



# The bidi Package

Source documentation for version 39.6

to my Master, *Ferdowsi The Great*

If you want to report any bugs or typos and corrections in the documentation, or ask for any new features, or suggest any improvements, or ask any questions about the package, then please use the issue tracker:

<https://github.com/kvafa/bidi/issues>

In doing so, please always explain your issue well enough, and always include a minimal working example showing the issue.

You may also have conversations, ask questions and post answers without opening issues using the Discussions space:

<https://github.com/kvafa/bidi/discussions>

The announcements for the new releases of the package will also appear in the Discussions space under the Announcements category.

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# The *bidi* Package

## Bidirectional typesetting in plain $\text{T}_{\text{E}}\text{X}$ and $\text{\LaTeX}$ , using $\text{XeT}_{\text{E}}\text{X}$ engine

Source documentation for [version 39.6](#)

Vafa Khalighi\*

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\*Thanks to the `bidi-tex` GitHub organization consisted of David Carlisle and other members of the  $\text{\LaTeX}$  team to maintain the package in the period 2018–2020.

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## 1 File amsart-xetex-bidi.def

```

1 \ProvidesFile{amsart-xetex-bidi.def}[2017/08/09 v1.1 bidi adaptations for amsart class for X
2 \def\tocline#1#2#3#4#5#6#7{\relax
3   \ifnum #1>\c@tocdepth % then omit
4   \else
5     \par \addpenalty\@secpenalty\addvspace{#2}%
6     \begingroup \hyphenpenalty\@M
7     \@ifempty{#4}{%
8       \@tempdima\csname r@tocindent\number#1\endcsname\relax
9     }{%
10      \@tempdima#4\relax
11    }%
12    \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\
13    \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
14    #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
15    \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
16    \nobreak
17    \endgroup
18  \fi}
19 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
20 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
21 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
22 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
23 \def\part{\@startsection{part}{0}%
24   \z@{\linespacing\@plus\linespacing}{.5\linespacing}%
25   {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
26 \def\right@footnoterule{%
27   \kern-.4\p@
28   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
29   \kern11\p@\kern-\footnotesep}
30 \def\left@footnoterule{\kern-.4\p@
31   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
32
33
34 \long\def\@footnotetext#1{%
35   \insert\footins{%
36     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
37     \reset@font%
38     \bidi@@footnotetext@font% \normalfont\footnotesize
39     \interlinepenalty\interfootnotelinepenalty
40     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
41     \floatingpenalty\@MM \hsize\columnwidth
42     \@parboxrestore \parindent\normalparindent \sloppy
43     \protected@edef\@currentlabel{%
44       \csname p@footnote\endcsname\@thefnmark}%
45     \@makefntext{%
46       \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}%
47
48 \long\def\@RTLfootnotetext#1{%
49   \insert\footins{%
50     \@RTLtrue%
51     \reset@font%
52     \bidi@@RTLfootnotetext@font% \normalfont\footnotesize

```



```

53 \interlinepenalty\interfootnotelinepenalty
54 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
55 \floatingpenalty\@MM \hsize\columnwidth
56 \@parboxrestore \parindent\normalparindent \sloppy
57 \protected@edef\@currentlabel{%
58 \csname p@footnote\endcsname\@thefnmark}%
59 \@makefnmark%
60 \rule{z@\footnotesep\ignorespaces#1\unskip\strut\par}}
61
62
63
64 \long\def\@LTRfootnotetext#1{%
65 \insert\footins{%
66 \RTLfalse%
67 \reset@font%
68 \bidi@LTRfootnotetext@font% \normalfont\footnotesize
69 \interlinepenalty\interfootnotelinepenalty
70 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
71 \floatingpenalty\@MM \hsize\columnwidth
72 \@parboxrestore \parindent\normalparindent \sloppy
73 \protected@edef\@currentlabel{%
74 \csname p@footnote\endcsname\@thefnmark}%
75 \@makefnmark%
76 \rule{z@\footnotesep\ignorespaces#1\unskip\strut\par}}}
77
78
79 \footdir@temp\footdir@ORG@bidi@amsart@footnotetext\@footnotetext{\bidi@footdir@footnote}%
80 \footdir@temp\footdir@ORG@bidi@amsart@RTLfootnotetext\@RTLfootnotetext{R}%
81 \footdir@temp\footdir@ORG@bidi@amsart@LTRfootnotetext\@LTRfootnotetext{L}%
82
83 \renewenvironment{thebibliography}[1]{%
84 \@bibtitlestyle
85 \normalfont\bibliofont\labelsep .5em\relax
86 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
87 \ifRTL\ifLTR\bibitems\@RTLfalse\else\fi\else\ifRTL\bibitems\@RTLtrue\else\fi\fi
88 \bidi@thebibliography@font@hook%
89 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
90 \leftmargin\labelwidth \advance\leftmargin\labelsep
91 \usecounter{enumiv}}%
92 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
93 \sfcode`\.=\@m
94 }{%
95 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
96 \endlist
97 }
98 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
99 \columnseprule{z@ \columnsep 35\p@
100 \@indextitlestyle
101 \thispagestyle{plain}%
102 \let\item\@idxitem
103 \parindent{z@ \parskip{z@ \@plus.3\p@}\relax
104 \ifRTL\raggedleft\else\raggedright\fi
105 \hyphenpenalty\@M
106 \footnotesize}

```



```

107 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
108 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
109 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
110 \def\maketitle{\par
111   \@topnum\z@ % this prevents figures from falling at the top of page 1
112   \@setcopyright
113   \thispagestyle{firstpage}% this sets first page specifications
114   \uppercase\nonmath\shorttitle
115   \ifx\@empty\shortauthors \let\shortauthors\shorttitle
116   \else \andify\shortauthors
117   \fi
118   \@maketitle@hook
119   \begingroup
120   \@maketitle
121   \toks@{\exp{\shortauthors}\@temptokena\exp{\shorttitle}}%
122   \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
123   \edef\@tempa{%
124     \@nx\markboth{\the\toks4
125       \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
126   \@tempa
127   \endgroup
128   \c@footnote\z@
129   \cleartopmattertags
130 }

```

## 2 File adjmulticol-xetex-bidi.def

```

131 \ProvidesFile{adjmulticol-xetex-bidi.def}[2015/04/25 v0.1 bidi adaptations for adjmulticol p
132 \def\adjmulticols#1#2#3{\col@number#1\relax
133   \def\@tempa{#2}%
134   \ifx\@tempa\@empty\adjmc@inner\z@\else\adjmc@inner#2\fi
135   \def\@tempa{#3}%
136   \ifx\@tempa\@empty\adjmc@outer\z@\else\adjmc@outer#3\fi
137   \ifnum\col@number<\@ne
138     \PackageWarning{adjmulticol}%
139       {Using '\number\col@number'
140        columns doesn't seem a good idea.^^J
141        I therefore use one columns instead}%
142     \col@number\@ne\fi
143   \ifnum\col@number>10
144     \PackageError{adjmulticol}%
145       {Too many columns}%
146       {Current implementation doesn't
147        support more than 10 columns.%
148       \MessageBreak
149        I therefore use 10 columns instead}%
150     \col@number10 \fi
151   \ifx\@footnotetext\mult@footnotetext\else
152     \let\orig@footnotetext\@footnotetext
153     \let\@footnotetext\mult@footnotetext
154   \fi
155   \ifx\@LTRfootnotetext\mult@LTRfootnotetext\else
156     \let\orig@LTRfootnotetext\@LTRfootnotetext
157     \let\@LTRfootnotetext\mult@LTRfootnotetext

```





```

158 \fi
159 \ifx\@RTLfootnotetext\mult@RTLfootnotetext\else
160 \let\orig@RTLfootnotetext\@RTLfootnotetext
161 \let\@RTLfootnotetext\mult@RTLfootnotetext
162 \fi
163 \@ifnextchar[\adjmult@cols{\adjmult@cols[]}]{}
164 \let\adjmc@page@sofar@orig=\page@sofar

```

### 3 File algorithm2e-xetex-bidi.def

```

165 \ProvidesFile{algorithm2e-xetex-bidi.def}[2018/09/23 v0.2 bidi adaptations for algorithm2e p
166 \expandafter\ifx\c@algocf@within\endcsname\relax% if \algocf@within doesn't exist
167 \else%
168 \renewcommand\thealgocf{\c@algocf@within\endcsname\@SepMark\@arabic\c@algocf}%
169 \fi
170 \@ifpackageloaded{color}{\relax}{%
171 \bidi@patchcmd{\@algocf@start}{\bgroup}{\relax}{%
172 \bgroup
173 \if@RTL
174 \beginR
175 \else
176 \beginL
177 \fi
178 }{}{}
179 \bidi@patchcmd{\@algocf@finish}{\egroup\end{lrbox}}{\relax}{%
180 \if@RTL
181 \endR
182 \else
183 \endL
184 \fi
185 \egroup
186 \end{lrbox}}%
187 }{}{}
188 \bidi@patchcmd{\algocf@makecaption}{\hbox}{\relax}{%
189 \if@RTL
190 \hboxR
191 \else
192 \hboxL
193 \fi
194 }{}{}
195 }

```

### 4 File amsbook-xetex-bidi.def

```

196 \ProvidesFile{amsbook-xetex-bidi.def}[2017/08/09 v1.2 bidi adaptations for amsbook class for
197 \def\@tocline#1#2#3#4#5#6#7{\relax
198 \ifnum #1>\c@tocdepth % then omit
199 \else
200 \par \addpenalty\@secpenalty\addvspace{#2}%
201 \begingroup \hyphenpenalty\@M
202 \@ifempty{#4}{\relax}{%
203 \@tempdima\c@tocindent\number#1\endcsname\relax
204 }{}%
205 \@tempdima#4\relax

```



```

206    }%
207    \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\
208    \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
209    #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
210    \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
211    \nobreak
212    \endgroup
213    \fi}
214 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
215 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
216 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
217 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
218 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
219 \columnseprule\z@ \columnsep 35\p@
220 \@indextitlestyle
221 \thispagestyle{plain}%
222 \let\item\@idxitem
223 \parindent\z@ \parskip\z@\@plus.3\p@\relax
224 \if@RTL\raggedleft\else\raggedright\fi
225 \hyphenpenalty\@M
226 \footnotesize}
227 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
228 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
229 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
230 \def\right@footnoterule{%
231 \kern-.4\p@
232 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
233 \kern11\p@\kern-\footnotesep}
234 \def\left@footnoterule{\kern-.4\p@
235 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
236
237 \long\def\@footnotetext#1{%
238 \insert\footins{%
239 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
240 \reset@font%
241 \bidi@@footnotetext@font% \normalfont\footnotesize
242 \interlinepenalty\interfootnotelinepenalty
243 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
244 \floatingpenalty\@MM \hsize\columnwidth
245 \@parboxrestore \parindent\normalparindent \sloppy
246 \protected@edef\@currentlabel{%
247 \csname p@footnote\endcsname\@thefnmark}%
248 \@makefnmark%
249 \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
250
251 \long\def\@RTLfootnotetext#1{%
252 \insert\footins{%
253 \@RTLtrue%
254 \reset@font%
255 \bidi@@RTLfootnotetext@font% \normalfont\footnotesize
256 \interlinepenalty\interfootnotelinepenalty
257 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
258 \floatingpenalty\@MM \hsize\columnwidth
259 \@parboxrestore \parindent\normalparindent \sloppy

```



```

260 \protected@edef\@currentlabel{%
261 \csname p@footnote\endcsname\@thefnmark}%
262 \@makefnfntext{%
263 \rule\z@{footnotesep\ignorespaces#1\unskip\strut\par}}
264
265
266 \long\def\@LTRfootnotetext#1{%
267 \insert\footins{%
268 \RTLfalse%
269 \reset@font%
270 \bidi@@LTRfootnotetext@font% \normalfont\footnotesize
271 \interlinepenalty\interfootnotelinepenalty
272 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
273 \floatingpenalty\@MM \hsize\columnwidth
274 \@parboxrestore \parindent\normalparindent \sloppy
275 \protected@edef\@currentlabel{%
276 \csname p@footnote\endcsname\@thefnmark}%
277 \@makefnfntext{%
278 \rule\z@{footnotesep\ignorespaces#1\unskip\strut\par}}}
279
280
281
282 \footdir@temp\footdir@ORG@bidi@amsbook@footnotetext\@footnotetext{\bidi@footdir@footnote}%
283 \footdir@temp\footdir@ORG@bidi@amsbook@RTLfootnotetext\@RTLfootnotetext{R}%
284 \footdir@temp\footdir@ORG@bidi@amsbook@LTRfootnotetext\@LTRfootnotetext{L}%
285
286 \renewenvironment{thebibliography}[1]{%
287 \@bibtitlestyle
288 \normalfont\bibliofont\labelsep .5em\relax
289 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
290 \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
291 \bidi@@thebibliography@font@hook%
292 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
293 \leftmargin\labelwidth \advance\leftmargin\labelsep
294 \usecounter{enumiv}}%
295 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
296 \sfcode`\.\@m
297 }{%
298 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
299 \endlist
300 }
301 \def\@makechapterhead#1{\global\topskip 7.5pc\relax
302 \begingroup
303 \fontsize{\@xivpt}{18}\bfseries\centering
304 \ifnum\c@secnumdepth>\m@ne
305 \leavevmode \hskip-\ifRTL\rightskip\else\leftskip\fi
306 \rlap{\vbox to\z@{\vss
307 \centerline{\normalsize\mdseries
308 \uppercase\@xp{\chaptername}\enspace\thechapter}
309 \vskip 3pc}}\hskip\ifRTL\rightskip\else\leftskip\fi\fi
310 #1\par \endgroup
311 \skip@34\p@ \advance\skip@-\normalbaselineskip
312 \vskip\skip@ }
313 \def\maketitle{\par

```



```

314 \@topnum\z@ % this prevents figures from falling at the top of page 1
315 \begingroup
316 \@maketitle
317 \endgroup
318 \c@footnote\z@
319 \def\do##1{\let##1\relax}%
320 \do\maketitle \do\@maketitle \do\title \do\@xtitle \do\@title
321 \do\author \do\@xauthor \do\address \do\@xaddress
322 \do\email \do\@xemail \do\curraddr \do\@xcurraddr
323 \do\dedicatory \do\@dedicatory \do\thanks \do\thankses
324 \do\keywords \do\@keywords \do\subjclass \do\@subjclass
325 }

```

## 5 File amsmath-xetex-bidi.def

```

326 \ProvidesFile{amsmath-xetex-bidi.def}[2020/05/16 v1.2 bidi adaptations for amsmath package f
327 \let\veqno=\eqno
328 \iftagsleft@ \let\veqno=\leqno \fi
329 \renewcommand{\numberwithin}[3][\arabic]{%
330   \ifundefined{c@#2}{\@nocounterr{#2}}{%
331     \ifundefined{c@#3}{\@nocnterr{#3}}{%
332       \@addtoreset{#2}{#3}%
333       \@xp\xdef\csname the#2\endcsname{%
334         \@xp\@nx\csname the#3\endcsname \@nx\@SepMark\@nx#1{#2}}}%
335   }
336 \def\tagform@#1{\maketag@@@{\if@nonlatin\beginR\fi(\kern\z@\ignorespaces#1\unskip\@italicco
337
338 \bidi@patchcmd\math@cr@@@align\place@tag{%
339   \place@tag
340   \else
341     \place@tag
342 }{}{}
343

```

## 6 File amstext-xetex-bidi.def

```

344 \ProvidesFile{amstext-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for amstext package f
345 \def\textdef@#1#2#3{\hbox{%
346   \everymath{#1}%
347   \let\fontsize#2\selectfont
348   \if@nonlatin\beginR\fi#3\if@nonlatin\endR\fi}}}

```

## 7 File amsthm-xetex-bidi.def

```

349 \ProvidesFile{amsthm-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for amsthm package for
350 \def\@thmcountersep{\@SepMark}

```

## 8 File array-xetex-bidi.def

```

351 \ProvidesFile{array-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for array package for X
352 \def\@testpach{\@chclass
353   \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
354   \ifnum \@lastchclass=7 5 \else
355   \ifnum \@lastchclass=8 \tw@ \else

```



```

356 \ifnum \@lastchclass=9 \thr@@
357 \else \z@
358 \ifnum \@lastchclass = 10 \else
359 \edef\@nextchar{\expandafter\string\@nextchar}%
360 \@chnum
361 \if \@nextchar c\z@ \else
362 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
363 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
364 \z@ \@chclass
365 \if\@nextchar |\@ne \else
366 \if \@nextchar !6 \else
367 \if \@nextchar @7 \else
368 \if \@nextchar <8 \else
369 \if \@nextchar >9 \else
370 10
371 \@chnum
372 \if \@nextchar m\thr@@\else
373 \if \@nextchar p4 \else
374 \if \@nextchar b5 \else
375 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi
376 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
377 \def\@tabular{%
378 \leavevmode
379 \hbox \bgroup\if@RTLtab\beginR \fi $\col@sep\tabc@sep \let\d@llarbegin\beginR
380 \let\d@llarend\endR
381 \@tabarray}
382 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
383 \expandafter\let\csname endtabular*\endcsname=\endtabular
384 \def\@array[#1]#2{%
385 \@tempdima \ht \strutbox
386 \advance \@tempdima by\extrarowheight
387 \setbox \@arstrutbox \hbox{\vrule
388 \@height \arraystretch \@tempdima
389 \@depth \arraystretch \dp \strutbox
390 \@width \z@}%
391 \beginR
392 \mkpream{#2}%
393 \xdef\@preamble{\noexpand \ialign \@halignto
394 \bgroup \@arstrut \@preamble
395 \tabskip \z@ \cr}%
396 \endgroup
397 \@arrayleft
398 \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi \fi
399 \bgroup
400 \let \sharp ##\let \protect \relax
401 \lineskip \z@
402 \baselineskip \z@
403 \m@th
404 \let\\\@arraycr \let\tabularnewline\\\let\par\@empty \if@RTLtab\hbox\bgroup\beginR\@hboxR
405 \def\@tabarray{\@ifnextchar{\@array}{\@array[c]}}
406 \def\endarray{\crrc \egroup\if@RTLtab\egroup\endR\egroup\fi \egroup \@arrayright \gdef\@preamble
407 \def\array{\col@sep\arraycolsep
408 \def\d@llarbegin{$}\let\d@llarend\d@llarbegin\gdef\@halignto{}}
409 \@RTLtabfalse\@tabarray}

```



## 9 File article-xetex-bidi.def

```

410 \ProvidesFile{article-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for standard article]
411 \if@titlepage
412   \renewcommand\maketitle{\begin{titlepage}%
413     \let\footnotesize\small
414     \let\right@footnoterule\relax
415     \let\left@footnoterule\relax
416     \let\textwidth@footnoterule\relax
417     \let\footnote\thanks
418     \let\LTRfootnote\LTRthanks
419     \let\RTLfootnote\RTLthanks
420     \null\vfil
421     \vskip 60\p@
422     \begin{center}%
423       {\LARGE \@title \par}%
424       \vskip 3em%
425       {\large
426         \lineskip .75em%
427         \begin{tabular}[t]{c}%
428           \@author
429         \end{tabular}\par}%
430       \vskip 1.5em%
431       {\large \@date \par}%           % Set date in \large size.
432     \end{center}\par
433     \@thanks
434     \vfil\null
435   \end{titlepage}%
436   \setcounter{footnote}{0}%
437   \global\let\thanks\relax
438   \global\let\LTRthanks\relax
439   \global\let\RTLthanks\relax
440   \global\let\maketitle\relax
441   \global\let\@thanks\@empty
442   \global\let\@author\@empty
443   \global\let\@date\@empty
444   \global\let\@title\@empty
445   \global\let\title\relax
446   \global\let\author\relax
447   \global\let\date\relax
448   \global\let\and\relax
449 }
450 \else
451 \renewcommand\maketitle{\par
452   \begingroup
453     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
454     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
455     \long\def\@makefntext##1{\parindent 1em\noindent
456       \hb@xt@1.8em{%
457         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
458     \if@twocolumn
459       \ifnum \col@number=\@ne
460         \@maketitle
461       \else

```



```

462     \twocolumn[\@maketitle]%
463     \fi
464   \else
465     \newpage
466     \global\@topnum\z@   % Prevents figures from going at top of page.
467     \@maketitle
468     \fi
469     \thispagestyle{plain}\@thanks
470   \endgroup
471   \setcounter{footnote}{0}%
472   \global\let\thanks\relax
473   \global\let\LTRthanks\relax
474   \global\let\RTLthanks\relax
475   \global\let\maketitle\relax
476   \global\let\@maketitle\relax
477   \global\let\@thanks\@empty
478   \global\let\@author\@empty
479   \global\let\@date\@empty
480   \global\let\@title\@empty
481   \global\let\title\relax
482   \global\let\author\relax
483   \global\let\date\relax
484   \global\let\and\relax
485 }
486 \def\@maketitle{%
487   \newpage
488   \null
489   \vskip 2em%
490   \begin{center}%
491     \let \footnote \thanks
492     \let \LTRfootnote \LTRthanks
493     \let \RTLfootnote \RTLthanks
494     {\LARGE \@title \par}%
495     \vskip 1.5em%
496     {\large
497       \lineskip .5em%
498       \begin{tabular}[t]{c}%
499         \@author
500       \end{tabular}\par}%
501     \vskip 1em%
502     {\large \@date}%
503   \end{center}%
504   \par
505   \vskip 1.5em}
506 \fi
507 \renewcommand*{\l@part[2]}{%
508   \ifnum \c@tocdepth >-2\relax
509     \addpenalty\@secpenalty
510     \addvspace{2.25em \@plus\p@}%
511     \setlength\@tempdima{3em}%
512     \begin{group}
513       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
514       \parfillskip -\@pnumwidth
515       {\leavevmode

```



```

516      \large \bfseries #1\hfil \hb@xt@{\pnumwidth{\hss #2}}\par
517      \nobreak
518      \ifcompatibility
519        \global\@nobreaktrue
520        \everypar{\global\@nobreakfalse\everypar{}}%
521      \fi
522    \endgroup
523  \fi}
524 \renewcommand*\l@section[2]{%
525   \ifnum \c@tocdepth >\z@
526     \addpenalty\@secpenalty
527     \addvspace{1.0em \@plus\p@}%
528     \setlength\@tempdima{1.5em}%
529     \begingroup
530       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
531       \parfillskip -\@pnumwidth
532       \leavevmode \bfseries
533       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
534       \hskip -\if@RTL\rightskip\else\leftskip\fi
535       #1\nobreak\hfil \nobreak\hb@xt@{\pnumwidth{\hss #2}}\par
536     \endgroup
537   \fi}
538 \renewcommand\left@footnoterule{%
539   \kern-3\p@
540   \hrule\@width.4\columnwidth
541   \kern2.6\p@}
542 \renewcommand\right@footnoterule{%
543   \kern-3\p@
544   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
545   \kern2.6\p@}
546 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
547 \renewcommand\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
548 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
549 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
550 \def\@part[#1]#2{%
551   \ifnum \c@secnumdepth >\m@ne
552     \refstepcounter{part}%
553     \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
554   \else
555     \addcontentsline{toc}{part}{#1}%
556   \fi
557   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
558    \interlinepenalty \@M
559    \normalfont
560    \ifnum \c@secnumdepth >\m@ne
561      \Large\bfseries \partname\nobreakspace\thepart
562      \par\nobreak
563    \fi
564    \huge \bfseries #2%
565    \markboth{}{}\par}%
566   \nobreak
567   \vskip 3ex
568   \@afterheading}
569 \renewenvironment{thebibliography}[1]

```





```

570 {\section*{\refname}%
571 \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
572 \ifRTL\ifLTRbibitems\RTLfalse\else\fi\else\ifRTLbibitems\RTLtrue\else\fi\fi
573 \bidi@thebibliography@font@hook%
574 \list{\@biblabel{\@arabic\c@enumiv}}%
575 {\settowidth\labelwidth{\@biblabel{#1}}%
576 \leftmargin\labelwidth
577 \advance\leftmargin\labelsep
578 \@openbib@code
579 \usecounter{enumiv}%
580 \let\p@enumiv\@empty
581 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
582 \sloppy
583 \clubpenalty4000
584 \@clubpenalty \clubpenalty
585 \widowpenalty4000%
586 \sfcode\~.\@m}
587 {\def\@noitemerr
588 {\@latex@warning{Empty `thebibliography' environment}}}%
589 \endlist}
590 \renewenvironment{theindex}
591 {\if@twocolumn
592 \@restonecolfalse
593 \else
594 \@restonecoltrue
595 \fi
596 \columnseprule \z@
597 \columnsep 35\p@
598 \twocolumn[\section*{\indexname}]%
599 \mkboth{\MakeUppercase\indexname}%
600 {\MakeUppercase\indexname}%
601 \thispagestyle{plain}\parindent\z@
602 \parskip\z@ \@plus .3\p@\relax
603 \let\item\@idxitem}
604 {\if@restonecol\onecolumn\else\clearpage\fi}

```

## 10 File artikel1-xetex-bidi.def

```

605 \ProvidesFile{artikel1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel1 class f
606 \renewenvironment{theindex}{%
607 \if@twocolumn
608 \@restonecolfalse
609 \else
610 \@restonecoltrue
611 \fi
612 \columnseprule \z@
613 \columnsep 35\p@
614 \twocolumn[\section*{\indexname}]%
615 \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
616 \thispagestyle{plain}\parindent\z@
617 \parskip\z@ \@plus .3\p@\relax
618 \let\item\@idxitem
619 }{%
620 \if@restonecol\onecolumn\else\clearpage\fi}

```



```

621 \renewcommand*\head@style{%
622     \interlinepenalty \@M
623     \hyphenpenalty=\@M \exhyphenpenalty=\@M
624     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
625 \if@titlepage
626     \renewenvironment{abstract}{%
627         \titlepage
628         \null\vfil
629         \section*{\SectFont\abstractname}
630         \noindent\ignorespaces}
631     {\par\vfil\null\endtitlepage}
632 \else
633     \renewenvironment{abstract}{%
634         \if@twocolumn
635             \section*{\abstractname}%
636         \else
637             \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
638             \section*{\small\SectFont\abstractname}%
639             \noindent\ignorespaces
640             \fi}
641     {\if@twocolumn\else\par\egroup\fi}
642 \fi
643 \renewcommand*\@regtocline[3]{%
644     \ifnum #1>\c@tocdepth
645     \else
646         \vskip\z@\@plus.2\p@
647         {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
648         \if@RTL\rightskip\else\leftskip\fi\unitindent
649         \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
650         \parfillskip\z@
651         \@tempdima\unitindent
652         \parindent\z@
653         \leavevmode
654         \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
655         \hskip 1em \nobreak{\slshape #3}\par
656         }%
657     \fi}
658 \if@oldtoc
659 \renewcommand*\l@part[2]{%
660     \ifnum \c@tocdepth >-2\relax
661         \addpenalty\@secpenalty
662         \addvspace{2.25em \@plus\p@}%
663         \begingroup
664             \setlength\@tempdima{3em}%
665             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
666             \parfillskip -\@pnumwidth
667             {\leavevmode
668                 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
669                 \nobreak
670                 \if@compatibility
671                     \global\@nobreaktrue
672                     \everypar{\global\@nobreakfalse\everypar{}}%
673             \fi
674         \endgroup

```



```

675 \fi}
676 \else
677 \renewcommand*\l@part{%
678 \ifnum \c@tocdepth >-2\relax
679 \addpenalty\@secpenalty
680 \addvspace{2.25em \@plus \p@}%
681 \@regtocline{0}%
682 \fi}
683 \fi
684 \if@oldtoc
685 \renewcommand*\l@section[2]{%
686 \addpenalty\@secpenalty
687 \addvspace{1.0em \@plus \p@}%
688 \setlength\@tempdima{1.5em}%
689 \begingroup
690 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
691 \parfillskip -\@pnumwidth
692 \leavevmode \bfseries
693 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
694 \hskip -\if@RTL\rightskip\else\leftskip\fi
695 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
696 \endgroup}
697 \else
698 \renewcommand*\l@section{\@regtocline{1}}
699 \fi
700 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
701 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
702 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
703 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
704 \renewenvironment{thebibliography}[1]
705 {\section*\refname}%
706 \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
707 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
708 \bidi\@thebibliography@font@hook%
709 \list{\@biblabel{\@arabic\c@enumiv}}%
710 {\settowidth\labelwidth{\@biblabel{#1}}%
711 \leftmargin\labelwidth
712 \advance\leftmargin\labelsep
713 \@openbib@code
714 \usecounter{enumiv}%
715 \let\p@enumiv\@empty
716 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
717 \sloppy\clubpenalty4000\widowpenalty4000%
718 \sfcode`. \@m}
719 {\def\@noitemerr
720 {\@latex@warning{Empty `thebibliography' environment}}}%
721 \endlist}
722 \renewcommand*\left@footnoterule{%
723 \kern-3\p@
724 \kern.5\baselineskip
725 \hrule\@width\unitindent
726 \kern.4\baselineskip
727 }
728 \renewcommand*\right@footnoterule{%

```



```

729 \kern-3\p@
730 \kern.5\baselineskip
731 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
732 \kern.4\baselineskip}
733 \if@titlepage
734 \renewcommand*{\TitleFont{\rmfamily}
735 \renewcommand*{\maketitle{%
736 \begin{titlepage}%
737 \let\footnotesize\small
738 \let\right@footnoterule\relax
739 \let\left@footnoterule\relax
740 \let\textwidth\footnoterule\relax
741 \let \footnote \thanks
742 \long\def\@makefntext##1{\parindent\z@
743 \def\labelitemi{\textendash}\@revlabeltrue
744 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
745 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
746 \if@compatibility\setcounter{page}{0}\fi
747 \null\vfil
748 \vskip 60\p@
749 \begin{center}%
750 \TitleFont
751 {\LARGE \def\{\{\penalty -\@M}
752 \if@allcaps
753 \expandafter\uc@nothanks\@title\thanks\relax
754 \else
755 \@title
756 \fi\par}%
757 \vskip 3em%
758 {\large
759 \lineskip .75em \parindent\z@
760 \begin{tabular}[t]{c}%
761 \if@allcaps
762 \expandafter\uc@authornothanks\@author\and\relax
763 \else
764 \@author
765 \fi
766 \end{tabular}\par}%
767 \vskip 1.5em%
768 {\large
769 \if@allcaps
770 \uppercase\expandafter{\@date}%
771 \else
772 \@date
773 \fi\par}%
774 \end{center}\par
775 \@thanks
776 \vfil\null
777 \end{titlepage}%
778 \setcounter{footnote}{0}%
779 \global\let\thanks\relax
780 \global\let\maketitle\relax
781 \global\let\@thanks\@empty
782 \global\let\@author\@empty

```



```

783 \global\let\@title\@empty
784 \global\let\@date\@empty
785 \global\let\title\relax
786 \global\let\author\relax
787 \global\let\date\relax
788 \global\let\and\relax
789 }
790 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
791 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
792 \futurelet\@tempa\uc@ax}
793 \def\uc@ax{%
794 \ifx\@tempa\relax
795 \else
796 \\\andname \\\expandafter\uc@authornothanks
797 \fi}
798 \def\uc@tx{\ifx\@tempa\relax
799 \else \expandafter\uc@ty \fi}
800 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
801 \else
802 \renewcommand*\maketitle{\par
803 \begingroup
804 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
805 \def\@makefnmark{\rlap{%
806 \@textsuperscript{\normalfont\@thefnmark}}}%
807 \long\def\@makefntext{\@xm@kefntext{%
808 \@textsuperscript{\normalfont\@thefnmark}}}%
809 \iftwocolumn
810 \ifnum \col@number=\@ne
811 \@maketitle
812 \else
813 \twocolumn[\@maketitle]%
814 \fi
815 \else
816 \newpage
817 \global\@topnum\z@
818 \@maketitle
819 \fi
820 \thispagestyle{plain}\@thanks
821 \endgroup
822 \setcounter{footnote}{0}%
823 \global\let\thanks\relax
824 \global\let\maketitle\relax
825 \global\let\@maketitle\relax
826 \global\let\@thanks\@empty
827 \global\let\@author\@empty
828 \global\let\@title\@empty
829 \global\let\@date\@empty
830 \global\let\title\relax
831 \global\let\author\relax
832 \global\let\date\relax
833 \global\let\and\relax
834 }
835 \def\@maketitle{%
836 \newpage

```



```

837 \null
838 \vskip 2em%
839 \begin{center}%
840   \let \footnote \thanks
841   {\LARGE \TitleFont \@title \par}%
842   \vskip 1.5em%
843   {\large \TitleFont
844     \lineskip .5em%
845     \begin{tabular}[t]{c}%
846       \@author
847     \end{tabular}\par}%
848   \vskip 1em%
849   {\large \TitleFont \@date}%
850 \end{center}%
851 \par
852 \vskip 1.5em}
853 \fi

```

## 11 File artikel2-xetex-bidi.def

```

854 \ProvidesFile{artikel2-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel2 class f
855 \renewenvironment{theindex}{%
856   \if@twocolumn
857     \@restonecolfalse
858   \else
859     \@restonecoltrue
860   \fi
861   \columnseprule \z@
862   \columnsep 35\p@
863   \twocolumn[\section*{\indexname}]%
864   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
865   \thispagestyle{plain}\parindent\z@
866   \parskip\z@ \@plus .3\p@\relax
867   \let\item\@idxitem
868 }{%
869   \if@restonecol\onecolumn\else\clearpage\fi}
870 \renewcommand*{\@regtocline}[3]{%
871   \ifnum #1>\c@tocdepth
872   \else
873     \vskip\z@ \@plus.2\p@
874     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
875       \if@RTL\righskip\else\leftskip\fi\unitindent
876       \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
877       \parfillskip\z@
878       \@tempdima\unitindent
879       \advance\@tempdima by \othermargin
880       \parindent\z@
881       \leavevmode
882       \hbox{\hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
883         \hskip 1em \nobreak{\slshape #3}\par
884       }%
885   \fi}
886 \if@oldtoc
887 \renewcommand*\l@section[2]{%

```



```

888 \addpenalty\@secpenalty
889 \addvspace{1.0em \@plus\p@}%
890 \setlength\@tempdima{1.5em}%
891 \begingroup
892 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
893 \parfillskip -\@pnumwidth
894 \leavevmode \bfseries
895 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
896 \hskip -\if@RTL\rightskip\else\leftskip\fi
897 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
898 \endgroup}
899 \else
900 \renewcommand*\l@section{\@regtocline{1}}
901 \fi
902 \if@oldtoc
903 \renewcommand*\l@part[2]{%
904 \ifnum \c@tocdepth >-2\relax
905 \addpenalty\@secpenalty
906 \addvspace{2.25em \@plus\p@}%
907 \begingroup
908 \setlength\@tempdima{3em}%
909 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
910 \parfillskip -\@pnumwidth
911 {\leavevmode
912 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
913 \nobreak
914 \if@compatibility
915 \global\@nobreaktrue
916 \everypar{\global\@nobreakfalse\everypar{}}%
917 \fi
918 \endgroup
919 \fi}
920 \else
921 \renewcommand*\l@part{%
922 \ifnum \c@tocdepth >-2\relax
923 \addpenalty\@secpenalty
924 \addvspace{2.25em \@plus \p@}%
925 \@regtocline{0}%
926 \fi}
927 \fi
928 \renewcommand*\head@style{%
929 \interlinepenalty \@M
930 \hyphenpenalty=\@M \exhyphenpenalty=\@M
931 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
932 \if@titlepage
933 \renewenvironment{abstract}{%
934 \titlepage
935 \null\vfil
936 \section*{\SectFont\abstractname}%
937 \noindent\ignorespaces}
938 {\par\vfil\null\endtitlepage}
939 \else
940 \renewenvironment{abstract}{%
941 \if@twocolumn

```



```

942     \section*{\abstractname}%
943 \else
944     \section*{\hskip\unitindent\small\SectFont\abstractname}%
945     \list*{\setlength\listparindent{\unitindent}%
946           \setlength\parindent    {\z@}%
947           \setlength\leftmargin   {\unitindent}%
948           \setlength\rightmargin  {\unitindent}%
949           \setlength\parsep      {\z@}}%
950     \item[]%
951 \fi}
952 {\if@twocolumn\else\par\endlist\fi}
953 \fi
954 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
955 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
956 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
957 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
958 \renewcommand*\left@footnoterule{%
959   \kern-3\p@
960   \hrule\@width 3\unitindent
961   \kern 2.6\p@
962 }
963 \renewcommand*\right@footnoterule{%
964   \kern-3\p@
965   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-3\unitindent\relax \hrulefill }
966   \kern 2.6\p@}
967 \renewenvironment{thebibliography}[1]
968   {\section*{\refname}%
969     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
970     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
971     \bidi@thebibliography@font@hook%
972     \list{\@biblabel{\@arabic\c@enumiv}}%
973           {\settowidth\labelwidth{\@biblabel{#1}}%
974           \leftmargin\labelwidth
975           \advance\leftmargin\labelsep
976           \@openbib@code
977           \usecounter{enumiv}%
978           \let\p@enumiv\@empty
979           \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
980     \sloppy\clubpenalty4000\widowpenalty4000%
981     \sfcode\`.\@m}
982 {\def\@noitemerr
983   {\@latex@warning{Empty `thebibliography' environment}}}%
984 \endlist}
985 \if@titlepage
986 \renewcommand*\TitleFont{\rmfamily}
987 \renewcommand*\maketitle{%
988   \begin{titlepage}%
989     \let\footnotesize\small
990     \let\right@footnoterule\relax
991     \let\left@footnoterule\relax
992     \let\textwidth\footnoterule\relax
993     \let \footnote \thanks
994     \long\def\@makefntext##1{\parindent\z@
995       \def\labelitemi{\textendash}\@revlabeltrue

```





```

996      \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
997      \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
998      \if@compatibility\setcounter{page}{0}\fi
999      \null\vfil
1000     \vskip 60\p@
1001     \begin{center}%
1002       \TitleFont
1003       {\LARGE \def\\{\penalty -\@M}
1004         \if@allcaps
1005           \expandafter\uc@nothanks\@title\thanks\relax
1006         \else
1007           \@title
1008           \fi\par}%
1009     \vskip 3em%
1010     {\large
1011       \lineskip .75em \parindent\z@
1012       \begin{tabular}[t]{c}%
1013         \if@allcaps
1014           \expandafter\uc@authornothanks\@author\and\relax
1015         \else
1016           \@author
1017         \fi
1018       \end{tabular}\par}%
1019     \vskip 1.5em%
1020     {\large
1021       \if@allcaps
1022         \uppercase\expandafter{\@date}%
1023       \else
1024         \@date
1025       \fi\par}%
1026     \end{center}\par
1027     \@thanks
1028     \vfil\null
1029   \end{titlepage}%
1030   \setcounter{footnote}{0}%
1031   \global\let\thanks\relax
1032   \global\let\maketitle\relax
1033   \global\let\@thanks\@empty
1034   \global\let\@author\@empty
1035   \global\let\@title\@empty
1036   \global\let\@date\@empty
1037   \global\let\title\relax
1038   \global\let\author\relax
1039   \global\let\date\relax
1040   \global\let\and\relax
1041 }
1042 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1043 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1044   \futurelet\@tempa\uc@ax}
1045 \def\uc@ax{%
1046   \ifx\@tempa\relax
1047   \else
1048     \ \andname \ \ \expandafter\uc@authornothanks
1049   \fi}

```



```

1050 \def\uc@tx{\ifx\@tempa\relax
1051     \else \expandafter\uc@ty \fi}
1052 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1053 \else
1054 \renewcommand*\maketitle{\par
1055     \begingroup
1056     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1057     \long\def\@makefntext##1{\parindent\z@
1058         \def\labelitemi{\textendash}%
1059         \leavevmode\hb@xt@.5\unitindent{%
1060             \@textsuperscript{\normalfont\@thefnmark}\hfil}##1}
1061     \if@twocolumn
1062         \ifnum \col@number=\@one
1063             \@maketitle
1064         \else
1065             \twocolumn[\@maketitle]%
1066         \fi
1067     \else
1068         \newpage
1069         \global\@topnum\z@
1070         \@maketitle
1071     \fi
1072     \thispagestyle{plain}\@thanks
1073 \endgroup
1074 \setcounter{footnote}{0}%
1075 \global\let\thanks\relax
1076 \global\let\maketitle\relax
1077 \global\let\@maketitle\relax
1078 \global\let\@thanks\@empty
1079 \global\let\@author\@empty
1080 \global\let\@title\@empty
1081 \global\let\@date\@empty
1082 \global\let\title\relax
1083 \global\let\author\relax
1084 \global\let\date\relax
1085 \global\let\and\relax
1086 }
1087 \def\@maketitle{%
1088     \newpage
1089     \null
1090     \vskip 2em%
1091     \begin{center}%
1092         \let \footnote \thanks
1093         {\LARGE \TitleFont \@title \par}%
1094         \vskip 1.5em%
1095         {\large \TitleFont
1096             \lineskip .5em%
1097             \begin{tabular}[t]{c}%
1098                 \@author
1099             \end{tabular}\par}%
1100         \vskip 1em%
1101         {\large \TitleFont \@date}%
1102     \end{center}%
1103     \par

```



```

1104 \vskip 1.5em}
1105 \fi

```

## 12 File artikel3-xetex-bidi.def

```

1106 \ProvidesFile{artikel3-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for artikel3 class f
1107 \renewenvironment{theindex}{\%
1108 \if@twocolumn
1109 \@restonecolfalse
1110 \else
1111 \@restonecoltrue
1112 \fi
1113 \columnseprule \z@
1114 \columnsep 35\p@
1115 \twocolumn[\section*{\indexname}]\%
1116 \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}\%
1117 \thispagestyle{plain}\parindent\z@
1118 \parskip\z@ \@plus .3\p@\relax
1119 \let\item\@idxitem
1120 }\%
1121 \if@restonecol\onecolumn\else\clearpage\fi}
1122 \renewcommand*{\head@style}{\%
1123 \interlinepenalty \@M
1124 \hyphenpenalty=\@M \exhyphenpenalty=\@M
1125 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
1126 \renewcommand*{\regtocline}[3]{\%
1127 \ifnum #1>\c@tocdepth
1128 \else
1129 \vskip\z@\@plus.2\p@
1130 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
1131 \if@RTL\rightskip\else\leftskip\fi\unitindent
1132 \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
1133 \parfillskip\z@
1134 \@tempdima\unitindent
1135 \parindent\z@
1136 \leavevmode
1137 \hbox{\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
1138 \hskip 1em \nobreak{\slshape #3}\par
1139 }\%
1140 \fi}
1141 \if@oldtoc
1142 \renewcommand*{\l@part}[2]{\%
1143 \ifnum \c@tocdepth >-2\relax
1144 \addpenalty\@secpenalty
1145 \addvspace{2.25em \@plus\p@}\%
1146 \begingroup
1147 \setlength{\tempdima}{3em}\%
1148 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1149 \parfillskip -\@pnumwidth
1150 {\leavevmode
1151 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
1152 \nobreak
1153 \if@compatibility
1154 \global\@nobreaktrue

```



```

1155     \everypar{\global\@nobreakfalse\everypar{}}%
1156     \fi
1157   \endgroup
1158 \fi}
1159 \else
1160   \renewcommand*\l@part{%
1161     \ifnum \c@tocdepth >-2\relax
1162       \addpenalty\@secpenalty
1163       \addvspace{2.25em \@plus \p@}%
1164       \@regtocline{0}%
1165     \fi}
1166 \fi
1167
1168 \if@oldtoc
1169 \renewcommand*\l@section[2]{%
1170   \addpenalty\@secpenalty
1171   \addvspace{1.0em \@plus \p@}%
1172   \setlength\@tempdima{1.5em}%
1173   \begingroup
1174   \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1175   \parfillskip -\@pnumwidth
1176   \leavevmode \bfseries
1177   \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
1178   \hskip -\if@RTL\rightskip\else\leftskip\fi
1179   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
1180   \endgroup}
1181 \else
1182   \renewcommand*\l@section{\@regtocline{1}}
1183 \fi
1184 \if@titlepage
1185   \renewenvironment{abstract}{%
1186     \titlepage
1187     \null\vfil
1188     \section*{\SectFont\abstractname}%
1189     \noindent\ignorespaces}
1190     {\par\vfil\null\endtitlepage}
1191 \else
1192   \renewenvironment{abstract}{%
1193     \if@twocolumn
1194       \section*{\abstractname}%
1195     \else
1196       \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
1197       \section*{\small\SectFont\abstractname}%
1198       \noindent\ignorespaces
1199     \fi}
1200     {\if@twocolumn\else\par\egroup\fi}
1201 \fi
1202 \renewcommand*\left@footnoterule{%
1203   \kern-3\p@
1204   \kern.5\baselineskip
1205   \hrule\@width\unitindent
1206   \kern.4\baselineskip
1207 }
1208 \renewcommand*\right@footnoterule{%

```



```

1209 \kern-3\p@
1210 \kern.5\baselineskip
1211 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
1212 \kern.4\baselineskip}
1213 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@section}
1214 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1215 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1216 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1217 \renewenvironment{thebibliography}[1]
1218     {\section*\refname}%
1219     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1220     \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
1221     \bidi@thebibliography@font@hook%
1222     \list{\@biblabel{\@arabic\c@enumiv}}%
1223         {\settowidth\labelwidth{\@biblabel{#1}}%
1224         \leftmargin\labelwidth
1225         \advance\leftmargin\labelsep
1226         \@openbib@code
1227         \usecounter{enumiv}%
1228         \let\p@enumiv\@empty
1229         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1230     \sloppy\clubpenalty4000\widowpenalty4000%
1231     \sfcode`. \@m}
1232     {\def\@noitemerr
1233     {\@latex@warning{Empty `thebibliography' environment}}}%
1234     \endlist}
1235 \if@titlepage
1236 \renewcommand*\TitleFont{\rmfamily}
1237 \renewcommand*\maketitle{%
1238 \begin{titlepage}%
1239 \let\footnotesize\small
1240 \let\right@footnoterule\relax
1241 \let\left@footnoterule\relax
1242 \let\textwidth\footnoterule\relax
1243 \let \footnote \thanks
1244 \long\def\@makefntext##1{\parindent\z@
1245 \def\labelitemi{\textendash}\@revlabeltrue
1246 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1247 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1248 \if@compatibility\setcounter{page}{0}\fi
1249 \null\vfil
1250 \vskip 60\p@
1251 \begin{center}%
1252 \TitleFont
1253 {\LARGE \def\{\penalty -\@M}
1254 \if@allcaps
1255 \expandafter\uc@nothanks\@title\thanks\relax
1256 \else
1257 \@title
1258 \fi\par}%
1259 \vskip 3em%
1260 {\large
1261 \lineskip .75em \parindent\z@
1262 \begin{tabular}[t]{c}%

```



```

1263         \if@allcaps
1264         \expandafter\uc@authornothanks \@author\and\relax
1265         \else
1266         \@author
1267         \fi
1268     \end{tabular}\par}%
1269     \vskip 1.5em%
1270     {\large
1271     \if@allcaps
1272     \uppercase\expandafter{\@date}%
1273     \else
1274     \@date
1275     \fi\par}%
1276     \end{center}\par
1277     \@thanks
1278     \vfil\null
1279 \end{titlepage}%
1280 \setcounter{footnote}{0}%
1281 \global\let\thanks\relax
1282 \global\let\maketitle\relax
1283 \global\let\@thanks\@empty
1284 \global\let\@author\@empty
1285 \global\let\@title\@empty
1286 \global\let\@date\@empty
1287 \global\let\title\relax
1288 \global\let\author\relax
1289 \global\let\date\relax
1290 \global\let\and\relax
1291 }
1292 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1293 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1294     \futurelet\@tempa\uc@ax}%
1295 \def\uc@ax{%
1296     \ifx\@tempa\relax
1297     \else
1298     \ \andname \ \ \expandafter\uc@authornothanks
1299     \fi}
1300 \def\uc@tx{\ifx\@tempa\relax
1301     \else \expandafter\uc@ty \fi}
1302 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1303 \else
1304 \renewcommand*\maketitle{\par
1305     \begin{group}
1306     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1307     \def\@makefnmark{\rlap{%
1308         \@textsuperscript{\normalfont\@thefnmark}}}%
1309     \long\def\@makefntext{\@xmakefntext{%
1310         \@textsuperscript{\normalfont\@thefnmark}}}%
1311     \if@twocolumn
1312     \ifnum \col@number=\@ne
1313     \ @maketitle
1314     \else
1315     \twocolumn[\@maketitle]%
1316     \fi

```



```

1317 \else
1318 \newpage
1319 \global\@topnum\z@
1320 \@maketitle
1321 \fi
1322 \thispagestyle{plain}\@thanks
1323 \endgroup
1324 \setcounter{footnote}{0}%
1325 \global\let\thanks\relax
1326 \global\let\maketitle\relax
1327 \global\let\@maketitle\relax
1328 \global\let\@thanks\@empty
1329 \global\let\@author\@empty
1330 \global\let\@title\@empty
1331 \global\let\@date\@empty
1332 \global\let\title\relax
1333 \global\let\author\relax
1334 \global\let\date\relax
1335 \global\let\and\relax
1336 }
1337 \def\@maketitle{%
1338 \newpage
1339 \null
1340 \vskip 2em%
1341 \if@titlecentered
1342 \begin{center}%
1343 \let \footnote \thanks
1344 {\LARGE \TitleFont \@title \par}%
1345 \vskip 1.5em%
1346 {\large \TitleFont
1347 \lineskip .5em%
1348 \begin{tabular}[t]{c}%
1349 \@author
1350 \end{tabular}\par}%
1351 \vskip 1em%
1352 {\large \TitleFont \@date}%
1353 \end{center}%
1354 \else
1355 {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
1356 {\large \TitleFont \lineskip .5em \tabcolsep\z@
1357 \def\and{%% \begin{tabular} has already started
1358 \end{tabular}\hskip 1em plus .17fil
1359 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabular}
1360 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}
1361 \vskip 1em {\large \TitleFont \@date}
1362 \fi
1363 \par
1364 \vskip 1.5em}
1365 \fi

```

### 13 File arydshln-xetex-bidi.def

```

1366 \ProvidesFile{arydshln-xetex-bidi.def}[2010/08/01 v0.2 bidi adaptations for arydshln package]
1367 \def\endarray{\adl@endarray \egroup \adl@arrayrestore \if@RTL\begin{array}\endR\egroup\fi\egroup

```



```

1368 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
1369 \expandafter\let\csname endtabular*\endcsname\endtabular
1370 \let\adl@array\@array
1371 \def\@array{\adl@everyvbox\everyvbox
1372     \everyvbox{\adl@arrayinit \the\adl@everyvbox \everyvbox\adl@everyvbox}%
1373     \ifadl@inactive \adl@inactivate \else \adl@activate \fi
1374     \let\adl@noalign\noalign
1375     \adl@array}
1376 \ifadl@usingarypkg
1377 \def\@testpach{\@chclass
1378 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
1379 \ifnum \@lastchclass=7 5 \else
1380 \ifnum \@lastchclass=8 \tw@ \else
1381 \ifnum \@lastchclass=9 \thr@@
1382 \else \z@
1383 \ifnum \@lastchclass = 10 \else
1384 \edef\@nextchar{\expandafter\string\@nextchar}%
1385 \@chnum
1386 \if \@nextchar c\z@ \else
1387 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
1388 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
1389 \z@ \@chclass
1390 \if \@nextchar |\@ne \let\@arrayrule\adl@arrayrule \else
1391 \if \@nextchar : \@ne \let\@arrayrule\adl@arraydashrule \else
1392 \if \@nextchar ; \@ne \let\@arrayrule\adl@argarraydashrule \else
1393 \if \@nextchar !6 \else
1394 \if \@nextchar @7 \else
1395 \if \@nextchar <8 \else
1396 \if \@nextchar >9 \else
1397 10
1398 \@chnum
1399 \if \@nextchar m\thr@@\else
1400 \if \@nextchar p4 \else
1401 \if \@nextchar b5 \else
1402 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi
1403 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1404
1405 \def\@classz{\@classx
1406     \@tempcnta \count@
1407     \prepnext@tok
1408     \@addtopreamble{\ifcase \@chnum
1409         \hfil
1410         \adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1411         \hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1412         \hfil\hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\or
1413         \setbox\adl@box\hbox \adl@startmbox{\@nextchar}\insert@column
1414         \adl@endmbox\or
1415         \setbox\adl@box\vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
1416         \setbox\adl@box\vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1417         \fi}\prepnext@tok}
1418 \def\adl@class@start{4}
1419 \def\adl@class@iiiorvii{7}
1420
1421 \else

```





```

1422 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4\relax \else
1423     \ifnum \@lastchclass=\thr@@ 5\relax \else
1424         \z@ \if #1c\@chnum \z@ \else
1425             \if \if@RTLtab#1r\else#1l\fi\@chnum \@one \else
1426             \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
1427         \@chclass
1428             \if #1|\@one \let\@arrayrule\adl@arrayrule \else
1429             \if #1:\@one \let\@arrayrule\adl@arraydashrule \else
1430             \if #1;\@one \let\@arrayrule\adl@argarraydashrule \else
1431             \if #1@ \tw@ \else
1432             \if #1p\thr@@ \else \z@ \@preamerr 0\fi
1433     \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1434
1435 \def\@arrayclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1436     \or \or \@addamp \or
1437     \@acolampacol \or \@firststampfalse \@acol \fi
1438     \edef\@preamble{\@preamble
1439         \ifcase \@chnum
1440             \hfil\adl@putlrc{\$ \relax \@sharp\$}\hfil
1441             \or \adl@putlrc{\$ \relax \@sharp\$}\hfil
1442             \or \hfil\adl@putlrc{\$ \relax \@sharp\$}\fi}}
1443 \def\@tabclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1444     \or \or \@addamp \or
1445     \@acolampacol \or \@firststampfalse \@acol \fi
1446     \edef\@preamble{\@preamble
1447         \ifcase \@chnum
1448             \hfil\adl@putlrc{\@sharp\unskip}\hfil
1449             \or \adl@putlrc{\@sharp\unskip}\hfil
1450             \or \hfil\hskip\z@ \adl@putlrc{\@sharp\unskip}\fi}}
1451 \def\adl@class@start{6}
1452 \def\adl@class@iiiorvii{3}
1453 \fi
1454 \ifpackageloaded{colortbl}{%
1455 \def\adl@inactivate{\adl@org@inactivate \let\CT@setup\adl@CT@setup}
1456 \def\adl@activate{\adl@org@activate \let\CT@setup\adl@act@CT@setup
1457     \let\@endpbox\adl@org@endpbox}
1458 \let\adl@CT@setup\CT@setup
1459 \def\CT@setup{\adl@CT@setup
1460     \@tempdima\ht\z@ \advance\@tempdima\minrowclearance
1461     \ifdim\adl@height<\@tempdima \global\adl@height\@tempdima \fi
1462     \ifdim\adl@depth<\dp\z@ \global\adl@depth\dp\z@\fi}
1463 \let\adl@act@CT@setup\CT@setup
1464 \def\@classz{\@classx
1465     \@tempcnta\count@ \prepnext@tok
1466     \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
1467     \expandafter\adl@extract@arc\the\toks\@tempcnta\arrayrulecolor!\@nil
1468     \expandafter\adl@extract@drsc
1469         \the\toks\@tempcnta\doublerulesepcolor!\@nil
1470     \expandafter\adl@extract@dgc\the\toks\@tempcnta\dashgapcolor!\@nil
1471     \@addtopreamble{\if@RTL\beginL\fi%
1472         \setbox\z@\hbox\bgroup\bgroup\if@RTL\beginR\fi
1473         \ifcase \@chnum
1474             \hskip\stretch{.5}\kern\z@
1475             \dollarbegin

```



```

1476             \insert@column
1477             \d@llarend\hskip\stretch{.5}%
1478         \or \d@llarbegin \insert@column \d@llarend \hfill
1479         \or \hfill \kern\z@ \d@llarbegin \insert@column \d@llarend
1480         \or $\vcenter
1481             \@startpbox{\@nextchar}\insert@column \@endpbox $%
1482         \or \vtop \@startpbox{\@nextchar}\insert@column \@endpbox
1483         \or \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1484         \fi
1485     \if@RTL\endR\fi\egroup\egroup
1486     \beginngroup
1487         \CT@setup
1488         \CT@column@color
1489         \CT@row@color
1490         \CT@cell@color
1491         \CT@do@color
1492     \endgroup
1493     \@tempdima\ht\z@
1494     \advance\@tempdima\minrowclearance
1495     \vrule\@height\@tempdima\@width\z@
1496     \unhbox\z@\if@RTL\endL\fi}%
1497     \prepnext@tok}
1498 \let\adl@act@classz\@classz
1499 \let\adl@org@classz\@classz
1500 }{}

```

## 14 File beamer-xetex-bidi.def

```

1501 \ProvidesFile{beamer-xetex-bidi.def}[2022/06/07 v0.3 bidi adaptations for beamer class for Xe
1502 \AtBeginDocument{%
1503     \if@RTLmain
1504         \raggedleft
1505     \else
1506         \raggedright
1507     \fi
1508 }
1509
1510 \renewcommand*{\bidi@beamer@ragged}{%
1511     \if@RTL
1512         \raggedleft
1513     \else
1514         \raggedright
1515     \fi
1516 }
1517
1518

```

## 15 File beamerbaseauxtemplates-xetex-bidi.def

```

1519 \ProvidesFile{beamerbaseauxtemplates-xetex-bidi.def}[2022/06/06 v0.2 bidi adaptations for be
1520 \bidi@csundef{beamer@tmpop@section in toc@circle}
1521
1522 \bidi@csundef{beamer@tmpop@subsection in toc@circle}
1523

```



```

1524 \bidi@csundef{beamer@@tmpop@subsubsection in toc@circle}
1525
1526 \defbeamertemplate{section in toc}{circle}
1527 {\leavevmode\bidi@beamer@leftskip=2ex%
1528   \llap{%
1529     \usebeamerfont*{section number projected}%
1530     \usebeamercolor{section number projected}%
1531     \begin{pgfpicture}{-1ex}{0ex}{1ex}{2ex}
1532       \color{bg}
1533       \pgfpathcircle{\pgfpoint{0pt}{.75ex}}{1.2ex}
1534       \pgfusepath{fill}
1535       \pgftext[base]{\color{fg}\inserttocsectionnumber}
1536     \end{pgfpicture}\kern1.25ex%
1537   }%
1538   \inserttocsection\par}
1539
1540 \defbeamertemplate{subsection in toc}{circle}
1541 {\leavevmode\bidi@beamer@leftskip=2em\inserttocsubsection\par}
1542
1543 \defbeamertemplate{subsubsection in toc}{circle}
1544 {\leavevmode\normalsize\usebeamerfont{subsection in
1545   toc}\bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}%
1546   \inserttocsubsubsection\par}
1547
1548 \bidi@csundef{beamer@@tmpop@section in toc@square}
1549
1550 \bidi@csundef{beamer@@tmpop@subsection in toc@square}
1551
1552 \bidi@csundef{beamer@@tmpop@subsubsection in toc@square}
1553
1554 \bidi@csundef{beamer@@tmpop@enumerate item@square}
1555
1556 \bidi@csundef{beamer@@tmpop@enumerate subitem@square}
1557
1558 \bidi@csundef{beamer@@tmpop@enumerate subsubitem@square}
1559
1560 \bidi@csundef{beamer@@tmpop@enumerate mini template@square}
1561
1562 \defbeamertemplate{section in toc}{square}
1563 {\leavevmode\bidi@beamer@leftskip=1.75ex%
1564   \llap{{%
1565     \usebeamerfont*{section number projected}%
1566     \usebeamercolor[bg]{section number projected}%
1567     \if@RTL
1568     \else
1569       \vrule width2.25ex height1.85ex depth.4ex%
1570       \hskip-2.25ex%
1571     \fi
1572     \hbox to2.25ex{{\hfil\color{fg}\inserttocsectionnumber\hfil}}}%
1573     \if@RTL
1574       \hskip-2.25ex%
1575       \vrule width2.25ex height1.85ex depth.4ex%
1576     \fi
1577   }}%

```



```

1578 \kern1.25ex\inserttocsection\par}
1579
1580 \defbeamertemplate{subsection in toc}{square}
1581 {\leavevmode\bidibeamer@leftskip=5ex\llap{%
1582   \usebeamercolor[bg]{subsection number projected}%
1583   \vrule width1ex height1ex\kern1ex}}\inserttocsubsection\par}
1584
1585 \defbeamertemplate{subsubsection in toc}{square}
1586 {\leavevmode\normalsize\usebeamerfont{subsection in
1587   toc}\bidibeamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1588   \llap{%
1589     \usebeamercolor[bg]{subsubsection number projected}%
1590     \vrule width0.75ex height0.75ex\kern1ex}}\inserttocsubsubsection\par}
1591
1592 \defbeamertemplate{enumerate item}{square}
1593 {
1594   \hbox{%
1595     \usebeamerfont*{item projected}%
1596     \usebeamercolor[bg]{item projected}%
1597     \if@RTL
1598     \else
1599       \vrule width2.25ex height1.85ex depth.4ex%
1600       \hskip-2.25ex%
1601     \fi
1602     \hbox to2.25ex{%
1603       \hfil%
1604       \color{fg}\insertenumlabel%
1605       \hfil}}%
1606     \if@RTL
1607       \hskip-2.25ex%
1608       \vrule width2.25ex height1.85ex depth.4ex%
1609     \fi
1610   }%
1611 }
1612 [action]
1613 {\setbeamerfont{item projected}{size=\scriptsize}}
1614
1615 \defbeamertemplate{enumerate subitem}{square}
1616 {
1617   \hbox{%
1618     \usebeamerfont*{subitem projected}%
1619     \usebeamercolor[bg]{subitem projected}%
1620     \if@RTL
1621     \else
1622       \vrule width2.25ex height1.85ex depth.4ex%
1623       \hskip-2.25ex%
1624     \fi
1625     \hbox to2.25ex{%
1626       \hfil%
1627       \color{fg}\insertsubenumlabel%
1628       \hfil}}%
1629     \if@RTL
1630       \hskip-2.25ex%
1631       \vrule width2.25ex height1.85ex depth.4ex%

```



```

1632     \fi
1633   }}%
1634 }
1635
1636 \defbeamertemplate{enumerate subsubitem}{square}
1637 {
1638   \hbox{%
1639     \usebeamerfont*{subitem projected}%
1640     \usebeamercolor[bg]{subsubitem projected}%
1641     \if@RTL
1642     \else
1643       \vrule width2.25ex height1.85ex depth.4ex%
1644       \hskip-2.25ex%
1645     \fi
1646     \hbox to2.25ex{%
1647       \hfil%
1648       \color{fg}\insertsubsubenumlabel%
1649       \hfil}}%
1650     \if@RTL
1651       \hskip-2.25ex%
1652       \vrule width2.25ex height1.85ex depth.4ex%
1653     \fi
1654   }}%
1655 }
1656
1657 \defbeamertemplate{enumerate mini template}{square}
1658 {
1659   \hbox{%
1660     \usebeamerfont*{\beameritemnestingprefix item projected}%
1661     \usebeamercolor[bg]{\beameritemnestingprefix item projected}%
1662     \if@RTL
1663     \else
1664       \vrule width2.25ex height1.85ex depth.4ex%
1665       \hskip-2.25ex%
1666     \fi
1667     \hbox to2.25ex{%
1668       \hfil%
1669       \color{fg}\insertenumlabel%
1670       \hfil}}%
1671     \if@RTL
1672       \hskip-2.25ex%
1673       \vrule width2.25ex height1.85ex depth.4ex%
1674     \fi
1675   }}%
1676 }
1677
1678 \bidi@csundef{beamer@@tmpop@section in toc@ball}
1679
1680 \bidi@csundef{beamer@@tmpop@subsection in toc@ball}
1681
1682 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball}
1683
1684 \defbeamertemplate{section in toc}{ball}
1685 {\leavevmode\bidi@beamer@leftskip=2.75ex%

```



```

1686 \llap{%
1687   \normalsize%
1688   \begin{pgfpicture}{-1ex}{-0.7ex}{1ex}{1ex}
1689     \pgftext{\beamer@usesphere{section number projected}{tocsphere}}
1690     \pgftext{%
1691       \usebeamerfont*{section number projected}%
1692       \usebeamerfont*{section number projected}%
1693       \color{fg!90!bg}%
1694       \inserttocsectionnumber}
1695   \end{pgfpicture}%
1696   \kern1.25ex}%
1697 \inserttocsection\par
1698 }
1699 [action]
1700 {\setbeamerfont{section number projected}{size=\scriptsize}}
1701
1702 \defbeamertemplate{subsection in toc}{ball}
1703 {\leavevmode\bidibeamer@leftskip=5ex%
1704   \llap{\raise0.1ex\beamer@usesphere{subsection number projected}{bigsphere}\kern1ex}%
1705   \inserttocsubsection\par%
1706 }
1707
1708 \defbeamertemplate{subsubsection in toc}{ball}
1709 {\leavevmode\normalsize\usebeamerfont{subsection in
1710   toc}\bidibeamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1711   \llap{\beamer@usesphere{subsubsection number projected}{bigsphere}\kern0.75ex}%
1712   \inserttocsubsubsection\par%
1713 }
1714
1715 \bidicsundef{beamer@@tmpop@block begin@rounded}
1716
1717 \bidicsundef{beamer@@tmpop@block alerted begin@rounded}
1718
1719 \bidicsundef{beamer@@tmpop@block example begin@rounded}
1720
1721 \defbeamertemplate{block begin}{rounded}[1][shadow=false]
1722 {%
1723   \par\vskip\medskipamount%
1724   \begin{beamerboxesrounded}[upper=block title,lower=block body,#1]%
1725     {\raggedright\usebeamerfont*{block title}\insertblocktitle}%
1726     \bidibeamer@ragged%
1727     \usebeamerfont{block body}%
1728   }
1729
1730 \defbeamertemplate{block alerted begin}{rounded}[1][shadow=false]
1731 {%
1732   \par\vskip\medskipamount%
1733   \begin{beamerboxesrounded}[upper=block title alerted,lower=block body alerted,#1]%
1734     {\raggedright\usebeamerfont*{block title alerted}\insertblocktitle}%
1735     \bidibeamer@ragged%
1736     \usebeamerfont{block body alerted}%
1737   }%
1738
1739 \defbeamertemplate{block example begin}{rounded}[1][shadow=false]

```



```

1740 {%
1741   \par\vskip\medskipamount%
1742   \begin{beamerboxesrounded}[upper=block title example,lower=block body example,#1]
1743     {\raggedright\usebeamerfont*{block title example}\insertblocktitle}%
1744     \bidi@beamer@ragged%
1745     \usebeamerfont{block body example}%
1746 }%
1747

```

## 16 File beamerbaseboxes-xetex-bidi.def

```

1748 \ProvidesFile{beamerbaseboxes-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for beamerbas
1749 \renewcommand\beamerboxesrounded[2] [] {%
1750   \global\let\beamer@firstlineitemizeunskip=\relax%
1751   \vbox\bgroup%
1752   \setkeys{beamerboxes}{upper=block title,lower=block body,width=\textwidth,shadow=false}%
1753   \setkeys{beamerboxes}{#1}%
1754   {%
1755     \usebeamercolor{\bmb@lower}%
1756     \globalcolorstrue%
1757     \colorlet{lower.bg}{bg}%
1758   }%
1759   {%
1760     \usebeamercolor{\bmb@upper}%
1761     \globalcolorstrue%
1762     \colorlet{upper.bg}{bg}%
1763   }%
1764   %
1765   % Typeset head
1766   %
1767   \vskip4bp
1768   \setbox\bmb@box=\hbox{%
1769     \begin{minipage}[b]{\bmb@width}%
1770       \usebeamercolor{fg}{\bmb@upper}%
1771       #2%
1772     \end{minipage}}%
1773   \ifdim\wd\bmb@box=0pt%
1774     \setbox\bmb@box=\hbox{%
1775       \ht\bmb@box=1.5pt%
1776       \bmb@prevheight=-4.5pt%
1777     \else%
1778       \wd\bmb@box=\bmb@width%
1779       \bmb@temp=\dp\bmb@box%
1780       \ifdim\bmb@temp<1.5pt%
1781         \bmb@temp=1.5pt%
1782       \fi%
1783       \setbox\bmb@box=\hbox{\raise\bmb@temp\hbox{\box\bmb@box}}%
1784       \dp\bmb@box=0pt%
1785       \bmb@prevheight=\ht\bmb@box%
1786     \fi%
1787     \bmb@temp=\bmb@width%
1788     \bmb@dima=\bmb@temp\advance\bmb@dima by2.2bp%
1789     \bmb@dimb=\bmb@temp\advance\bmb@dimb by4bp%
1790     \hbox{%

```



```

1791 \begin{pgfpicture}{0bp}{+-\ht\bmb@box}{0bp}{+-\ht\bmb@box}
1792 \ifdim\wd\bmb@box=0pt%
1793 \color{lower.bg}%
1794 \else%
1795 \color{upper.bg}%
1796 \fi%
1797 \pgfpathqmoveto{-4bp}{-1bp}
1798 \pgfpathqcurveto{-4bp}{1.2bp}{-2.2bp}{3bp}{0bp}{3bp}
1799 \pgfpathlineto{\pgfpoint{\bmb@temp}{3bp}}
1800 \pgfpathcurveto%
1801 {\pgfpoint{\bmb@dima}{3bp}}%
1802 {\pgfpoint{\bmb@dimb}{1.2bp}}%
1803 {\pgfpoint{\bmb@dimb}{-1bp}}%
1804 \bmb@dima=-\ht\bmb@box%
1805 \advance\bmb@dima by-2pt%
1806 \pgfpathlineto{\pgfpoint{\bmb@dimb}{\bmb@dima}}
1807 \pgfpathlineto{\pgfpoint{-4bp}{\bmb@dima}}
1808 \pgfusepath{fill}
1809 \end{pgfpicture}%
1810 \copy\bmb@box%
1811 }%
1812 \nointerlineskip%
1813 \vskip-1pt%
1814 \ifdim\wd\bmb@box=0pt%
1815 \else%
1816 \hbox{%
1817 \begin{pgfpicture}{0pt}{0pt}{\bmb@width}{6pt}
1818 \bmb@dima=\bmb@width%
1819 \advance\bmb@dima by8bp%
1820 \pgfpathrectangle{\pgfpoint{-4bp}{-1bp}}{\pgfpoint{\bmb@dima}{8bp}}
1821 \pgfusepath{clip}
1822 {\pgftransformshift{\pgfpoint{-4bp}{0bp}}\pgftext[left,base]{\pgfuses shading{\bmb@transi
1823 \end{pgfpicture}%
1824 }%
1825 \nointerlineskip%
1826 \vskip-0.5pt%
1827 \fi%
1828 \setbox\bmb@colorbox=\hbox{\pgfpicturetrue\pgfsetcolor{lower.bg}}}%
1829 \setbox\bmb@box=\hbox\bgroup\begin{minipage}[b]{\bmb@width}%
1830 \vskip2pt%
1831 \usebeamercolor[fg]{\bmb@lower}%
1832 \colorlet{beamerstructure}{upper.bg}%
1833 \colorlet{structure}{upper.bg}%
1834 %\color{.}%
1835 \@bidi@list@minipage@parboxfalse
1836 }
1837
1838 \bidi@patchcmd{\endbeamerboxesrounded}{\begingroup}{%
1839 \begingroup
1840 \@RTLfalse
1841 }{}{}
1842
1843

```





## 17 File beamerbasecolor-xetex-bidi.def

```
1844 \ProvidesFile{beamerbasecolor-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for beamerbas
1845 \renewenvironment{beamercolobox}[2] []{%
1846   \def\beamer@vmode{\leavevmode}%
1847   \setkeys{beamercolobox}{wd=\textwidth,ht={},dp={},%
1848     leftskip=0pt,rightskip=0pt plus1fil,%
1849     sep=0pt,colsep=0pt,colsep*=0pt,%
1850     shadow=false,rounded=false,ignorebg=false}%
1851   \if@RTL
1852     \setkeys{beamercolobox}{rightskip=0pt,leftskip=0pt plus1fil}%
1853   \else
1854     \setkeys{beamercolobox}{leftskip=0pt,rightskip=0pt plus1fil}%
1855   \fi
1856   \setkeys{beamercolobox}{#1}%
1857   \ifbeamercoloreempty[bg]{#2}{\@tempswafalse}{\@tempswatruetrue}%
1858   \ifbeamer@colbox@ignorebg\@tempswafalse\fi%
1859   \def\beamer@colbox@color{#2}%
1860   \setbox\beamer@tempbox=\hbox\bgroup\color@begingroup
1861     \ifbeamer@colbox@ignorebg%
1862       \colorlet{beamer@temp@color}{bg}%
1863       \usebeamercolor[fg]{#2}%
1864       \colorlet{bg}{beamer@temp@color}%
1865     \else%
1866       \usebeamercolor[fg]{#2}%
1867     \fi%
1868     \beginL
1869     \vbox\bgroup%
1870     \hsize=\beamer@colbox@wd%
1871     \@arrayparboxrestore%
1872     \leftskip=\beamer@colbox@ls%
1873     \ifdim\beamer@colbox@sep>\z@\advance\leftskip\beamer@colbox@sep\fi%
1874     \rightskip=\beamer@colbox@rs%
1875     \ifdim\beamer@colbox@sep>\z@\advance\rightskip\beamer@colbox@sep\fi%
1876     \if@tempswa\ifdim\beamer@colbox@colsep>\z@%
1877       \advance\leftskip by\beamer@colbox@colsep%
1878       \advance\rightskip by\beamer@colbox@colsep%
1879       \vskip\beamer@colbox@colsep%
1880     \fi%
1881     \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
1882     \fi%
1883     \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
1884     \beamer@vmode\ignorespaces}%
1885     \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
1886     \if@tempswa
1887       \ifdim\beamer@colbox@colsep>\z@\vskip\beamer@colbox@colsep\fi%
1888       \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
1889     \fi%
1890   \egroup\endL\color@endgroup\egroup%
1891   \wd\beamer@tempbox=\beamer@colbox@wd%
1892   \ifx\beamer@colbox@ht\empty\else\ht\beamer@tempbox=\beamer@colbox@ht\fi%
1893   \ifx\beamer@colbox@dp\empty\else\dp\beamer@tempbox=\beamer@colbox@dp\fi%
1894   \ifbeamer@colbox@rounded%
1895     \if@tempswa%
```



```

1896 \begin{beamerboxesrounded}[%
1897   shadow=\beamer@colbox@shadow,%
1898   lower=\beamer@colbox@color,%
1899   upper=normal text,%
1900   width=\beamer@colbox@wd]{}%
1901   \box\beamer@tempbox%
1902 \end{beamerboxesrounded}%
1903 \else%
1904   \ifdim\wd\beamer@tempbox>\textwidth%
1905     \setbox\beamer@tempbox=\hbox to\textwidth{\hss\box\beamer@tempbox\hss}%
1906   \fi%
1907   \box\beamer@tempbox%
1908   \fi%
1909 \else%
1910   \if@tempswa\setbox\beamer@tempbox=\hbox{%
1911     \usebeamercolor{\beamer@colbox@color}%
1912     \hskip-\beamer@colbox@colseps%
1913     \fboxsep=\z@\colorbox{bg}{}%
1914     \hskip\beamer@colbox@colseps%
1915     \box\beamer@tempbox%
1916     \hskip\beamer@colbox@colseps%
1917   }%
1918   \hskip-\beamer@colbox@colseps%
1919   }\fi%
1920   \ifdim\wd\beamer@tempbox>\textwidth%
1921     \setbox\beamer@tempbox=\hbox to\textwidth{\hskip0pt minus\beamer@leftmargin\relax\box\beamer@tempbox}%
1922   \fi%
1923   \box\beamer@tempbox%
1924   \fi%
1925 }
1926
1927

```

## 18 File beamerbasecompatibility-xetex-bidi.def

```

1928 \ProvidesFile{beamerbasecompatibility-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for b
1929 \def\insertvrule#1#2{\hbox{{\color{#2}\hskip-\Gm@lmargin\vrule width \paperwidth height #1\h
1930
1931

```

## 19 File beamerbaseframecomponents-xetex-bidi.def

```

1932 \ProvidesFile{beamerbaseframecomponents-xetex-bidi.def}[2022/06/13 v0.4 bidi adaptations for
1933 \renewcommand{\setbeamersize}[1]{%
1934   \beamer@dogeometryfalse%
1935   \setkeys{beamer@margin}{#1}%
1936   \ifbeamer@dogeometry%
1937     % Reset left margin now
1938     \beamer@tempdim=\beamer@leftmargin%
1939     \advance\beamer@tempdim by\beamer@leftsidebar%
1940     \if@RTLmain
1941       \geometry{right=\the\beamer@tempdim}%
1942     \else
1943       \geometry{left=\the\beamer@tempdim}%

```



```

1944 \fi
1945 % Reset right margin now
1946 \beamer@tempdim=\beamer@rightmargin%
1947 \advance\beamer@tempdim by\beamer@rightsidebar%
1948 \if@RTLmain
1949 \geometry{left=\the\beamer@tempdim}%
1950 \else
1951 \geometry{right=\the\beamer@tempdim}%
1952 \fi
1953 \fi%
1954 }
1955
1956 \newcommand*{\bidi@beamer@Gm@lmargin}{%
1957 \if@RTLmain
1958 \Gm@rmargin
1959 \else
1960 \Gm@lmargin
1961 \fi
1962 }
1963
1964 \newcommand*{\bidi@beamer@Gm@rmargin}{%
1965 \if@RTLmain
1966 \Gm@lmargin
1967 \else
1968 \Gm@rmargin
1969 \fi
1970 }
1971
1972 \def\ps@navigation{
1973 \def\@oddhead{%
1974 \begingroup%
1975 \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransition}%
1976 \beamer@tempdim=\ht\beamer@tempbox%
1977 \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}%
1978 \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
1979 \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}%
1980 \beamer@tempdim=\ht\@tempboxa%
1981 \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}%
1982 \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
1983 \vbox{\hbox{\hskip-\bidi@beamer@Gm@lmargin\box\beamer@tempbox\box\@tempboxa}%
1984 \hbox{%
1985 {%
1986 \setbox\beamer@tempbox=\hbox{\hskip-\bidi@beamer@Gm@lmargin%
1987 \if@RTLmain
1988 {%
1989 \vbox to \sidebarheight{%
1990 \usebeamertemplate***{sidebar left}%
1991 \vfil%
1992 }%
1993 \ifpackageloaded{beamerinnerthemeinmargin}{}%
1994 \hskip-\textwidth
1995 }%
1996 \fi
1997 {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%

```



```

1998         \usebeamercolor*{sidebar left}%
1999         \usebeamertemplate{sidebar canvas left}%
2000         \vss%
2001     }}%
2002     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2003     \box\beamer@tempbox}%
2004     \if@RTLmain
2005     \else
2006     {%
2007         \vbox to \sidebarheight{%
2008             \usebeamertemplate***{sidebar left}%
2009             \vfil%
2010         }}\fi}%
2011     \beamer@tempdim=\ht\beamer@tempbox%
2012     \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2013     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2014     \box\beamer@tempbox%
2015 }%
2016 {% print right sidebar first, since it should be overwritten by headline
2017     \setbox\beamer@tempbox=\hbox{\hskip\textwidth\hskip\beamer@rightmargin%
2018     \if@RTLmain
2019         {%
2020             \vbox to \sidebarheight{%
2021                 \usebeamertemplate***{sidebar right}%
2022                 \vfil%
2023             }}%
2024             \hskip-\textwidth
2025             \fi
2026             {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2027                 \usebeamercolor*{sidebar right}%
2028                 \usebeamertemplate{sidebar canvas right}%
2029                 \vss%
2030             }}%
2031             \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2032             \box\beamer@tempbox}%
2033             \if@RTLmain
2034             \else
2035             {%
2036                 \vbox to \sidebarheight{%
2037                     \usebeamertemplate***{sidebar right}%
2038                     \vfil%
2039                 }}\fi}%
2040             \beamer@tempdim=\ht\beamer@tempbox%
2041             \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2042             \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2043             \box\beamer@tempbox%
2044         }}%
2045         \beamer@typesetheadorfoot{headline}%
2046     }%
2047     \hfil}%
2048 \endgroup}
2049 \def\@oddfoot{%
2050     \vbox{\offinterlineskip\hbox{\beamer@typesetheadorfoot{footline}%
2051     \hfil}\hbox{}}\hfil

```



```

2052 }%
2053 \let\@evenhead\@oddhead
2054 \let\@evenfoot\@oddfoot}
2055
2056 \AtBeginDocument{%
2057   \pagestyle{navigation}%
2058 }
2059
2060 \def\beamer@typesetheadorfoot#1{% typeset the head or footline
2061   {\parskip0pt\offinterlineskip%
2062     \hbox{%
2063       \hskip-\bidi@beamer@Gm@lmargin%
2064       \hbox{%
2065         \vbox{%
2066           \@tempdima=\textwidth%
2067           \textwidth=\paperwidth%
2068           \hsize=\textwidth%
2069           \def\{,%
2070             \usebeamertemplate***{#1}%
2071           }%
2072           \hskip-\bidi@beamer@Gm@rmargin%
2073         }\hfil%
2074       }
2075     }
2076 \def\ps@empty{%
2077   \let\@mkboth\@gobbletwo%
2078   \def\@oddhead{\begingroup%
2079     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransiti
2080     \beamer@tempdim=\ht\beamer@tempbox%
2081     \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}%
2082     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2083     \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}%
2084     \beamer@tempdim=\ht\@tempboxa%
2085     \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}%
2086     \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2087     \vbox{\hbox{\hskip-\Gm@lmargin\raise\headheight\box\beamer@tempbox\raise\headheight\box
2088     \endgroup%
2089   }
2090   \def\@oddfoot{\normalcolor\hfil%
2091     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{navigation symbols}\hskip-\Gm@rmargin
2092     \ht\beamer@tempbox=0pt%
2093     \dp\beamer@tempbox=0pt%
2094     \box\beamer@tempbox}}
2095   \let\@evenhead\@oddhead\let\@evenfoot\@oddfoot}
2096
2097 \renewcommand<>\beamer@columncom[2][\beamer@colmode]{%
2098   \beamer@colclose%
2099   \def\beamer@colclose{\end{minipage}\hfill\end{actionenv}\ignorespaces}%
2100 \begin{actionenv}#3%
2101   \setkeys{beamer@col}{#1}%
2102   \begin{minipage}[\beamer@colalign]{#2}%
2103     \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2104
2105 \renewenvironment<>{columns}[1][]{%

```



```

2106 \begin{actionenv}#2%
2107 \ifbeamer@onlytextwidth
2108   \def\beamer@colentrycode{\hbox to\textwidth\bgroup\ignorespaces}%
2109   \def\beamer@colexitcode{\unskip\egroup}
2110 \else%
2111   \def\beamer@colentrycode{%
2112     \hbox to\textwidth\bgroup%
2113     \leavevmode%
2114     \hskip-\beamer@leftmargin%
2115     \nobreak%
2116     \beamer@tempdim=\textwidth%
2117     \advance\beamer@tempdim by\beamer@leftmargin%
2118     \advance\beamer@tempdim by\beamer@rightmargin%
2119     \hbox to\beamer@tempdim\bgroup%
2120     \hbox{}\hfill\ignorespaces}%
2121   \def\beamer@colexitcode{\egroup%
2122     \nobreak%
2123     \hskip-\beamer@rightmargin\egroup}%
2124 \fi%
2125 \ifbeamer@centered\setkeys{beamer@col}{c}\else\setkeys{beamer@col}{t}\fi%
2126 \setkeys{beamer@col}{#1}%
2127 \par%
2128 \leavevmode
2129 \beamer@colentrycode%
2130 \def\beamer@colclose{}\ignorespaces}%
2131 {\beamer@colclose\def\beamer@colclose{}\beamer@colexitcode\end{actionenv}}%
2132
2133
2134 \def\@makeRTLftntext#1{%
2135   \def\insertfootnotetext{#1}%
2136   \def\insertfootnotemark{\@makefnmark}%
2137   \usebeamertemplate***{RTLfootnote}}
2138
2139 \def\@makeLTRftntext#1{%
2140   \def\insertfootnotetext{#1}%
2141   \def\insertfootnotemark{\@makefnmark}%
2142   \usebeamertemplate***{LTRfootnote}}
2143
2144 \renewcommand<>\beamer@framefootnotetext[1]{%
2145   \global\setbox\beamer@footins\vbox{%
2146     \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
2147     \hsize\framewidth
2148     \textwidth\hsize
2149     \columnwidth\hsize
2150     \unvbox\beamer@footins
2151     \reset@font
2152     \bidi@@footnotetext@font
2153     \@parboxrestore
2154     \protected@edef\@currentlabel
2155       {\csname p@footnote\endcsname\@thefnmark}%
2156     \color@begingroup
2157       \uncover#2{\@makefntext{%
2158         \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2159     \color@endgroup}}

```



```

2160
2161 \renewcommand<>\beamer@frameRTLfootnotetext[1]{%
2162   \global\setbox\beamer@footins\vbox{%
2163     \RTLtrue
2164     \hsize\framewidth
2165     \textwidth\hsize
2166     \columnwidth\hsize
2167     \unvbox\beamer@footins
2168     \reset@font
2169     \bidi@RTLfootnotetext@font
2170     \@parboxrestore
2171     \protected@edef\@currentlabel
2172       {\csname p@footnote\endcsname\@thefnmark}%
2173     \color@begingroup
2174       \uncover#2{\@makeRTLfnstext{%
2175         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2176     \color@endgroup}}
2177
2178 \renewcommand<>\beamer@frameLTRfootnotetext[1]{%
2179   \global\setbox\beamer@footins\vbox{%
2180     \RTLfalse
2181     \hsize\framewidth
2182     \textwidth\hsize
2183     \columnwidth\hsize
2184     \unvbox\beamer@footins
2185     \reset@font
2186     \bidi@LTRfootnotetext@font
2187     \@parboxrestore
2188     \protected@edef\@currentlabel
2189       {\csname p@footnote\endcsname\@thefnmark}%
2190     \color@begingroup
2191       \uncover#2{\@makeLTRfnstext{%
2192         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2193     \color@endgroup}}
2194
2195 \renewcommand<>\@mpfootnotetext[1]{%
2196   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\bidi@mpfootnoterule\right@footnoterule
2197   \global\setbox\@mpfootins\vbox{%
2198     \if@RTL@footnote\RTLtrue\else\RTLfalse\fi
2199     \unvbox\@mpfootins
2200     \reset@font
2201     \bidi@@footnotetext@font
2202     \hsize\columnwidth
2203     \@parboxrestore
2204     \protected@edef\@currentlabel
2205       {\csname p@mpfootnote\endcsname\@thefnmark}%
2206     \color@begingroup
2207       \uncover#2{\@makefnstext{%
2208         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2209     \color@endgroup}}
2210
2211 \renewcommand<>\@mpRTLfootnotetext[1]{%
2212   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@footnoterule
2213   \global\setbox\@mpfootins\vbox{%

```



```

2214 \RTLtrue
2215 \unvbox\@mpfootins
2216 \reset@font
2217 \bidi@RTLfootnotetext@font
2218 \hsize\columnwidth
2219 \@parboxrestore
2220 \protected@edef\@currentlabel
2221 {\csname p@mpfootnote\endcsname\@thefnmark}%
2222 \color@begingroup
2223 \uncover#2{\@makeRTLfnstext{%
2224 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2225 \color@endgroup}}
2226
2227 \renewcommand<>\@mpLTRfootnotetext[1]{%
2228 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footnot
2229 \global\setbox\@mpfootins\vbox{%
2230 \RTLfalse
2231 \unvbox\@mpfootins
2232 \reset@font
2233 \bidi@LTRfootnotetext@font
2234 \hsize\columnwidth
2235 \@parboxrestore
2236 \protected@edef\@currentlabel
2237 {\csname p@mpfootnote\endcsname\@thefnmark}%
2238 \color@begingroup
2239 \uncover#2{\@makeLTRfnstext{%
2240 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2241 \color@endgroup}}
2242
2243 \let\@footnotetext=\beamer@framefootnotetext
2244 \let\@RTLfootnotetext=\beamer@frameRTLfootnotetext
2245 \let\@LTRfootnotetext=\beamer@frameLTRfootnotetext
2246
2247 \footdir@temp\footdir@ORG@bidi@beamer@footnotetext\@footnotetext{\bidi@footdir@footnote}%
2248 \footdir@temp\footdir@ORG@bidi@beamer@RTLfootnotetext\@RTLfootnotetext{R}%
2249 \footdir@temp\footdir@ORG@bidi@beamer@LTRfootnotetext\@LTRfootnotetext{L}%
2250
2251 \renewcommand<>{\footnote}[1][ ]{%
2252 \let\beamer@footnotetext=\@footnotetext%
2253 \let\beamer@mpfn=\@mpfn%
2254 \let\beamer@thempfn=\thempfn%
2255 \let\beamer@kvorig=\KV@errx%
2256 \let\beamer@xkvorig=\XKV@err
2257 \def\beamer@footarg{}%
2258 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2259 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2260 \setkeys{beamerfootnote}{#1}%
2261 \let\KV@errx=\beamer@kvorig%
2262 \let\XKV@errx=\beamer@xkvorig%
2263 \ifx\beamer@footarg\@empty%
2264 \def\beamer@next{\stepcounter\beamer@mpfn
2265 \protected@xdef\@thefnmark{\beamer@thempfn}%
2266 \@footnotemark\beamer@footnotetext#2}%
2267 \else%

```





```

2268 \def\beamer@next{%
2269 \begingroup
2270 \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2271 \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2272 \endgroup
2273 \@footnotemark\beamer@footnotetext#2}%
2274 \fi%
2275 \beamer@next}
2276
2277 \renewcommand<>{\RTLfootnote}[1] [] {%
2278 \let\beamer@RTLfootnotetext=\@RTLfootnotetext%
2279 \let\beamer@mpfn=\@mpfn%
2280 \let\beamer@thempfn=\thempfn%
2281 \let\beamer@kvorig=\KV@errx%
2282 \let\beamer@xkvorig=\XKV@err
2283 \def\beamer@footarg{%
2284 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2285 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}}%
2286 \setkeys{beamerfootnote}{#1}%
2287 \let\KV@errx=\beamer@kvorig%
2288 \let\XKV@errx=\beamer@xkvorig
2289 \ifx\beamer@footarg\@empty%
2290 \def\beamer@next{\stepcounter\beamer@mpfn
2291 \protected@xdef\@thefnmark{\beamer@thempfn}%
2292 \@footnotemark\beamer@RTLfootnotetext#2}%
2293 \else%
2294 \def\beamer@next{%
2295 \begingroup
2296 \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2297 \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2298 \endgroup
2299 \@footnotemark\beamer@RTLfootnotetext#2}%
2300 \fi%
2301 \beamer@next}
2302
2303 \renewcommand<>{\LTRfootnote}[1] [] {%
2304 \let\beamer@LTRfootnotetext=\@LTRfootnotetext%
2305 \let\beamer@mpfn=\@mpfn%
2306 \let\beamer@thempfn=\thempfn%
2307 \let\beamer@kvorig=\KV@errx%
2308 \let\beamer@xkvorig=\XKV@err
2309 \def\beamer@footarg{%
2310 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2311 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}}%
2312 \setkeys{beamerfootnote}{#1}%
2313 \let\KV@errx=\beamer@kvorig%
2314 \let\XKV@errx=\beamer@xkvorig
2315 \ifx\beamer@footarg\@empty%
2316 \def\beamer@next{\stepcounter\beamer@mpfn
2317 \protected@xdef\@thefnmark{\beamer@thempfn}%
2318 \@footnotemark\beamer@LTRfootnotetext#2}%
2319 \else%
2320 \def\beamer@next{%
2321 \begingroup

```



```

2322         \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2323         \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2324     \endgroup
2325     \@footnotemark\beamer@LTRfootnotetext#2}%
2326 \fi%
2327 \beamer@next}
2328
2329

```

## 20 File beamerbaseframesize-xetex-bidi.def

```

2330 \ProvidesFile{beamerbaseframesize-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamer]
2331 \def\beamer@framezoom<#1><#2>[#3](#4,#5)(#6,#7){%
2332     \par\nointerlineskip%
2333     \global\beamer@slidehaszoomtrue%
2334     \advance\beamer@zoomcount by1\relax%
2335     \def\beamer@zoomborderwidth{0}%
2336     \edef\beamer@labelzoomed{\beamer@labelzoomed@the\beamer@zoomframecount @the\beamer@zoomcount}%
2337     \setkeys{beamerzoom}{#3}%
2338     \only<#1>{%
2339         {\hypersetup{pdfhighlight={/P},pdfborder={0 0 \beamer@zoomborderwidth}}}%
2340         \global\setbox\@tempboxa=\vbox{\hyperlink{\beamer@labelzoomed}{%
2341             \expandafter\ifx\csname XeTeXrevision\endcsname\relax
2342                 \vbox to #7{%
2343                     \hbox to#6{\hfil}%
2344                     \vfil%
2345                 }%
2346             \else%
2347                 \begingroup%
2348                 \normalsize%
2349                 \begin{pgfpicture}{0pt}{0pt}{#6}{#7}%
2350                     \pgfsetfillopacity{0}
2351                     \pgftext[x=0cm,y=3pt]{.}
2352                     \pgftext[x=#6,y=\dimexpr#7-\baselineskip+3pt]{.}
2353                 \end{pgfpicture}%
2354                 \endgroup%
2355             \fi%
2356         }}%
2357         \ht\@tempboxa=0pt%
2358         \wd\@tempboxa=0pt%
2359         \dp\@tempboxa=0pt%
2360         \setbox\@tempboxa=\vbox{\if@RTL\moveleft\fi#4\hbox{\lower#5\vbox{\box\@tempboxa}%
2361             \ht\@tempboxa=0pt%
2362             \wd\@tempboxa=0pt%
2363             \dp\@tempboxa=0pt%
2364             \global\setbox\beamer@zoombox=\vbox to0pt{\unvbox\beamer@zoombox\box\@tempboxa}%
2365         }%
2366         \only<#2>{%
2367             \@ifundefined{\beamer@labelzoomed}%
2368             {%
2369                 \hypertarget{\beamer@labelzoomed}{}%
2370                 \expandafter\gdef\csname\beamer@labelzoomed\endcsname{}%
2371             }{}%
2372             \gdef\beamer@zoomer{%

```



```

2373 % compute zoom factor
2374 \@tempdima=\beamer@frametextheight%
2375 \@tempdimb=#7\relax%
2376 \@tempcnta=\@tempdimb%
2377 \divide\@tempcnta by4096\relax%
2378 \multiply\@tempdima by16\relax%
2379 \divide\@tempdima by\@tempcnta%
2380 \@tempdimb=\paperwidth%
2381 \ifbeamer@plainframe%
2382 \else%
2383   \advance\@tempdimb by-\beamer@leftsidebar%
2384   \advance\@tempdimb by-\beamer@rightsidebar\relax%
2385 \fi%
2386 \@tempdimc=#6\relax%
2387 \@tempcntb=\@tempdimc%
2388 \divide\@tempcntb by4096\relax%
2389 \multiply\@tempdimb by16\relax%
2390 \divide\@tempdimb by\@tempcntb%
2391 \ifdim\@tempdimb<\@tempdima%
2392   \@tempdima=\@tempdimb%
2393 \fi%
2394 \edef\beamer@temp{\strip@pt\@tempdima}%
2395 \@tempdimc=\beamer@frametextheight%
2396 \advance\@tempdimc by4pt%
2397 \@tempdimb=\paperwidth%
2398 \ifbeamer@plainframe%
2399 \else%
2400   \advance\@tempdimb by-\beamer@leftsidebar%
2401   \advance\@tempdimb by-\beamer@rightsidebar\relax%
2402 \fi%
2403 \setbox\@tempboxa=\vbox{\hsize=\@tempdimb\Acrobatmenu{GoBack}{\vbox to
2404   \beamer@frametextheight{\hbox to\@tempdimb{\hfil}\vfil}}}%
2405 \ht\@tempboxa=0pt%
2406 \wd\@tempboxa=0pt%
2407 \dp\@tempboxa=0pt%
2408 \setbox\beamer@framebox=\vbox to\beamer@frametextheight{%
2409   \ifbeamer@plainframe\beamer@leftmargin=Gm@lmargin\fi%
2410   \if@RTL
2411     \begin{pgfpicture}{\paperwidth-\beamer@leftmargin}{-\beamer@frametextheight}{\paperwidth-\beamer@leftmargin}{\beamer@frametextheight}
2412       \pgftext[right,top]{\box\@tempboxa}
2413       \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2414       \pgfusepath{clip}
2415       \begin{group}
2416         \pgftransformscale{\beamer@temp}
2417         \@tempdima=#4\relax%
2418         \@tempdimb=#5\relax%
2419         {\pgftransformshift{\pgfpoint{\@tempdima+#6}{\@tempdimb}}}%
2420         \pgftext[right,top]{\vbox{\vbox{\nointerlineskip\unvbox\beamer@framebox}}}
2421       \end{group}
2422     \end{pgfpicture}%
2423   \else
2424     \begin{pgfpicture}{\beamer@leftmargin}{-\beamer@frametextheight}{\beamer@leftmargin+\beamer@rightmargin}{\beamer@frametextheight}
2425       \pgftext[left,top]{\box\@tempboxa}
2426       \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}

```



```

2427         \pgfusepath{clip}
2428         \beginpgfgroup
2429             \pgftransformscale{\beamer@temp}
2430             \@tempdima=#4\relax%
2431             \@tempdimb=#5\relax%
2432             {\pgftransformshift{\pgfpoint{-\@tempdima}{\@tempdimb}}}%
2433             \pgftext[left,top]{\vbox{\vbox{} \nointerlineskip \unvbox \beamer@framebox}}
2434         \endpgfgroup
2435     \end{pgfpicture}%
2436     \fi
2437 }%
2438 \setbox\beamer@framebox=\vbox{%
2439     \nobreak\vbox{} \nobreak\par \nobreak\beamer@entrycode \nobreak%
2440     \nointerlineskip \unvbox \beamer@frametitlebox%
2441     \nobreak%
2442     \box\beamer@framebox%
2443     \nobreak%
2444     \vss%
2445     \beamer@exitcode%
2446 }%
2447 \global\setbox\beamer@footins=\box\voidb@x% no footnotes in zoomed slides
2448 }%
2449 }%
2450 }
2451
2452

```

## 21 File beamerbaselocalstructure-xetex-bidi.def

```

2453 \ProvidesFile{beamerbaselocalstructure-xetex-bidi.def}[2022/05/24 v0.1 bidi adaptations for
2454 \def\beamer@enum@{%
2455     \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2456     \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2457     \bgroup
2458     \usebeamerfont{fg}{itemize/enumerate \beameritemnestingprefix body}%
2459     \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2460     \egroup
2461     \expandafter
2462     \list
2463     {\usebeamertemplate{\beamer@enumtempl}}
2464     {\usecounter\@enumctr%
2465         \def\makelabel##1{\hss\llap{\{
2466             \usebeamerfont*{enumerate \beameritemnestingprefix item}%
2467             \usebeamerfont{fg}{enumerate \beameritemnestingprefix item}##1}}}}}%
2468     \beamer@cramped%
2469     \bidi@beamer@ragged%
2470     \beamer@firstlineitemizeunskip%
2471 }
2472
2473 \renewcommand{\itemize}[1][]{%
2474     \ifblank{#1}{\def\beamer@defaulttospec{#1}}%
2475     \ifnum \@itemdepth >2\relax\@toodeep\else
2476         \advance\@itemdepth\@ne
2477         \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix

```



```

2478 \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2479 \bgroup
2480 \usebeamerfont{fg}{itemize/enumerate \beameritemnestingprefix body}%
2481 \usebeamerfont{itemize/enumerate \beameritemnestingprefix body begin}%
2482 \egroup
2483 \list
2484 {\usebeamerfont{itemize \beameritemnestingprefix item}}
2485 {\def\makelabel##1{%
2486   {%
2487     \hss\llap{%
2488       \usebeamerfont*{itemize \beameritemnestingprefix item}%
2489       \usebeamerfont{fg}{itemize \beameritemnestingprefix item}##1}}%
2490   }%
2491 }%
2492 }
2493 \fi%
2494 \beamer@cramped%
2495 \bidi@beamer@ragged%
2496 \beamer@firstlineitemizeunskip%
2497 }
2498
2499 \def\@@description{%
2500 \advance\beamer@descdefault by \labelsep%
2501 \usebeamerfont{description body}%
2502 \bgroup
2503 \usebeamerfont{fg}{description body}%
2504 \usebeamerfont{description body begin}%
2505 \egroup
2506 \list
2507 {}
2508 {\labelwidth\beamer@descdefault\leftmargin\beamer@descdefault\let\makelabel\beamer@descrip
2509 \beamer@cramped%
2510 \bidi@beamer@ragged
2511 \beamer@firstlineitemizeunskip%
2512 }
2513
2514 \renewenvironment{thebibliography}[1]
2515 {%\leavevmode\unskip%
2516 \ifRTL\ifLTRbibitems\RTLfalse\else\fi\else\ifRTLbibitems\RTLtrue\else\fi\fi
2517 \bidi@thebibliography@font@hook%
2518 \list{\@biblabel{\@arabic\c@enumiv}}%
2519 {\settowidth\labelwidth{\beamer@biblabeltemplate{\@biblabel{#1}}}%
2520 \leftmargin\labelwidth
2521 \advance\leftmargin\labelsep
2522 \itemsep=0pt%
2523 \partopsep=0pt%
2524 \topsep=0pt%
2525 \usecounter{enumiv}%
2526 \let\p@enumiv\@empty
2527 \renewcommand\theenumiv{\@arabic\c@enumiv}
2528 \let\makelabel\beamer@biblabeltemplate}%
2529 \sloppy\bidi@beamer@ragged
2530 \clubpenalty10000
2531 \@clubpenalty \clubpenalty

```



```

2532     \widowpenalty10000%
2533     \sfcode`\.\@m}
2534     {\def\@noitemerr
2535      {\@latex@warning{Empty `thebibliography' environment}}}%
2536     \ifhmode\unskip\fi\endlist}
2537
2538

```

## 22 File beamerbasemisc-xetex-bidi.def

```

2539 \ProvidesFile{beamerbasemisc-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamerbase
2540 \define@key{beamerst}{width}{%
2541   \def\beamer@ststart{%
2542     \begin{minipage}[t]{#1}%
2543       \bidi@beamer@ragged
2544       \beamer@stalign
2545       \beamer@stlinebreakrule
2546     }%
2547   \def\beamer@stend{\end{minipage}}}%
2548
2549

```

## 23 File beamerbasenavigation-xetex-bidi.def

```

2550 \ProvidesFile{beamerbasenavigation-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for beam
2551 \def\slideentry#1#2#3#4#5#6{%
2552   %section number, subsection number, slide number, first/last frame, page number, part numb
2553   \ifnum#6=\c@part\ifnum#1>0\ifnum#3>0%
2554     \ifbeamer@compress%
2555       \advance\beamer@xpos by1\relax%
2556     \else%
2557       \ifnum#2=0%
2558         \beamer@ypos@offset=1\relax%
2559       \fi
2560       \beamer@xpos=#3\relax%
2561       \beamer@ypos=#2\relax%
2562       \advance\beamer@ypos by \beamer@ypos@offset\relax
2563     \fi%
2564   \hbox to 0pt{%
2565     \beamer@tempdim=-\beamer@vboxoffset%
2566     \advance\beamer@tempdim by-\beamer@boxsize%
2567     \multiply\beamer@tempdim by\beamer@ypos%
2568     \advance\beamer@tempdim by -.05cm%
2569     \raise\beamer@tempdim\hbox{%
2570       \beamer@tempdim=\beamer@boxsize%
2571       \multiply\beamer@tempdim by\beamer@xpos%
2572       \advance\beamer@tempdim by -\beamer@boxsize%
2573       \advance\beamer@tempdim by 1pt%
2574       \kern\beamer@tempdim
2575       \global\beamer@section@min@dim\beamer@tempdim
2576       \hbox{\beamer@link(#4){}%
2577         \usebeamerfont{mini frame}}%
2578       \ifnum\c@section=#1%
2579         \ifnum\c@subsection=#2%

```



```

2580         \usebeamercolor[fg]{mini frame}%
2581         \ifnum\c@sectionslide=#3%
2582             \usebeamertemplate{mini frame}%\beamer@minislidehighlight%
2583         \else%
2584             \usebeamertemplate{mini frame in current subsection}%\beamer@minisliderowhighlight%
2585         \fi%
2586     \else%
2587         \usebeamercolor{mini frame}%
2588         %\color{fg!50!bg}%
2589         \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2590     \fi%
2591 \else%
2592     \usebeamercolor{mini frame}%
2593     %\color{fg!50!bg}%
2594     \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2595 \fi%
2596 }}}\hskip-10cm plus 1fil%
2597 }\fi\fi%
2598 \else%
2599 \fakeslideentry{#1}{#2}{#3}{#4}{#5}{#6}%
2600 \fi\ignorespaces
2601 }
2602
2603 \pgfdefobject{bidi@beamer@RTL@gotosymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2604 {
2605     \pgfpathmoveto{3.5bp}{0.5bp}
2606     \pgfpathqlineto{1.5bp}{2bp}
2607     \pgfpathqlineto{3.5bp}{3.5bp}
2608     \pgfusepathqfill
2609 }
2610
2611 \def\insertgotosymbol{%
2612 \if@RTL
2613     \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2614         \pgfuseobject{bidi@beamer@RTL@gotosymbol}%
2615     \end{pgfpicture}%
2616 \else
2617     \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2618         \pgfuseobject{beamer@gotosymbol}%
2619     \end{pgfpicture}%
2620 \fi
2621 }
2622
2623 \pgfdefobject{bidi@beamer@RTL@skipsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{7pt}{5pt}}
2624 {
2625     \pgfpathmoveto{5.5bp}{0.5bp}
2626     \pgfpathqlineto{3.5bp}{2bp}
2627     \pgfpathqlineto{5.5bp}{3.5bp}
2628     \pgfpathmoveto{3.5bp}{0.5bp}
2629     \pgfpathqlineto{1.5bp}{2bp}
2630     \pgfpathqlineto{3.5bp}{3.5bp}
2631     \pgfusepathqfill
2632 }
2633

```



```

2634 \def\insertskipsymbol{%
2635 \if@RTL
2636   \begin{pgfpicture}{-1pt}{0pt}{6pt}{5pt}
2637     \pgfuseobject{bidi@beamer@RTL@skipsymbol}%
2638   \end{pgfpicture}%
2639 \else
2640   \begin{pgfpicture}{1pt}{0pt}{8pt}{5pt}
2641     \pgfuseobject{beamer@skipsymbol}%
2642   \end{pgfpicture}%
2643 \fi
2644 }
2645
2646 \pgfdefobject{bidi@beamer@RTL@returnsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2647 {
2648   \pgfpathmoveto{1.5bp}{0.5bp}
2649   \pgfpathqlineto{3.5bp}{2bp}
2650   \pgfpathqlineto{1.5bp}{3.5bp}
2651   \pgfusepathqfill
2652 }
2653
2654 \def\insertreturnsymbol{%
2655 \if@RTL
2656   \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2657     \pgfuseobject{bidi@beamer@RTL@returnsymbol}%
2658   \end{pgfpicture}%
2659 \else
2660   \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2661     \pgfuseobject{beamer@returnsymbol}%
2662   \end{pgfpicture}%
2663 \fi
2664 }
2665
2666

```

## 24 File beamerbaseoverlay-xetex-bidi.def

```

2667 \ProvidesFile{beamerbaseoverlay-xetex-bidi.def}[2022/06/10 v0.1 bidi adaptations for beamer]
2668 \renewcommand<>{\color}{\alt#1{\beameroriginal{\color}}{\beamer@gobbleoptionalinsp}}
2669
2670

```

## 25 File beamerinnerthemedefault-xetex-bidi.def

```

2671 \ProvidesFile{beamerinnerthemedefault-xetex-bidi.def}[2022/06/27 v0.6 bidi adaptations for beamer]
2672 \newcommand*{\bidi@beamer@leftskip}{%
2673   \if@RTL
2674     \rightskip
2675   \else
2676     \leftskip
2677   \fi
2678 }
2679
2680 \newcommand*{\bidi@beamer@rightskip}{%
2681   \if@RTL

```





```

2682     \leftskip
2683   \else
2684     \rightskip
2685   \fi
2686 }
2687
2688 \bidi@csundef{beamer@@tmpop@subsection in toc@default}
2689
2690 \bidi@csundef{beamer@@tmpop@subsubsection in toc@default}
2691
2692 \defbeamertemplate*{subsection in toc}{default}
2693 {\leavevmode\bidi@beamer@leftskip=1.5em\inserttocsubsection\par}
2694
2695 \defbeamertemplate*{subsubsection in toc}{default}
2696 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em%
2697   \usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
2698
2699 \newcommand*{\bidi@beamer@blacktriangle}{%
2700   \if@RTL
2701     $\blacktriangleleft$%
2702   \else
2703     $\blacktriangleright$%
2704   \fi
2705 }
2706
2707 \bidi@csundef{beamer@@tmpop@itemize item@default}
2708
2709 \bidi@csundef{beamer@@tmpop@itemize subitem@default}
2710
2711 \bidi@csundef{beamer@@tmpop@itemize subsubitem@default}
2712
2713 \defbeamertemplate*{itemize item}{default}{\usebeamerfont*{itemize item}\raise1.25pt\hbox{\d
2714 \defbeamertemplate*{itemize subitem}{default}{\usebeamerfont*{itemize subitem}\raise1.5pt\hb
2715 \defbeamertemplate*{itemize subsubitem}{default}{\usebeamerfont*{itemize subsubitem}\raise1.
2716
2717 \bidi@undef\beamer@@tmpop@footnote@default
2718
2719 \defbeamertemplate*{footnote}{default}
2720 {
2721   \parindent 1em\noindent%
2722   \bidi@beamer@ragged
2723   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2724 }
2725
2726 \defbeamertemplate*{RTLfootnote}{default}
2727 {
2728   \parindent 1em\noindent%
2729   \raggedleft
2730   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2731 }
2732
2733 \defbeamertemplate*{LTRfootnote}{default}
2734 {
2735   \parindent 1em\noindent%

```



```

2736 \raggedright
2737 \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2738 }
2739
2740 \bidi@undef\beamer@@tmpop@caption@default
2741
2742 \defbeamertemplate*{caption}{default}
2743 {%
2744 \bidi@beamer@ragged
2745 {%
2746 \leavevmode
2747 \usebeamercolor[fg]{caption name}%
2748 \usebeamerfont*{caption name}%
2749 \insertcaptionname
2750 \usebeamertemplate{caption label separator}%
2751 }%
2752 \insertcaption\par
2753 }
2754
2755 \bidi@csundef{beamer@@tmpop@block begin@default}
2756
2757 \bidi@csundef{beamer@@tmpop@block alerted begin@default}
2758
2759 \bidi@csundef{beamer@@tmpop@block example begin@default}
2760
2761 \defbeamertemplate*{block begin}{default}
2762 {
2763 \par\vskip\medskipamount%
2764 \begin{beamercolorbox}[colsep*=.75ex]{block title}
2765 \usebeamerfont*{block title}\insertblocktitle%
2766 \end{beamercolorbox}%
2767 {\parskip0pt\par}%
2768 \ifbeamercoloreempty[bg]{block title}
2769 {}
2770 {\ifbeamercoloreempty[bg]{block body}{\nointerlineskip\vskip-0.5pt}}%
2771 \usebeamerfont{block body}%
2772 \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body}%
2773 \ifbeamercoloreempty[bg]{block body}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\baselineskip}%
2774 }
2775
2776 \defbeamertemplate*{block alerted begin}{default}
2777 {
2778 \par\vskip\medskipamount%
2779 \begin{beamercolorbox}[colsep*=.75ex]{block title alerted}
2780 \usebeamerfont*{block title alerted}\insertblocktitle%
2781 \end{beamercolorbox}%
2782 {\parskip0pt\par}%
2783 \ifbeamercoloreempty[bg]{block title alerted}
2784 {}
2785 {\ifbeamercoloreempty[bg]{block body alerted}{\nointerlineskip\vskip-0.5pt}}%
2786 \usebeamerfont{block body alerted}%
2787 \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body alerted}%
2788 \ifbeamercoloreempty[bg]{block body alerted}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\baselineskip}%
2789 }

```



```

2790
2791 \defbeamertemplate*{block example begin}{default}
2792 {
2793   \par\vskip\medskipamount%
2794   \begin{beamercolorbox}[colsep*=.75ex]{block title example}
2795     \usebeamerfont*{block title example}\insertblocktitle%
2796   \end{beamercolorbox}%
2797   {\parskip0pt\par}%
2798   \ifbeamercoloreempty[bg]{block title example}
2799   {}
2800   {\ifbeamercoloreempty[bg]{block body example}{\nointerlineskip\vskip-0.5pt}}%
2801   \usebeamerfont{block body example}%
2802   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body example}%
2803     \ifbeamercoloreempty[bg]{block body example}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex}
2804   }
2805
2806 \bidi\csundef{beamer@@tmpop@abstract begin@default}
2807
2808 \defbeamertemplate*{abstract begin}{default}
2809 {\beamercolorbox[vmode]{abstract}\bidi@beamer@leftskip2em\bidi@beamer@rightskip2em plus 1fil}
2810
2811 \bidi\undef{beamer@@tmpop@button@default}
2812
2813 \defbeamertemplate*{button}{default}
2814 {%
2815   \setbox\beamer@tempbox=\hbox{\insertbuttontext}%
2816   \ht\beamer@tempbox=6pt%
2817   \dp\beamer@tempbox=0pt%
2818   \setbox\beamer@tempbox=\vbox{\box\beamer@tempbox\vskip2pt}%
2819   \beamer@tempdim=\wd\beamer@tempbox%
2820   \beamer@dima=\beamer@tempdim\advance\beamer@dima by2.2pt
2821   \beamer@dimb=\beamer@tempdim\advance\beamer@dimb by4pt
2822   \if@RTL
2823     \kern4pt%
2824     \box\beamer@tempbox%
2825     \hskip-\beamer@tempdim%
2826   \fi
2827   \begin{pgfpicture}{-4pt}{0pt}{\the\beamer@tempdim}{8pt}
2828     \color{bg}
2829     \pgfsetlinewidth{0.8pt}
2830     \pgfpathqmoveto{0pt}{0pt}
2831     \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2832     \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2833     \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2834     \pgfpathcurveto%
2835       {\pgfpoint{\the\beamer@dima}{8pt}}%
2836       {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
2837       {\pgfpoint{\the\beamer@dimb}{4pt}}
2838     \pgfpathcurveto%
2839       {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
2840       {\pgfpoint{\the\beamer@dima}{0pt}}%
2841       {\pgfpoint{\the\beamer@tempdim}{0pt}}
2842     \pgfpathclose
2843     \pgfusepathqfill

```



```

2844 \colorlet{bg}{parent.bg}
2845 \usebeamercolor[fg]{button border}
2846 \pgfpathmoveto{0pt}{0pt}
2847 \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2848 \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2849 \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2850 \pgfpathcurveto%
2851 {\pgfpoint{\the\beamer@dima}{8pt}}%
2852 {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
2853 {\pgfpoint{\the\beamer@dimb}{4pt}}
2854 \pgfpathcurveto%
2855 {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
2856 {\pgfpoint{\the\beamer@dima}{0pt}}%
2857 {\pgfpoint{\the\beamer@tempdim}{0pt}}
2858 \pgfpathclose
2859 \pgfusepathqstroke
2860 \end{pgfpicture}%
2861 \ifRTL
2862 \else
2863 \hskip-\beamer@tempdim%
2864 \box\beamer@tempbox%
2865 \kern4pt%
2866 \fi
2867 }
2868
2869

```

## 26 File beamerinnerthemecircles-xetex-bidi.def

```

2870 \ProvidesFile{beamerinnerthemecircles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations for b
2871 \setbeamertemplate{sections/subsections in toc}[circle]
2872

```

## 27 File beamerinnerthemefocus-xetex-bidi.def

```

2873 \ProvidesFile{beamerinnerthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea
2874 \setbeamertemplate{section in toc}[square]
2875 \setbeamertemplate{subsection in toc}[square]
2876
2877 \setbeamertemplate{itemize items}[square]
2878 \setbeamertemplate{itemize subitem}[triangle]
2879
2880 \bidi@csundef{beamer@@tmpop@title page@focus}
2881
2882 \defbeamertemplate*{title page}{focus}{%
2883   {%
2884     \usebeamercolor{frametitle}\colorlet{focus@@temp}{bg}%
2885     \begin{tikzpicture}[overlay, remember picture]
2886       \fill[color=focus@@temp] (current page.north west) rectangle ([shift = {(0, -0.4
2887     \end{tikzpicture}
2888   }
2889
2890   \vspace{-1.65\baselineskip}
2891   \begin{minipage}[b] [0.35\paperheight]{\textwidth}

```



```

2892         \vspace{\baselineskip}
2893         \usebeamerfont{title}
2894         \usebeamercolor[fg]{frametitle}
2895         \inserttitle
2896     \end{minipage}
2897
2898     \begin{minipage}[t][0.1\paperheight]{\textwidth}
2899         \usebeamerfont{subtitle}
2900         \usebeamercolor[fg]{frametitle}
2901         \insertsubtitle
2902     \end{minipage}
2903
2904     % Set the title graphic in a zero-height box, so that
2905     % the position of other elements is not affected.
2906     {\vfuzz=9999pt\vbox to 0pt {
2907         \if@RTL
2908             \raggedright
2909         \else
2910             \raggedleft
2911         \fi
2912         \inserttitlegraphic
2913     }}
2914
2915     \begin{minipage}[t]{\textwidth}
2916         \usebeamerfont{author}
2917         \insertauthor
2918     \end{minipage}
2919
2920     \vspace*{\baselineskip}
2921     \begin{minipage}[t]{\textwidth}
2922         \usebeamerfont{institute}
2923         \insertinstitute
2924     \end{minipage}
2925
2926     \vspace*{\baselineskip}
2927     \begin{minipage}[t]{\textwidth}
2928         \usebeamerfont{date}
2929         \insertdate
2930     \end{minipage}
2931
2932     \vspace*{0pt plus 100fill}
2933
2934     \addtocounter{framenum}{-1}
2935     \addtocounter{realframenum}{-1}
2936 }
2937
2938
2939

```

## 28 File beamerinnerthemeinmargin-xetex-bidi.def

```

2940 \ProvidesFile{beamerinnerthemeinmargin-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for
2941 \AtBeginDocument{%
2942     \setbeamersize{sidebar width left=.25\paperwidth}%

```



```

2943 }
2944
2945 \bidi@csundef{beamer@@tmpop@section in toc@inmargin}
2946
2947 \bidi@csundef{beamer@@tmpop@title page@inmargin}
2948
2949 \bidi@csundef{beamer@@tmpop@block begin@inmargin}
2950
2951 \bidi@csundef{beamer@@tmpop@block end@inmargin}
2952
2953 \bidi@csundef{beamer@@tmpop@block alerted begin@inmargin}
2954
2955 \bidi@csundef{beamer@@tmpop@block alerted end@inmargin}
2956
2957 \bidi@csundef{beamer@@tmpop@block example begin@inmargin}
2958
2959 \bidi@csundef{beamer@@tmpop@block example end@inmargin}
2960
2961 \defbeamertemplate*{section in toc}{inmargin}
2962 {\leavevmode
2963   \beamer@putleft{\usebeamercolor[fg]{section in toc}\inserttocsection}\strut}{2.5ex}}
2964
2965 \defbeamertemplate*{title page}{inmargin}
2966 {
2967   \begin{block}{\inserttitleindicator}
2968     \bgroup\usebeamercolor[fg]{title}\usebeamerfont{title}\inserttitle\egroup\par
2969     \usebeamercolor[fg]{subtitle}\usebeamerfont{subtitle}\insertsubtitle
2970   \end{block}
2971   \vfill
2972   \ifx\insertauthor\@empty
2973   \else
2974     \begin{block}{\insertauthorindicator}
2975       \bgroup\usebeamercolor[fg]{author}\usebeamerfont{author}\insertauthor\egroup\par
2976     \end{block}
2977   \fi
2978   \ifx\insertinstitute\@empty
2979   \else
2980     \begin{block}{\insertinstituteindicator}
2981       \bgroup\usebeamercolor[fg]{institute}\usebeamerfont{institute}\insertinstitute\egroup\par
2982     \end{block}
2983   \fi
2984   \ifx\insertdate\@empty
2985   \else
2986     \begin{block}{\insertdateindicator}
2987       \bgroup\usebeamercolor[fg]{date}\usebeamerfont{date}\insertdate\egroup\par
2988     \end{block}
2989   \fi
2990 }
2991
2992 \defbeamertemplate*{block begin}{inmargin}
2993 {
2994   \par\vskip\medskipamount%
2995   \leavevmode%
2996   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title}\usebeamerfont*{block title}\i

```



```

2997 \beginL\beamer@putright
2998 %\usebeamercolor[fg]{block body}% to be done!
2999 }
3000
3001 \defbeamertemplate*{block end}{inmargin}
3002 {\endbeamer@putright\endL\vskip\smallskipamount}
3003
3004 \defbeamertemplate*{block alerted begin}{inmargin}
3005 {
3006 \par\vskip\medskipamount%
3007 \leavevmode%
3008 \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title alerted}}\usebeamerfont*{block
3009 \beginL\beamer@putright
3010 %\usebeamercolor[fg]{block body alerted}% to be done!
3011 }
3012
3013 \defbeamertemplate*{block alerted end}{inmargin}
3014 {\endbeamer@putright\endL\vskip\smallskipamount}
3015
3016 \defbeamertemplate*{block example begin}{inmargin}
3017 {
3018 \par\vskip\medskipamount%
3019 \leavevmode%
3020 \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title example}}\usebeamerfont*{block
3021 \beginL\beamer@putright
3022 %\usebeamercolor[fg]{block body example}% to be done
3023 }
3024
3025 \defbeamertemplate*{block example end}{inmargin}
3026 {\endbeamer@putright\endL\vskip\smallskipamount}
3027
3028 \bidi@AfterFile{beamerinnerthememetropolis-xetex-bidi.def}{%
3029 \setbeamertemplate{section in toc}[inmargin]%
3030 \setbeamertemplate{subsection in toc}[inmargin]%
3031 \setbeamertemplate{subsubsection in toc}[inmargin]%
3032 }
3033
3034

```

## 29 File beamerinnerthememetropolis-xetex-bidi.def

```

3035 \ProvidesFile{beamerinnerthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
3036 \setbeamertemplate{title}{
3037 \bidi@beamer@ragged%
3038 \linespread{1.0}%
3039 \inserttitle%
3040 \par%
3041 \vspace*{0.5em}
3042 }
3043
3044 \setbeamertemplate{subtitle}{
3045 \bidi@beamer@ragged%
3046 \insertsubtitle%
3047 \par%

```



```

3048 \vspace*{0.5em}
3049 }
3050
3051 \bidi@csundef{beamer@@tmpop@section page@progressbar}
3052
3053 \defbeamertemplate{section page}{progressbar}{
3054 \centering
3055 \begin{minipage}{22em}
3056 \bidi@beamer@ragged
3057 \usebeamercolor{fg}{section title}
3058 \usebeamerfont{section title}
3059 \insertsectionhead\[-1ex]
3060 \usebeamertemplate*{progress bar in section page}
3061 \par
3062 \ifx\insertsubsectionhead\@empty\else%
3063 \usebeamercolor{fg}{subsection title}%
3064 \usebeamerfont{subsection title}%
3065 \insertsubsectionhead
3066 \fi
3067 \end{minipage}
3068 \par
3069 \vspace{\baselineskip}
3070 }
3071
3072 \setbeamertemplate{progress bar in section page}{
3073 \setlength{\metropolis@progressonsectionpage}{%
3074 \textwidth * \ratio{\insertframenumber pt}{\inserttotalframenumber pt}}%
3075 }%
3076 \begin{tikzpicture}
3077 \fill[bg] (0,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3078 \if@RTLmain
3079 \fill[fg] (\textwidth-\metropolis@progressonsectionpage,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3080 \else
3081 \fill[fg] (0,0) rectangle (\metropolis@progressonsectionpage, \metropolis@progressonsectionpage@linewidth);
3082 \fi
3083 \end{tikzpicture}%
3084 }
3085
3086 \renewcommand{\metropolis@block}[1]{
3087 \par\vskip\medskipamount%
3088 \setlength{\parskip}{0pt}
3089 \ifbeamercolorempy[bg]{block title#1}{%
3090 \if@RTL
3091 \begin{beamercolorbox}[leftskip=0pt plus 4em]{block title#1}%
3092 \else
3093 \begin{beamercolorbox}[rightskip=0pt plus 4em]{block title#1}%
3094 \fi
3095 }{%
3096 \ifbeamercolorempy[bg]{block title}{%
3097 \if@RTL
3098 \begin{beamercolorbox}[leftskip=0pt plus 4em]{block title#1}%
3099 \else
3100 \begin{beamercolorbox}[rightskip=0pt plus 4em]{block title#1}%
3101 \fi

```





```

3102 }%
3103 {%
3104 \if@RTL
3105   \begin{beamercolorbox}[
3106     sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3107     rightskip=\metropolis@blockadjust,
3108     leftskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3109   ]{block title#1}%
3110   \else
3111   \begin{beamercolorbox}[
3112     sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3113     leftskip=\metropolis@blockadjust,
3114     rightskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3115   ]{block title#1}%
3116   \fi
3117 }}%
3118   \usebeamerfont*{block title#1}%
3119   \metropolis@strut%
3120   \insertblocktitle%
3121   \metropolis@strut%
3122 \end{beamercolorbox}%
3123 \nointerlineskip%
3124 \ifbeamercoloreempty[bg]{block body#1}{%
3125   \begin{beamercolorbox}[vmode]{block body#1}}{
3126   \ifbeamercoloreempty[bg]{block body}{%
3127     \begin{beamercolorbox}[vmode]{block body#1}%
3128   }{%
3129     \begin{beamercolorbox}[sep=\metropolis@blocksep, vmode]{block body#1}%
3130     \vspace{-\metropolis@parskip}
3131   }}%
3132   \usebeamerfont{block body#1}%
3133   \setlength{\parskip}{\metropolis@parskip}%
3134 }
3135
3136
3137 \setbeamertemplate{footnote}{%
3138   \parindent 0em\noindent%
3139   \bidi@beamer@ragged
3140   \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3141 }
3142
3143 \setbeamertemplate{RTLfootnote}{%
3144   \parindent 0em\noindent%
3145   \raggedleft
3146   \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3147 }
3148
3149 \setbeamertemplate{LTRfootnote}{%
3150   \parindent 0em\noindent%
3151   \raggedright
3152   \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3153 }
3154
3155 \setbeamertemplate{itemize items}{\textbullet}

```



```

3156
3157 \setbeamertemplate{section page}[progressbar]
3158
3159

```

## 30 File beamerinnerthemerectangles-xetex-bidi.def

```

3160 \ProvidesFile{beamerinnerthemerectangles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations for b
3161 \setbeamertemplate{sections/subsections in toc}[square]
3162 \setbeamertemplate{items}[square]
3163

```

## 31 File beamerinnerthemerounded-xetex-bidi.def

```

3164 \ProvidesFile{beamerinnerthemerounded-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for b
3165 \setbeamertemplate{blocks}[rounded] [shadow=\beamer@themerounded@shadow]
3166 \setbeamertemplate{items}[ball]
3167 \setbeamertemplate{sections/subsections in toc}[ball]
3168

```

## 32 File beamerouterthemedefault-xetex-bidi.def

```

3169 \ProvidesFile{beamerouterthemedefault-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for b
3170 \def\beamer@fteleft{\if@RTLmain\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightskip by1.
3171
3172 \def\beamer@fteright{\if@RTLmain\else\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightski
3173
3174 \AtBeginDocument{%
3175   \if@RTLmain
3176     \setbeamertemplate{frametitle}[default] [right]
3177   \fi
3178 }
3179
3180 \bidi@csundef{beamer@@tmpop@note page@default}
3181
3182 \newcommand*{\bidi@beamer@today}{%
3183 \the\year-\ifnum\month<10\relax0\fi\the\month-\ifnum\day<10\relax0\fi\the\day}
3184
3185 \defbeamertemplate*{note page}{default}
3186 {%
3187   {%
3188     \scriptsize
3189     \usebeamerfont{note title}\usebeamercolor[fg]{note title}%
3190     \ifbeamercolorempy[bg]{note title}{\}%
3191     \insertvrule{.25\paperheight}{note title.bg}%
3192     \vskip-.25\paperheight%
3193     \nointerlineskip%
3194   }%
3195   \vbox{
3196     \hfill\insertslideintonotes{0.25}\hskip-\Gm@rmargin\hskip0pt%
3197     \vskip-0.25\paperheight%
3198     \nointerlineskip
3199     \if@RTL
3200     \begin{pgfpicture}{-\textwidth}{0cm}{-\textwidth}{0cm}

```



```

3201         \begin{pgflowlevelslope}{\pgftransformrotate{-90}}
3202         {\pgftransformshift{\pgfpoint{2cm}{0.2cm}}}%
3203         \pgftext[base,right]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3204         \end{pgflowlevelslope}
3205         \end{pgfpicture}%
3206         \else
3207         \begin{pgfpicture}{0cm}{0cm}{0cm}{0cm}
3208         \begin{pgflowlevelslope}{\pgftransformrotate{90}}
3209         {\pgftransformshift{\pgfpoint{-2cm}{0.2cm}}}%
3210         \pgftext[base,left]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3211         \end{pgflowlevelslope}
3212         \end{pgfpicture}%
3213         \fi}
3214         \nointerlineskip
3215         \vbox to .25\paperheight{\vskip0.5em
3216         \if@RTL
3217         \moveright0.25\textwidth
3218         \fi
3219         \hbox{\insertshorttitle[width=0.75\textwidth]}}%
3220         \setbox\beamer@tempbox=\hbox{\insertsection}%
3221
3222         \if@RTL
3223         \moveright\dimexpr0.29\textwidth-14pt\relax
3224         \fi
3225         \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip4pt\raise3pt\hbox{\vrule
3226         width0.4pt height7pt\vrule width 9pt
3227         height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}}
3228         \if@RTL\endR\fi}%
3229         \setbox\beamer@tempbox=\hbox{\insertsubsection}%
3230
3231         \if@RTL
3232         \moveright\dimexpr0.29\textwidth-27.4pt\relax
3233         \fi
3234         \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip17.4pt\raise3pt\hbox{\vrule
3235         width0.4pt height7pt\vrule width 9pt
3236         height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}}
3237         \if@RTL\endR\fi}%
3238         \setbox\beamer@tempbox=\hbox{\insertshortframetitle}%
3239
3240         \if@RTL
3241         \moveright\dimexpr0.33\textwidth-40.8pt\relax
3242         \fi
3243         \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip30.8pt\raise3pt\hbox{\vrule
3244         width0.4pt height7pt\vrule width 9pt
3245         height0.4pt}}\hskip1pt\hbox{\insertshortframetitle[width=0.67\textwidth]}\fi%
3246         \vfil}%
3247         }%
3248         \ifbeamercolorempty[bg]{note page}{-}{%
3249         \nointerlineskip%
3250         \insertvrule{.75\paperheight}{note page.bg}%
3251         \vskip-.75\paperheight%
3252         }%
3253         \vskip.25em
3254         \nointerlineskip
3255         \insertnote

```



```

3255 }
3256
3257
3258

```

### 33 File beamerouterthemefocus-xetex-bidi.def

```

3259 \ProvidesFile{beamerouterthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea
3260 \bidi@undef\beamer@tmpop@footline@progressbar
3261
3262 \defbeamertemplate*{footline}{progressbar}{%
3263   % If not appendix.
3264   \ifnum\mainend<0% From package appendixnumberbeamer.
3265     %
3266     \settowidth{\focus@pbar@leftoffset}{1}%
3267     \addtolength{\focus@pbar@leftoffset}{1.5em}%
3268     %
3269     \ifx\beamer@focus@totalframenumbering\no%
3270       \settowidth{\focus@pbar@rightoffset}{}%
3271       \addtolength{\focus@pbar@rightoffset}{0.5em}%
3272     \else%
3273       \settowidth{\focus@pbar@rightoffset}{\inserttotalframenumber}%
3274       \addtolength{\focus@pbar@rightoffset}{1.5em}%
3275     \fi%
3276     %
3277     % If not title page.
3278     \ifnum\value{realframenumber}>0%
3279       \ifnum\value{framenumber}<\inserttotalframenumber%
3280         \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]\usebeamerfont{footli
3281           \pgfmathsetmacro{\focus@pbar@progress}%
3282             {(\paperwidth-\focus@pbar@leftoffset-\focus@pbar@rightoffset)*(\inse
3283
3284           \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3285 \if@RTLmain
3286           \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@leftoff
3287           \fill[footline.bg] (\paperwidth-\the\focus@pbar@leftoffset,0) rectangle
3288             ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=west,
3289 \else
3290           \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@leftoffset,\the\fo
3291           \fill[footline.bg] (\the\focus@pbar@leftoffset,0) rectangle ++(\focus@pb
3292             ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=east,
3293 \fi
3294           \ifx\beamer@focus@totalframenumbering\no%
3295           \else%
3296 \if@RTLmain
3297           \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@rightoffset,\t
3298             ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=e
3299 \else
3300           \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@rig
3301             ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=w
3302 \fi
3303           \fi%
3304           \end{tikzpicture}%
3305 \else%

```



```

3306          \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]
3307              \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3308              \fill[footline.bg] (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3309          \if@RTLmain
3310              \node[anchor=west, footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}){\footline.fg};
3311          \else
3312              \node[anchor=east, footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}){\footline.fg};
3313          \fi
3314          \ifx\beamer@focus@totalframenummering\no%
3315              \else%
3316          \if@RTLmain
3317              \node[footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}){\footline.fg};
3318              \node[anchor=east, footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}){\footline.fg};
3319          \else
3320              \node[footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}){\footline.fg};
3321              \node[anchor=west, footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}){\footline.fg};
3322          \fi
3323          \fi%
3324          \end{tikzpicture}%
3325          \fi%
3326          \fi%
3327      \fi%
3328  }
3329
3330

```

## 34 File beamerouterthemeinfolines-xetex-bidi.def

```

3331 \ProvidesFile{beamerouterthemeinfolines-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for xetex]
3332 \bidi@csundef{beamer@tmpop@footline@infolines theme}
3333
3334 \defbeamertemplate*{footline}{infolines theme}
3335 {%
3336   \leavevmode%
3337   \hbox{%
3338     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{author in head/foot}%
3339       \usebeamerfont{author in head/foot}\insertshortauthor\expandafter\ifblank\expandafter{\beamer@shortauthor}%
3340     \end{beamercolorbox}%
3341     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{title in head/foot}%
3342       \usebeamerfont{title in head/foot}\insertshorttitle
3343     \end{beamercolorbox}%
3344     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,leftskip=2ex,rightskip=2ex,center]{date in head/foot}%
3345       \hfill%
3346       \usebeamerfont{date in head/foot}%
3347       \insertshortdate{}%
3348       \hfill%
3349     \bgroup
3350       \usebeamerfont[fg]{page number in head/foot}%
3351       \usebeamerfont{page number in head/foot}%
3352       \usebeamerfont{page number in head/foot}%
3353     \egroup
3354   \end{beamercolorbox}}%
3355   \vskip0pt%
3356 }

```



```

3357
3358 \bidi@csundef{beamer@tmpop@headline@infolines theme}
3359
3360 \defbeamertemplate*{headline}{infolines theme}
3361 {%
3362   \leavevmode%
3363   \hbox{%
3364     \if@RTL
3365       \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{section in head/foot}%
3366     \else
3367       \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{section in head/foot}%
3368     \fi
3369     \usebeamerfont{section in head/foot}\insertsectionhead\hspace*{2ex}
3370     \end{beamercolorbox}}%
3371   \if@RTL
3372     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{subsection in head/foot}%
3373   \else
3374     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{subsection in head/foot}%
3375   \fi
3376     \usebeamerfont{subsection in head/foot}\hspace*{2ex}\insertsubsectionhead
3377     \end{beamercolorbox}}%
3378   \vskip0pt%
3379 }
3380
3381 \bidi@AfterFile{beamerouterthememetropolis-xetex-bidi.def}{%
3382   \setbeamertemplate{footline}{infolines theme}%
3383 }
3384

```

## 35 File beamerouterthememetropolis-xetex-bidi.def

```

3385 \ProvidesFile{beamerouterthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for]
3386 \setbeamertemplate{progress bar in head/foot}{
3387   \nointerlineskip
3388   \setlength{\metropolis@progressinheadfoot}{%
3389     \paperwidth * \ratio{\insertframenumber pt}{\inserttotalframenumber pt}}%
3390   }%
3391   \begin{beamercolorbox}[wd=\paperwidth]{progress bar in head/foot}
3392     \begin{tikzpicture}
3393       \fill[bg] (0,0) rectangle (\paperwidth, \metropolis@progressinheadfoot\linewidth);
3394     \if@RTLmain
3395       \fill[fg] (\paperwidth-\metropolis@progressinheadfoot,0) rectangle (\paperwidth, \metropolis@progressinheadfoot\linewidth);
3396     \else
3397       \fill[fg] (0,0) rectangle (\metropolis@progressinheadfoot, \metropolis@progressinheadfoot\linewidth);
3398     \fi
3399     \end{tikzpicture}%
3400   \end{beamercolorbox}
3401 }
3402
3403 \AtBeginDocument{%
3404   \setbeamertemplate{frametitle}[plain]%
3405 }
3406
3407

```



## 36 File beamerouterthememiniframes-xetex-bidi.def

```
3408 \ProvidesFile{beamerouterthememiniframes-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for
3409 \bidi@csundef{beamer@tmpop@headline@miniframes theme}
3410
3411 \defbeamertemplate*{headline}{miniframes theme}
3412 {%
3413   \begin{beamercolorbox}[colsep=1.5pt]{upper separation line head}
3414   \end{beamercolorbox}
3415   \begin{beamercolorbox}{section in head/foot}
3416     \vskip2pt\if@RTL\beginR\fi\insertnavigation{\paperwidth}\if@RTL\endR\fi\vskip2pt
3417   \end{beamercolorbox}%
3418   \ifbeamer@theme@subsection%
3419     \begin{beamercolorbox}[colsep=1.5pt]{middle separation line head}
3420     \end{beamercolorbox}
3421     \if@RTL
3422     \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3423       rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3424     \else
3425     \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3426       leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3427     \fi
3428     \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3429     \end{beamercolorbox}%
3430   \fi%
3431   \begin{beamercolorbox}[colsep=1.5pt]{lower separation line head}
3432   \end{beamercolorbox}
3433 }
3434
3435
```

## 37 File beamerouterthemesidebar-xetex-bidi.def

```
3436 \ProvidesFile{beamerouterthemesidebar-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for b
3437 \bidi@csundef{beamer@tmpop@frametitle@sidebar theme}
3438
3439 \bidi@csundef{beamer@tmpop@headline@sidebar theme}
3440
3441 \bidi@csundef{beamer@tmpop@sidebar left@sidebar theme}
3442
3443 \bidi@csundef{beamer@tmpop@sidebar right@sidebar theme}
3444
3445 \ifdim\beamer@headheight>0pt
3446
3447   \defbeamertemplate*{frametitle}{sidebar theme}
3448   {%
3449     \nointerlineskip%
3450     \ifbeamer@plainframe%
3451       \hbox{\usebeamercolor[bg]{frametitle}%
3452         \@tempdima\paperwidth\advance\@tempdima-\beamer@sidebarwidth
3453         \hskip-\beamer@leftmargin\vrule height\beamer@headheight width\@tempdima\hskip-\bea
3454       \nointerlineskip%
3455     \fi%
3456     \vskip-\beamer@headheight%
```



```

3457 \vbox to \beamer@headheight{%
3458 \vfil
3459 \bidi@beamer@leftskip=-\beamer@leftmargin%
3460 \advance\bidi@beamer@leftskip by0.3cm%
3461 \bidi@beamer@rightskip=-\beamer@rightmargin%
3462 \advance\bidi@beamer@rightskip by0.3cm plus1fil%
3463 {\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframetitle\par}
3464 \ifx\insertframesubtitle\@empty\else%
3465 {\usebeamercolor[fg]{framesubtitle}\usebeamerfont{framesubtitle}\strut\insertframesubtitle\par}
3466 \fi%
3467 \vbox{}%
3468 \vskip-1em%
3469 \vfil
3470 }%
3471 }
3472
3473 \AtBeginDocument{%
3474 \setbeamertemplate{frametitle}[sidebar theme]%
3475 }
3476
3477 \defbeamertemplate*{headline}{sidebar theme}
3478 {%
3479 \begin{beamercolorbox}[wd=\paperwidth]{frametitle}
3480 \ifx\beamer@sidebarside\beamer@lefttext%
3481 \else%
3482 \hfill%
3483 \fi%
3484 \ifdim\beamer@sidebarwidth>0pt%
3485 \bgroup
3486 \usebeamercolor[bg]{logo}%
3487 \if@RTLmain
3488 \else
3489 \vrule width\beamer@sidebarwidth height \beamer@headheight%
3490 \hskip-\beamer@sidebarwidth%
3491 \fi
3492 \hbox to \beamer@sidebarwidth{\hss\vbox to
3493 \beamer@headheight{\vss\hbox{{\color{fg}\insertlogo}}\vss}\hss}%
3494 \if@RTLmain
3495 \hskip-\beamer@sidebarwidth%
3496 \vrule width\beamer@sidebarwidth height \beamer@headheight%
3497 \fi
3498 \egroup
3499 \else%
3500 \vrule width0pt height \beamer@headheight%
3501 \fi%
3502 \end{beamercolorbox}
3503 }
3504 \fi
3505
3506 \def\beamer@sidebarformat#1#2#3{%
3507 \if@RTL
3508 \begin{beamercolorbox}[wd=\beamer@sidebarwidth,rightskip=#1,leftskip=1ex plus1fil,vmode]{#2}
3509 \else
3510 \begin{beamercolorbox}[wd=\beamer@sidebarwidth,leftskip=#1,rightskip=1ex plus1fil,vmode]{#2}

```





```

3511 \fi
3512   \vbox{}%
3513   #3\par%
3514   \vbox{}%
3515   \vskip-1.5ex%
3516 \end{beamercolorbox}
3517 }
3518
3519 \ifdim\beamer@sidebarwidth>0pt
3520
3521 \AtBeginDocument{%
3522   \setbeamersize{sidebar width \beamer@sidebarside=\beamer@sidebarwidth}%
3523 }
3524
3525 \defbeamer*{sidebar \beamer@sidebarside}{sidebar theme}
3526 {
3527   \beamer@tempdim=\beamer@sidebarwidth%
3528   \advance\beamer@tempdim by -6pt%
3529   {\usebeamerfont{title in sidebar}%
3530     \vskip1.5em%
3531     \hskip3pt%
3532     \bgroup
3533     \usebeamercolor[fg]{title in sidebar}%
3534     \insertshorttitle[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3535     \vskip1.25em%
3536   }%
3537   {%
3538     \hskip3pt%
3539     \bgroup
3540     \usebeamercolor[fg]{author in sidebar}%
3541     \usebeamerfont{author in sidebar}%
3542     \insertshortauthor[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3543     \vskip1.25em%
3544   }%
3545   \insertverticalnavigation{\beamer@sidebarwidth}%
3546   \vfill
3547   \ifx\beamer@sidebarside\beamer@lefttext%
3548   \else%
3549     \usebeamercolor{normal text}%
3550     \llap{\usebeamer*{navigation symbols}\hskip0.1cm}%
3551     \vskip2pt%
3552   \fi%
3553   }%
3554 \fi
3555

```

### 38 File beamerouterthemesplit-xetex-bidi.def

```

3556 \ProvidesFile{beamerouterthemesplit-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for bea
3557 \bidi\csundef{beamer@tmpop@footline@split theme}
3558
3559 \defbeamer*{footline}{split theme}
3560 {%
3561   \leavevmode%

```



```

3562 \hbox{\if@RTL\begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm pl
3563 \else
3564 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm plus1fill,rightski
3565 \fi
3566 \usebeamerfont{author in head/foot}\insertshortauthor
3567 \end{beamercolorbox}}%
3568 \if@RTL
3569 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm,leftskip=.3cm
3570 \else
3571 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm,rightskip=.3cm p
3572 \fi
3573 \usebeamerfont{title in head/foot}\insertshorttitle\nobreak\hfill\bgroup\usebeamercolor[
3574 \end{beamercolorbox}}}%
3575 \vskip0pt%
3576 }
3577
3578

```

### 39 File beamerouterthemeshadow-xetex-bidi.def

```

3579 \ProvidesFile{beamerouterthemeshadow-xetex-bidi.def}[2022/06/11 v0.3 bidi adaptations for be
3580 \pgfdeclarehorizontalshading[frametitle.bg,frametitle right.bg]{bidi@beamer@RTL@frametitlesh
3581 color(0pt)=(frametitle right.bg);
3582 color(\paperwidth)=(frametitle.bg)
3583 }
3584
3585 \newcommand*{\bidi@beamer@frametitleshade}{%
3586 \if@RTLmain
3587 \pgfuses shading{bidi@beamer@RTL@frametitleshade}%
3588 \else
3589 \pgfuses shading{beamer@frametitleshade}%
3590 \fi
3591 }
3592
3593 \bidi@csundef{beamer@@tmpop@frametitle@shadow theme}
3594
3595 \defbeamertemplate*{frametitle}{shadow theme}
3596 {%
3597 \nointerlineskip%
3598 \vskip-2pt%
3599 \hbox{\leavevmode
3600 \advance\beamer@leftmargin by -12bp%
3601 \advance\beamer@rightmargin by -12bp%
3602 \beamer@tempdim=\textwidth%
3603 \advance\beamer@tempdim by \beamer@leftmargin%
3604 \advance\beamer@tempdim by \beamer@rightmargin%
3605 \hskip-\Gm@lmargin\hbox{%
3606 \setbox\beamer@tempbox=\hbox{\begin{minipage}[b]{\paperwidth}%
3607 \vbox{} \vskip-.75ex%
3608 \bidi@beamer@leftskip0.3cm%
3609 \bidi@beamer@rightskip0.3cm plus1fil\leavevmode
3610 \bgroup\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframe
3611 \ifx\insertframesubtitle\@empty\else%
3612 {\usebeamerfont*{framesubtitle}\usebeamercolor[fg]{framesubtitle}\insertframesub

```



```

3613         \fi%
3614         \nointerlineskip
3615         \vbox{}%
3616         \end{minipage}}%
3617     \beamer@tempdim=\ht\beamer@tempbox%
3618     \advance\beamer@tempdim by 2pt%
3619     \begin{pgfpicture}{0pt}{0pt}{\paperwidth}{\beamer@tempdim}
3620     \begin{pgfscope}
3621         \pgfsetfillcolor{black}%
3622         \pgfpathrectangle{\pgfpoint{0pt}{-4pt}}{\pgfpoint{\paperwidth}{8pt}}%
3623         \pgfsetfading{beamer@topshadowmask}{}%
3624         \pgfusepath{fill}%
3625     \end{pgfscope}
3626     \begin{pgfscope}
3627         \usebeamercolor{frametitle right}%
3628         \pgfpathrectangle{\pgfpointorigin}{\pgfpoint{\paperwidth}{\beamer@tempdim}}%
3629         \pgfusepath{clip}%
3630         \pgftext[left,base]{\bidi@beamer@frametitleshade}%
3631     \end{pgfscope}
3632     \end{pgfpicture}
3633     \hskip-\paperwidth%
3634     \box\beamer@tempbox%
3635 }%
3636 \hskip-\Gm@rmargin%
3637 }%
3638 \vskip-2pt
3639 }
3640
3641 \AtBeginDocument{%
3642     \setbeamertemplate{frametitle}[shadow theme]%
3643 }
3644
3645

```

## 40 File beamerouterthemesmoothbars-xetex-bidi.def

```

3646 \ProvidesFile{beamerouterthemesmoothbars-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for]
3647 \bidi@csundef{beamer@tmpop@headline@smoothbars theme}
3648
3649 \bidi@csundef{beamer@tmpop@frametitle@smoothbars theme}
3650
3651 \defbeamertemplate*{headline}{smoothbars theme}
3652 {%
3653     \pgfuses shading{beamer@barshade}%
3654     \vskip-0.05ex%
3655     \begin{beamer colorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3656     \begin{pgfpicture}
3657         \begin{pgfscope}%
3658             \ifbeamer@sb@subsection%
3659                 \pgfsetfillcolor{subsection in head/foot.bg}%
3660             \else%
3661                 \pgfsetfillcolor{section in head/foot.bg}%
3662             \fi%
3663             \pgfpathrectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%

```



```

3664     \pgfsetfading{beamer@belowframetitlemask}{}%
3665     \pgfusepath{fill}%
3666     \end{pgfscope}%
3667 \end{pgfpicture}%
3668 \end{beamercolorbox}%
3669 \ifbeamer@sb@subsection%
3670     \vskip-9.75ex%
3671 \else%
3672     \vskip-6.85ex%
3673 \fi%
3674 \begin{beamercolorbox}[ignorebg,ht=2.25ex,dp=3.75ex]{section in head/foot}
3675     \insertnavigation{\paperwidth}
3676 \end{beamercolorbox}%
3677 \ifbeamer@sb@subsection%
3678 \if@RTL
3679     \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3680         rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3681     \else
3682     \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3683         leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3684     \fi
3685     \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3686 \end{beamercolorbox}%
3687 \fi%
3688 }%
3689
3690 \defbeamertheme*{smoothbars theme}
3691 {%
3692     \nointerlineskip%
3693     \vskip-0.19ex%
3694     \usebeamerfont{headline}%
3695     \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=1ex,vmode]{empty}
3696         \pgfuses shading{beamer@aboveframetitle}%
3697     \end{beamercolorbox}%
3698     \vskip-1ex%
3699     \nointerlineskip%
3700     \if@RTL
3701     \begin{beamercolorbox}[wd=\paperwidth,rightskip=.3cm,leftskip=.3cm plus1fil,vmode]{frameti
3702     \else
3703     \begin{beamercolorbox}[wd=\paperwidth,leftskip=.3cm,rightskip=.3cm plus1fil,vmode]{frameti
3704     \fi
3705     \vskip0.5ex%
3706     \usebeamerfont*{frametitle}\strut\insertframetitle%
3707     \ifx\insertframesubtitle\@empty%
3708         \strut\par%
3709     \else
3710         \par{\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\strut\insertf
3711         \fi}%
3712     \usebeamerfont{headline}%
3713     \vskip0.05ex%
3714 \end{beamercolorbox}%
3715 \nointerlineskip%
3716 \vskip-0.05ex%
3717 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}

```



```

3718 \begin{pgfpicture}
3719   \begin{pgfscope}%
3720     \pgfsetfillcolor{frametitle.bg}%
3721     \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3722     \pgfsetfading{beamer@belowframetitlemask}{}%
3723     \pgfusepath{fill}%
3724   \end{pgfscope}%
3725 \end{pgfpicture}%
3726 \end{beamercolorbox}%
3727 }
3728
3729 \AtBeginDocument{%
3730   \setbeamertemplate{frametitle}[smoothbars theme]%
3731 }
3732
3733

```

## 41 File beamerouterthemesmoothtree-xetex-bidi.def

```

3734 \ProvidesFile{beamerouterthemesmoothtree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3735 \bidi\csundef{beamer@tmpop@headline@smoothtree theme}
3736
3737 \bidi\csundef{beamer@tmpop@frametitle@smoothtree theme}
3738
3739 \defbeamertemplate*{headline}{smoothtree theme}
3740 {%
3741   \pgfuses shading{beamer@treeshade}%
3742   \vskip-0.05ex%
3743   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3744     \begin{pgfpicture}
3745       \begin{pgfscope}%
3746         \pgfsetfillcolor{subsection in head/foot.bg}%
3747         \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3748         \pgfsetfading{beamer@belowframetitlemask}{}%
3749         \pgfusepath{fill}%
3750       \end{pgfscope}%
3751     \end{pgfpicture}%
3752   \end{beamercolorbox}%
3753   \vskip-9.15ex%
3754   \if@RTL
3755     \begin{beamercolorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3756       rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3757   \else
3758     \begin{beamercolorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3759       leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3760     \fi
3761     \usebeamerfont{title in head/foot}\insertshorttitle
3762   \end{beamercolorbox}
3763   \if@RTL
3764     \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3765       rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3766   \else
3767     \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3768       leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}

```



```

3769 \fi
3770 \usebeamerfont{section in head/footer}%
3771 \hskip6pt\insertsectionhead
3772 \end{beamercolorbox}
3773 \if@RTL
3774 \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3775 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/footer}
3776 \else
3777 \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3778 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/footer}
3779 \fi
3780 \usebeamerfont{subsection in head/footer}%
3781 \hskip12pt\insertsubsectionhead
3782 \end{beamercolorbox}
3783 \vskip-0.4ex%
3784 }
3785
3786 \defbeamertemplate*{frametitle}{smoothtree theme}
3787 {%
3788 \nointerlineskip%
3789 \vskip-0.05ex%
3790 \usebeamerfont{headline}%
3791 \begin{beamercolorbox}[wd=\paperwidth,ht=0.85ex,dp=0ex]{empty}
3792 \pgfuses shading{beamer@aboveframetitle}%
3793 \end{beamercolorbox}
3794 \nointerlineskip%
3795 \if@RTL
3796 \begin{beamercolorbox}[wd=\paperwidth,rightskip=.935cm,leftskip=.3cm plus1fil]{frametitle}
3797 \else
3798 \begin{beamercolorbox}[wd=\paperwidth,leftskip=.935cm,rightskip=.3cm plus1fil]{frametitle}
3799 \fi
3800 \vskip-1.2ex%
3801 \usebeamerfont*{frametitle}\strut\insertframetitle%
3802 \ifx\insertframesubtitle\@empty%
3803 \strut\par%
3804 \else
3805 \par{\usebeamerfont*{framesubtitle}\usebeamercolor[fg]{framesubtitle}\strut\insertframesubtitle}
3806 \fi%
3807 \usebeamerfont{headline}%
3808 \end{beamercolorbox}%
3809 \nointerlineskip
3810 \vskip-0.2ex%
3811 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3812 \begin{pgfpicture}
3813 \begin{pgfscope}%
3814 \pgfsetfillcolor{frametitle.bg}%
3815 \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3816 \pgfsetfading{beamer@belowframetitlemask}{}%
3817 \pgfusepath{fill}%
3818 \end{pgfscope}%
3819 \end{pgfpicture}%
3820 \end{beamercolorbox}%
3821 }
3822

```



```

3823
3824 \AtBeginDocument{%
3825   \setbeamertheme{frametitle}[smoothtree theme]%
3826 }
3827
3828

```

## 42 File beamerouterthemetree-xetex-bidi.def

```

3829 \ProvidesFile{beamerouterthemetree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beam
3830 \bidi@csundef{beamer@tmpop@headline@tree theme}
3831
3832 \defbeamertheme*{headline}{tree theme}
3833 {%
3834   \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{upper separation line head}
3835   \end{beamercolorbox}
3836   \if@RTL
3837     \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3838       rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3839     \else
3840     \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3841       leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3842     \fi
3843     \usebeamerfont{title in head/foot}\insertshorttitle
3844   \end{beamercolorbox}
3845   \if@RTL
3846     \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3847       rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3848     \else
3849     \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3850       leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3851     \fi
3852     \usebeamerfont{section in head/foot}%
3853     \ifbeamer@tree@showhooks
3854       \setbox\beamer@tempbox=\hbox{\insertsectionhead}%
3855       \ifdim\wd\beamer@tempbox>1pt%
3856         \hskip2pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height0.
3857         \hskip1pt%
3858       \fi%
3859     \else%
3860       \hskip6pt%
3861     \fi%
3862     \insertsectionhead
3863   \end{beamercolorbox}
3864   \if@RTL
3865     \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3866       rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3867     \else
3868     \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3869       leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3870     \fi
3871     \usebeamerfont{subsection in head/foot}%
3872     \ifbeamer@tree@showhooks
3873       \setbox\beamer@tempbox=\hbox{\insertsubsectionhead}%

```



```

3874         \ifdim\wd\beamer@tempbox>1pt%
3875             \hskip9.4pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height
3876             \hskip1pt%
3877         \fi%
3878     \else%
3879         \hskip12pt%
3880     \fi%
3881     \insertsubsectionhead
3882 \end{beamercolorbox}
3883 \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{lower separation line head}
3884 \end{beamercolorbox}
3885 }
3886
3887

```

### 43 File beamerthemeHannover-xetex-bidi.def

```

3888 \ProvidesFile{beamerthemeHannover-xetex-bidi.def}[2022/06/07 v0.1 bidi adaptations for beamer]
3889 \AtBeginDocument{%
3890     \if@RTLMain
3891         \setbeamertemplate{frametitle}[default][left]%
3892     \else
3893         \setbeamertemplate{frametitle}[default][right]%
3894     \fi
3895 }
3896
3897

```

### 44 File beamerthemeSingapore-xetex-bidi.def

```

3898 \ProvidesFile{beamerthemeSingapore-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beamer]
3899 \addtoheadtemplate{\pgfuses shading{beamer@headfade}\vskip-1.25cm}{ }
3900
3901 \beamertemplatedotitem
3902
3903 \AtBeginDocument{%
3904     \setbeamertemplate{frametitle}[default][center]%
3905 }
3906
3907

```

### 45 File bidi.sty

```

3908 \NeedsTeXFormat{LaTeX2e}
3909 \def\bididate{2022/11/06}
3910 \def\bidi@version{39.6}
3911 \def\bidi@releasename{Women, Life, and Liberty}
3912 \newcommand*{\bidireleasename}{\bidi@releasename}
3913 \ProvidesPackage{bidi}[\bididate\space v\bidi@version\space (Release \bidi@releasename)\space
3914 Bidirectional typesetting in plain TeX and LaTeX]
3915 \edef\@bidi@info{*****~^~J%
3916 * ~^J%
3917 * bidi package (Bidirectional typesetting in~^~J%
3918 * plain TeX and LaTeX, using XeTeX engine)~^~J%

```





```

3919 * ^^J%
3920 * Description: A convenient interface for^^J%
3921 * typesetting bidirectional texts in plain TeX^^J%
3922 * and LaTeX. The package includes adaptations^^J%
3923 * for use with many other commonly-used packages.^^J%
3924 * ^^J%
3925 * Copyright (c) 2007--2022 Vafa Khalighi^^J%
3926 * Copyright (c) 2018--2020 bidi-tex GitHub organization^^J%
3927 * ^^J%
3928 * v\bidiversion\space (Release \bidi@releasename), \bididate^^J%
3929 * ^^J%
3930 * License: LaTeX Project Public License, version^^J%
3931 * 1.3c or higher (your choice)^^J%
3932 * ^^J%
3933 * Location on CTAN: /macros/xetex/latex/bidi^^J%
3934 * ^^J%
3935 * Issue tracker: https://github.com/kvafa/bidi/issues^^J%
3936 * ^^J%
3937 * Discussions: https://github.com/kvafa/bidi/discussions^^J%
3938 * ^^J%
3939 * Primary author of bidi package: Vafa Khalighi.^^J%
3940 * ^^J%
3941 * *****}
3942 \typeout{\@bidi@info}
3943 \edef\bidi@everyjob{\the\everyjob}
3944 \everyjob{\bidi@everyjob\typeout{\@bidi@info}}
3945 \newcommand*\bidi@version{\ensuremath\bidi@version}
3946 \newcommand*\IfbidiPackageVersionLater}[1]{%
3947   \ifdim\bidi@version pt > #1 pt %
3948     \expandafter\@firstoftwo
3949   \else
3950     \expandafter\@secondoftwo
3951   \fi}
3952 \newcommand*\IfbidiPackageVersionBefore}[1]{%
3953   \ifdim\bidi@version pt < #1 pt %
3954     \expandafter\@firstoftwo
3955   \else
3956     \expandafter\@secondoftwo
3957   \fi}
3958 \newcommand*\IfbidiPackageVersion}[1]{%
3959   \ifdim\bidi@version pt = #1 pt %
3960     \expandafter\@firstoftwo
3961   \else
3962     \expandafter\@secondoftwo
3963   \fi}
3964 \RequirePackage{iftex}
3965 \RequireXeTeX
3966 \RequirePackage{bidiutils}
3967 \RequirePackage{zref-abspage}
3968 \RequirePackage{auxhook}
3969 \RequirePackage{ltxcmds}
3970 \RequirePackage{xkeyval}
3971 \eqnewif{\if@RTLmain}{\if@rlmain}
3972 \eqnewif{\if@RTL}{\if@rl}

```



```

3973 \newif\if@nonlatin
3974 \newif\if@bidi@perpage@footnote
3975 \newcommand*{\setlatin}{\@nonlatinfalse}
3976 \newcommand*{\setnonlatin}{\@nonlatintrue}
3977 \eqnewif{\if@RTLtab}{\if@tab@rl}
3978 \newif\if@hboxRconstruct
3979 \newif\if@bidi@pdfencrypt
3980 \newcommand*{\setRTLtable}{\@RTLtabtrue}
3981 \newcommand*{\setLTRtable}{\@RTLtabfalse}
3982 \newif\if@bidi@pdfm@mark
3983 \newif\if@RTLmarginpar
3984 \newif\if@LTRmarginpar
3985 \newif\if@LTRbibitems
3986 \newif\if@RTLbibitems
3987 \newif\if@extrafootnote@features
3988 \eqnewif{\if@RTL@footnote}{\if@rl@footnote}
3989 \newif\if@bidi@list@minipage@parbox
3990 \newif\if@bidi@list@minipage@parbox@not@nob
3991 \newcommand*{\@bidi@pdfcreator}{%
3992   The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \@bidi@date
3993 }
3994 \newcommand*{\@bidi@pdfproducer}{%
3995   The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \@bidi@date
3996 }
3997 \newcommand*{\@bidi@pdfcustomproperties}{%
3998   This is the bidi package, Version \@bidi@version\space (Release \@bidi@releasename),
3999   Released November 6, 2022.
4000 }
4001 \newcommand*{\@bidi@beamer@ragged}{%
4002   \@RTLmainfalse
4003   \AtBeginDocument{%
4004     \if@RTLmain\else
4005       \if@RTL\@RTLmaintrue%
4006       \else\@RTLmainfalse%
4007       \fi%
4008     \fi%
4009   }
4010   \let\n@xt=\
4011   \@bidi@newrobustcmd*{\LRE}{\protect\pLRE}%
4012   \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4013   \@bidi@newrobustcmd*{\RLE}{\protect\pRLE}
4014   \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4015   \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4016     \errmessage{Missing left brace has been substituted}\fi \bgroup}
4017   \newinsert\@bidi@copyins@
4018   \skip\@bidi@copyins@=12\p@
4019   \dimen\@bidi@copyins@=40pc
4020   \count\@bidi@copyins@=1000
4021   \newcommand*{\@bidi@inslogo@}{\insert\@bidi@copyins@\@bidi@logo@}
4022   \newcommand*{\@bidi@logo@hb@xt@columnwidth}{%
4023     \if@RTLmain
4024       \if@twocolumn
4025         \hboxR to \columnwidth
4026       \else

```



```

4027     \hboxR to \textwidth
4028     \fi
4029   \else
4030     \if@twocolumn
4031       \hboxL to \columnwidth
4032     \else
4033       \hboxL to \textwidth
4034     \fi
4035   \fi
4036 }
4037 \newcommand*{\@bidi@logo}[1]{%
4038   \toks@{%
4039     \setbox\z@\hbox{%
4040       \special{%
4041         pdf:image width 50pt height 50pt (#1)%
4042       }
4043     }%
4044     \dp\z@\z@
4045     \ht\z@=50pt
4046     \wd\z@=50pt
4047     \beginL
4048     \lower20pt\box\z@
4049     \endL
4050   }%
4051   \the\toks@
4052 }
4053 \newcommand*{\@bidi@logo@}{%
4054   \@bidi@logo@hb@xt@columnwidth
4055   {\hss\LRE{\bfseries Typeset by the \textsf{bidi}
4056     package\quad\@bidi@logo{bidi-logo.pdf}}}}
4057 \define@key{bidi@pdfencrypt}{userpassword}[]{%
4058   \def\bidi@pdfencrypt@userpassword{#1}%
4059 }
4060 \define@key{bidi@pdfencrypt}{ownerpassword}[]{%
4061   \def\bidi@pdfencrypt@ownerpassword{#1}%
4062 }
4063 \define@key{bidi@pdfencrypt}{keylength}[128]{%
4064   \def\bidi@pdfencrypt@keylength{#1}%
4065 }
4066 \define@key{bidi@pdfencrypt}{permissionflags}[2052]{%
4067   \def\bidi@pdfencrypt@permissionflags{#1}%
4068 }
4069 \newcommand*{\pdfencryptsetup}{\setkeys{bidi@pdfencrypt}}
4070 \@onlypreamble\pdfencryptsetup
4071 \input{latex-xetex-bidi.def}
4072 \input{loadingorder-xetex-bidi.def}
4073 \define@choicekey{bidi.sty}{RTLdocument}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
4074   \ifcase\bidi@tempb\relax
4075     \@RTLtrue
4076   \or
4077     \@RTLfalse
4078   \fi}
4079 \define@choicekey{bidi.sty}{documentdirection}[\bidi@tempa\bidi@tempb]{righttoleft,lefttoright}
4080 \ifcase\bidi@tempb\relax

```



```

4081 \RTLtrue
4082 \or
4083 \RTLfalse
4084 \fi}
4085 \define@choicekey{bidi.sty}{tabledirection}[\bidi@tempa\bidi@tempb]{righttoleft,lefttoright}
4086 \ifcase\bidi@tempb\relax
4087 \RTLtabtrue
4088 \or
4089 \RTLtabfalse
4090 \fi}
4091 \define@choicekey{bidi.sty}{script}[\bidi@tempa\bidi@tempb]{latin,nonlatin}[latin]{%
4092 \ifcase\bidi@tempb\relax
4093 \nonlatinfalse
4094 \or
4095 \nonlatintrue
4096 \fi}
4097 \define@choicekey{bidi.sty}{rldocument}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
4098 \ifcase\bidi@tempb\relax
4099 \RTLtrue
4100 \or
4101 \RTLfalse
4102 \fi}
4103 \define@choicekey{bidi.sty}{footnoterule}[\bidi@tempa\bidi@tempb]{automatic,left,right,split}
4104 \ifcase\bidi@tempb\relax
4105 \autofootnoterule
4106 \or
4107 \leftfootnoterule
4108 \or
4109 \rightfootnoterule
4110 \or
4111 \SplitFootnoteRule
4112 \or
4113 \textwidthfootnoterule
4114 \fi}
4115 \define@choicekey{bidi.sty}{footnotedirection}[\bidi@tempa\bidi@tempb]{righttoleft,lefttoright}
4116 \ifcase\bidi@tempb\relax
4117 \RTL@footnotetrue
4118 \or
4119 \RTL@footnotefalse
4120 \fi}
4121 \define@choicekey{bidi.sty}{debugfootnotedirection}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
4122 \ifcase\bidi@tempb\relax
4123 \footdir@debugtrue
4124 \or
4125 \footdir@debugfalse
4126 \fi}
4127 \define@choicekey{bidi.sty}{extrafootnotefeatures}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
4128 \ifcase\bidi@tempb\relax
4129 \extrafootnotefeaturestrue
4130 \or
4131 \extrafootnotefeaturesfalse
4132 \fi}
4133
4134 \define@choicekey{bidi.sty}{DetectColumn}[\bidi@tempa\bidi@tempb]{on,off}[on]{%

```



```

4135 \ifcase\bidit@tempb\relax
4136 \def\bidit@firstcolumn@status@write{%
4137     \protected@write\@auxout{%
4138         {\string\bidit@column@status
4139         {1}}}%
4140 \def\bidit@lastcolumn@status@write{%
4141     \protected@write\@auxout{%
4142         {\string\bidit@column@status{2}}}%
4143 \or
4144     \let\bidit@firstcolumn@status@write\relax
4145     \let\bidit@lastcolumn@status@write\relax
4146 \fi}
4147
4148 \define@choicekey{bidi.sty}{logo}[\bidit@tempa\bidit@tempb]{on,off}[on]{%
4149     \ifcase\bidit@tempb\relax
4150         \AtBeginDocument{\@bidit@inslogo}%
4151     \or
4152         \let\@bidit@logo@\@empty \let\@bidit@inslogo@\@empty
4153     \fi}
4154
4155 \define@choicekey{bidi.sty}{pdfinfo}[\bidit@tempa\bidit@tempb]{on,off}[on]{%
4156     \ifcase\bidit@tempb\relax
4157         \@bidit@pdfm@marktrue
4158     \or
4159         \@bidit@pdfm@markfalse
4160     \fi}
4161
4162 % The `perpagefootnote' option is documented in UK TeX FAQ at
4163 % <https://texfaq.org/FAQ-footnpp> (see last paragraph)
4164
4165 \define@choicekey{bidi.sty}{perpagefootnote}[\bidit@tempa\bidit@tempb]{on,off}[on]{%
4166     \ifcase\bidit@tempb\relax
4167         \@bidit@perpage@footnotetrue
4168     \or
4169         \@bidit@perpage@footnotefalse
4170     \fi}
4171
4172 \ExecuteOptionsX{%
4173     DetectColumn=off%
4174 }
4175
4176 \ProcessOptionsX
4177
4178 \pdfencryptsetup{%
4179     userpassword,%
4180     ownerpassword,%
4181     keylength,%
4182     permissionflags%
4183 }
4184
4185 \if@extrafootnotefeatures
4186     \input{extrafootnotefeatures-xetex-bidi.def}
4187 \fi
4188 \newcount\bidit@digits

```



```

4189 \XeTeXinterchartokenstate=\@ne
4190 \newXeTeXintercharclass\bididigits@charclass
4191 \newXeTeXintercharclass\bidisepmark@charclass
4192 \XeTeXcharclass`\.\ \bidisepmark@charclass
4193 \XeTeXcharclass`\- \bidisepmark@charclass
4194 \bididigits=\0 \loop \XeTeXcharclass \bididigits \bididigits@charclass \ifnum\bididigit
4195 \bididigits=\ \loop \XeTeXcharclass \bididigits \bididigits@charclass \ifnum\bididigit
4196 \bididigits=\ \loop \XeTeXcharclass \bididigits \bididigits@charclass \ifnum\bididigit
4197 \XeTeXinterchartoks \bidisepmark@charclass \bididigits@charclass = {\DigitsDotDashInterCh
4198 \newcommand*{\DigitsDotDashInterCharToks}{\if@nonlatin\char"200F \fi}
4199 \bidid@AtEndPreamble{%
4200 \if@bidid@perpage@footnote
4201 \RequirePackage{bidid-perpage}%
4202 \ResetCounterPerPage{footnote}%
4203 \fi
4204 \ifx\bidid@pdfencrypt@ownerpassword\bidid@empty
4205 \ifx\bidid@pdfencrypt@userpassword\bidid@empty
4206 \@bidid@pdfencryptfalse
4207 \else
4208 \@bidid@pdfencrypttrue
4209 \fi
4210 \else
4211 \@bidid@pdfencrypttrue
4212 \fi
4213 \if@bidid@pdfencrypt
4214 \special{pdf:encrypt
4215 userpw (\bidid@pdfencrypt@userpassword)
4216 ownerpw (\bidid@pdfencrypt@ownerpassword)
4217 length \bidid@pdfencrypt@keylength
4218 perm \bidid@pdfencrypt@permissionflags
4219 }%
4220 \fi
4221 }
4222 \AtEndDocument{%
4223 \special{pdf:%
4224 docinfo<<%
4225 \if@bidid@pdfm@mark
4226 /Creator(\@bidid@pdfcreator)%
4227 /Producer(\@bidid@pdfproducer)%
4228 \fi
4229 /BIDI.Fullbanner(\@bidid@pdfcustomproperties)%
4230 \if@bidid@csdef{@xepersian@pdfcustomproperties}{%
4231 /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4232 }{}%
4233 >>%
4234 }%
4235 }

```

## 46 File bidi.tex

```

4236 \def\bididate{2022/11/06}
4237 \catcode`\@=11
4238 \def\bidid@version{39.6}
4239 \def\bidid@releasename{Women, Life, and Liberty}

```



```

4240 \def\bidireleasename{\bidi@releasename}
4241 \let \protect \relax
4242 \newlinechar`^^J
4243 \edef\@bidi@info{*****^^J%
4244 * ^^J%
4245 * bidi package (Bidirectional typesetting in^^J%
4246 * plain TeX and LaTeX, using XeTeX engine)^^J%
4247 * ^^J%
4248 * Description: A convenient interface for^^J%
4249 * typesetting bidirectional texts in plain TeX^^J%
4250 * and LaTeX. The package includes adaptations^^J%
4251 * for use with many other commonly-used packages.^^J%
4252 * ^^J%
4253 * Copyright (c) 2007--2022 Vafa Khalighi^^J%
4254 * Copyright (c) 2018--2020 bidi-tex GitHub organization^^J%
4255 * ^^J%
4256 * v\bidi@version\space (Release \bidi@releasename), \bididate^^J%
4257 * ^^J%
4258 * License: LaTeX Project Public License, version^^J%
4259 * 1.3c or higher (your choice)^^J%
4260 * ^^J%
4261 * Location on CTAN: /macros/xetex/latex/bidi^^J%
4262 * ^^J%
4263 * Issue tracker: https://github.com/kvafa/bidi/issues^^J%
4264 * ^^J%
4265 * Discussions: https://github.com/kvafa/bidi/discussions^^J%
4266 * ^^J%
4267 * Primary author of bidi package: Vafa Khalighi.^^J%
4268 * ^^J%
4269 *****}
4270 \message{\@bidi@info}
4271 \edef\bidi@everyjob{\the\everyjob}
4272 \everyjob{\bidi@everyjob\message{\@bidi@info}}
4273 \def\bidiversion{%
4274   \relax
4275   \ifmmode
4276     \bidi@version
4277   \else
4278     $\bidi@version$
4279   \fi
4280 }
4281 \input iftex.sty
4282 \RequireXeTeX
4283 \newif\if@bidi@pdfm@mark
4284 \newif\if@RTLmain
4285 \newif\if@RTL
4286 \newif\if@hboxRconstruct
4287 \newif\if@sntdir
4288 \newif\if@RTL@footnote
4289 \@RTLmainfalse
4290 \def\setRTLmain{%
4291   \if@RTLmain\else
4292     \if@RTL\@RTLmaintrue%
4293     \else\@RTLmainfalse%

```



```

4294 \fi%
4295 \fi%
4296 }
4297 \let\n@xt=\
4298 \protected\def\LRE{\protect\pLRE}%
4299 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4300 \protected\def\RLE{\protect\pRLE}
4301 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4302 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4303 \errmessage{Missing left brace has been substituted}\fi \bgroup}
4304 \newinsert\@bidi@copyins@
4305 \skip\@bidi@copyins@=12\p@
4306 \dimen\@bidi@copyins@=40pc
4307 \count\@bidi@copyins@=1000
4308 \def\@bidi@inslogo@{\insert\@bidi@copyins@{\@bidi@logo@}}
4309 \def\@bidi@logo@hb@xt@{%
4310 \ifRTLmain
4311 \hboxR to
4312 \else
4313 \hboxL to
4314 \fi
4315 }
4316 \def\@bidi@logo#1{%
4317 \toks@{%
4318 \setbox\z@\hbox{%
4319 \special{%
4320 pdf:image width 50pt height 50pt (#1)%
4321 }
4322 }%
4323 \dp\z@\z@
4324 \ht\z@=50pt
4325 \wd\z@=50pt
4326 \beginL
4327 \lower20pt\box\z@
4328 \endL
4329 }%
4330 \the\toks@
4331 }
4332 \def\@bidi@logo@{\@bidi@logo@hb@xt@\hsize{\hss\LRE{\bf Typeset by the bidi package\quad\@bidi@
4333 \def\nobidilogo{\let\@bidi@logo@\empty \let\@bidi@inslogo@\empty}
4334 \def\@bidi@pdfcreator{%
4335 The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \@bidi@date
4336 }
4337 \def\@bidi@pdfproducer{%
4338 The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \@bidi@date
4339 }
4340 \def\@bidi@pdfcustomproperties{%
4341 This is the bidi package, Version \@bidi@version\space (Release \@bidi@releasename),
4342 Released November 6, 2022.
4343 }
4344 \def\bidi@pdfm@mark{%
4345 \special{pdf:
4346 docinfo<<%
4347 \if\bidi@pdfm@mark

```





```

4348      /Creator(\@bidi@pdfcreator)%
4349      /Producer(\@bidi@pdfproducer)%
4350      \fi
4351      /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4352      >>%
4353      }%
4354 }
4355 \def\bidipdfinfoon{\@bidi@pdfm@marktrue}
4356 \def\bidipdfinfooff{\@bidi@pdfm@markfalse}
4357 \input plain-xetex-bidi.def
4358 \@bidi@inslogo@
4359 \outer\def\bye{\par\vfill\supereject\@bidi@pdfm@mark\end}
4360 \catcode\@=12
4361 \bidipdfinfoon

```

## 47 File bidi2in1.sty

```

4362 \NeedsTeXFormat{LaTeX2e}
4363 \ProvidesPackage{bidi2in1}
4364 \pagestyle{plain}
4365 \newcount\evenpage
4366 \newcount\oddpag
4367 \twocolumn
4368 \def\@oddfoot{\evenpage=\thepage%
4369 \multiply\evenpage by 2%
4370 \oddpag=\the\evenpage%
4371 \advance\oddpag by -1%
4372 \hfil\the\evenpage\hfil\hfil\the\oddpag\hfil}%
4373 \def\@evenfoot{\evenpage=\thepage%
4374 \multiply\evenpage by 2%
4375 \oddpag=\the\evenpage%
4376 \advance\oddpag by -1%
4377 \hfil\the\oddpag\hfil\hfil\the\evenpage\hfil}%
4378 \textwidth 9.49in
4379 \textheight 6.7in
4380 \columnsep 0.9in
4381 \columnseprule 0.125pt
4382 \headheight 0cm
4383 \topmargin 0in
4384 \marginparwidth 0in
4385 \marginparsep 0in
4386 \hoffset 0.05in % Corrected
4387 \voffset -0.5in %top margin space is 1.0in by default
4388 \oddsidemargin 0in
4389 \evensidemargin 0in
4390 \headsep 0cm
4391 \topskip 0cm
4392 \parskip 0.15in %
4393 \headsep 0pt
4394 \special{papersize=11.69in,8.26in}
4395 \renewcommand\maketitle{\par
4396 \begingroup
4397 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
4398 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%

```



```

4399 \long\def\@makefntext##1{\parindent 1em\noindent
4400 \hb@xt@1.8em{%
4401 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
4402 \@maketitle
4403 \@thanks
4404 \endgroup
4405 \setcounter{footnote}{0}%
4406 \global\let\thanks\relax
4407 \global\let\maketitle\relax
4408 \global\let\@maketitle\relax
4409 \global\let\@thanks\@empty
4410 \global\let\@author\@empty
4411 \global\let\@date\@empty
4412 \global\let\@title\@empty
4413 \global\let\title\relax
4414 \global\let\author\relax
4415 \global\let\date\relax
4416 \global\let\and\relax
4417 }

```

## 48 File bidicode.sty

```

4418 \NeedsTeXFormat{LaTeX2e}
4419 \ProvidesPackage{bidicode}
4420 \RequirePackage{xcolor}
4421 \RequirePackage{showexpl}
4422 \definecolor{hellgelb}{rgb}{1,1,0.85}
4423 \definecolor{colKeys}{rgb}{0,0,1}
4424 \definecolor{colCS}{rgb}{0,0,1}
4425 \definecolor{colIdentifier}{rgb}{0,0,0}
4426 \definecolor{colComments}{rgb}{1,0,0}
4427 \definecolor{colString}{rgb}{0,0.5,0}
4428 \lstset{%
4429     language=[LaTeX]TeX,%
4430     float=hbp,%
4431     basicstyle=\ttfamily\small,%
4432     identifierstyle=\color{colIdentifier},%
4433     keywordstyle=\color{colKeys},%
4434     texcsstyle=\color{colCS},%
4435     stringstyle=\color{colString},%
4436     commentstyle=\color{colComments},%
4437     backgroundcolor=\color{hellgelb},%
4438     columns=flexible,%
4439     tabsize=4,%
4440     extendedchars=true,%
4441     showspaces=false,%
4442     showstringspaces=false,%
4443     numbers=left,%
4444     numbersep=0.9em,%
4445     numberstyle=\tiny,%
4446     frame=single,%
4447     captionpos=b,%
4448     xleftmargin=1em,%
4449     breaklines=true,%

```



```

4450     breakautoindent=false,%
4451     breakindent=0pt,%
4452     escapeinside=**,%
4453     pos=r,%
4454     explpreset={%
4455         xleftmargin=1em,%
4456         columns=flexible,%
4457         language=[LaTeX]TeX%
4458     },%
4459     moretexcs={%
4460         bididate,%
4461         bidiversion,%
4462         deflatinfont,%
4463         defpersianfont,%
4464         ding,%
4465         endLTR,%
4466         endRTL,%
4467         false,%
4468         falsesymbol,%
4469         junicode,%
4470         lr,%
4471         LR,%
4472         LRE,%
4473         LTR,%
4474         maketitle,%
4475         Nastaliq,%
4476         newfontfamily,%
4477         Parsifont,%
4478         part,%
4479         RL,%
4480         RLE,%
4481         RTL,%
4482         RTLcases,%
4483         SepMark,%
4484         setLR,%
4485         setLTR,%
4486         setRL,%
4487         setRTL,%
4488         settextfont,%
4489         subsection,%
4490         subsubsection,%
4491         tableofcontents,%
4492         text,%
4493         theequation,%
4494         thesection,%
4495         true,%
4496         truesymbol,%
4497         XePersian,%
4498         xepersiandate,%
4499         xepersianversion%
4500     }%
4501 }
4502 \newcommand\HLON{%
4503     \gdef\lst@alloverstyle##1{%

```



```

4504 \fboxrule=0pt
4505 \fboxsep=0pt
4506 \fcolorbox{hellgelb}{hellgelb}{\bfseries\strut##1}%
4507 }}
4508 \newcommand\HLOFF{%
4509 \xdef\lst@alloverstyle##1{##1}%
4510 }
4511 \newcommand\Larg [1]{\normalfont\itshape#1\/\}}
4512 \newcommand\Larga[1]{\langle$\Larg{#1}$\rangle$}
4513 \newcommand\Largb[1]{\lcb\Larg{#1}\rcb}
4514 \newcommand\Largs[1]{\lsb\Larg{#1}\rsb}
4515 \newcommand\Largr[1]{\lrb\Larg{#1}\rrb}
4516 \newcommand\LBEG[1]{\normalfont\ttfamily\bs{}begin\lcb#1\rcb}
4517 \newcommand\LEND[1]{\normalfont\ttfamily\bs{}end\lcb#1\rcb}
4518
4519 \DeclareRobustCommand\bs{\normalfont\ttfamily\symbol{92}}
4520 \DeclareRobustCommand\lcb{\normalfont\ttfamily\char`{}}
4521 \DeclareRobustCommand\rcb{\normalfont\ttfamily\char`{}}
4522 \DeclareRobustCommand\lsb{\normalfont\ttfamily[]}
4523 \DeclareRobustCommand\rsb{\normalfont\ttfamily]}
4524 \DeclareRobustCommand\lrb{\normalfont\ttfamily()}
4525 \DeclareRobustCommand\rrb{\normalfont\ttfamily)}}
4526
4527 \def\Lcs#1{\nxLcs{#1}}
4528 \def\LcsStar#1{\nxLcs{#1}\OptArg*{}}
4529 \def\nxLcs#1{\texttt{\symbol{92}#1}}
4530
4531 \def\Coordx#1{$x_{#1}$}
4532 \def\Coordy#1{$y_{#1}$}
4533 \def\Coordz#1{$z_{#1}$}
4534 \def\Coord#1{\Coordx{#1},\kern 1pt\Coordy{#1}}
4535 \def\Coordn{\Coordx{n},\kern 1pt\Coordy{n}}
4536 \def\CoordIII#1{\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1}}
4537 \def\CAny{\Coordx{},\kern 1pt\Coordy{}}
4538 \def\CIIIAny{\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}}
4539 \def\coord#1{(\Coordx{#1},\kern 1pt\Coordy{#1})}
4540 \def\coordn{(\Coordx{n},\kern 1pt\Coordy{n})}
4541 \def\coordiii#1{(\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1})}
4542 \def\coordx#1{($x_{#1}$)}
4543 \def\coordy#1{($y_{#1}$)}
4544 \def\coordz#1{($z_{#1}$)}
4545 \def\cAny{(\Coordx{},\kern 1pt\Coordy{}}
4546 \def\ciiiiAny{(\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}}
4547
4548 \newsavebox{\boxdef}
4549 \newenvironment{BDef}
4550 {\begin{lrbox}\boxdef
4551 \def\arraystretch{1.0}
4552 \begin{tabular}{@{}l@{}l@{}l@{}}
4553 }
4554 {\end{tabular}\end{lrbox}}
4555
4556 {\BCmd\fbox{\usebox\boxdef}\endBCmd}
4557 \aftergroup\@afterindentfalse\aftergroup\@afterheading

```



```

4558 }
4559
4560 \newenvironment{BDef*}
4561   {\begin{lrbox}\boxdef
4562     \def\arraystretch{1.0}
4563     \begin{tabular}{@{}l@{}l@{}l@{}}
4564   }
4565   {\end{tabular}\end{lrbox}
4566   {\begin{BCmd*}\fbox{\usebox\boxdef}\end{BCmd*}}
4567   \aftergroup\@afterindentfalse\aftergroup\@afterheading
4568 }
4569 \newenvironment{BCmd*}{
4570   \@beginparpenalty-\@lowpenalty
4571   \topsep\BDefaboveskip
4572   \fboxsep3pt
4573   \flushleft}
4574 {\@endparpenalty\@M
4575   \@topsepadd\BDefbelowskip
4576   \endflushleft}
4577
4578 \newenvironment{BCmd*}{
4579   \@beginparpenalty\@M
4580   \topsep\BDefinlineskip
4581   \fboxsep3pt
4582   \flushleft}
4583 {\@endparpenalty5000
4584   \endflushleft}
4585
4586 \newskip\BDefaboveskip
4587 \newskip\BDefbelowskip
4588 \newskip\BDefinlineskip
4589 \setlength\BDefaboveskip{10pt plus 4pt}
4590 \setlength\BDefbelowskip{6pt}
4591 \setlength\BDefinlineskip{6pt}
4592
4593 \def\OptArgs{\colorbox{black!20}{\texttt{[Options]}}\kern1pt}
4594 \def\OptArg{\@ifnextchar*\OptArgi{\OptArg@ii*}}
4595 \def\OptArgi*#1{\colorbox{black!20}{\texttt{#1}}\kern1pt}
4596 \def\OptArg@ii*#1{\colorbox{black!20}{\texttt{[#1]}}\kern1pt}

```

## 49 File bidiftnxtra.sty

```

4597 \NeedsTeXFormat{LaTeX2e}
4598 \ProvidesPackage{bidiftnxtra}
4599 \newtoks\bidip@ftn
4600 \let\FN@sff@footnote\footnote
4601 \let\FN@sff@LTRfootnote\LTRfootnote
4602 \let\FN@sff@RTLfootnote\RTLfootnote
4603 \def\footnote{\ifx\protect\@typeset@protect
4604   \expandafter\FN@sff@footnote
4605   \else
4606   \expandafter\FN@sff@gobble@opt
4607   \fi
4608 }

```



```

4609 \def\LTRfootnote{\ifx\protect\@typeset@protect
4610   \expandafter\FN@sfi@LTRfootnote
4611   \else
4612     \expandafter\FN@sfi@gobble@opt
4613   \fi
4614 }
4615 \def\RTLfootnote{\ifx\protect\@typeset@protect
4616   \expandafter\FN@sfi@RTLfootnote
4617   \else
4618     \expandafter\FN@sfi@gobble@opt
4619   \fi
4620 }
4621 \edef\FN@sfi@gobble@opt{\noexpand\protect
4622   \expandafter\noexpand\csname FN@sfi@gobble@opt \endcsname}
4623 \expandafter\def\csname FN@sfi@gobble@opt \endcsname{%
4624   \ifnextchar[%]
4625     \FN@sfi@gobble@twobracket
4626     \gobble
4627 }
4628 \def\FN@sfi@gobble@twobracket[#1]#2{}
4629 \let\FN@sfi@@footnotemark\footnotemark
4630 \def\footnotemark{\ifx\protect\@typeset@protect
4631   \expandafter\FN@sfi@@footnotemark
4632   \else
4633     \expandafter\FN@sfi@gobble@optonly
4634   \fi
4635 }
4636 \edef\FN@sfi@gobble@optonly{\noexpand\protect
4637   \expandafter\noexpand\csname FN@sfi@gobble@optonly \endcsname}
4638 \expandafter\def\csname FN@sfi@gobble@optonly \endcsname{%
4639   \ifnextchar[%]
4640     \FN@sfi@gobble@bracket
4641     {}%
4642 }
4643 \def\FN@sfi@gobble@bracket[#1]{}
4644 \def\@tabular{%
4645   \leavevmode \hbox \bgroup
4646   \let\@footnotetext\bidip@ftntext
4647   \let\@LTRfootnotetext\bidip@LTRftntext
4648   \let\@RTLfootnotetext\bidip@RTLftntext
4649   \let\@xfootnotenext\bidip@xftntext
4650   \let\@xfootnote\bidip@xfootnote
4651   \let\@xLTRfootnotenext\bidip@xLTRftntext
4652   \let\@xLTRfootnote\bidip@xLTRfootnote
4653   \let\@xRTLfootnotenext\bidip@xRTLftntext
4654   \let\@xRTLfootnote\bidip@xRTLfootnote
4655   \if@RTLtab\beginR \fi
4656   $\let\@acol\@tabacol
4657   \let\@classz\@tabclassz
4658   \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
4659 \def\endtabular{\crrc\egroup\if@RTLtab\egroup\endR\egroup\fi
4660   \egroup $\if@RTLtab\endR\fi\egroup
4661   \ifx\@capytype\undefined
4662     \global\bidip@ftn\expandafter{\expandafter}\the\bidip@ftn\fi}

```



```

4663 \long\def\bidip@ftntext#1{%
4664 \edef\@tempy{\the\bidip@ftn\noexpand\footnotetext[\the\csname c@\mpfn\endcsname]}}%
4665 \global\bidip@ftn\expandafter{\@tempy{#1}}}%
4666 \long\def\bidip@LTRftntext#1{%
4667 \edef\@tempyi{\the\bidip@ftn\noexpand\LTRfootnotetext[\the\csname c@\mpfn\endcsname]}}%
4668 \global\bidip@ftn\expandafter{\@tempyi{#1}}}%
4669 \long\def\bidip@RTLftntext#1{%
4670 \edef\@tempyii{\the\bidip@ftn\noexpand\RTLfootnotetext[\the\csname c@\mpfn\endcsname]}}%
4671 \global\bidip@ftn\expandafter{\@tempyii{#1}}}%
4672
4673
4674 \long\def\bidip@xftntext[#1]#2{%
4675 \global\bidip@ftn\expandafter{\the\bidip@ftn\footnotetext[#1]{#2}}}
4676
4677 \long\def\bidip@xLTRftntext[#1]#2{%
4678 \global\bidip@ftn\expandafter{\the\bidip@ftn\LTRfootnotetext[#1]{#2}}}
4679
4680 \long\def\bidip@xRTLftntext[#1]#2{%
4681 \global\bidip@ftn\expandafter{\the\bidip@ftn\RTLfootnotetext[#1]{#2}}}
4682
4683
4684 \def\bidip@xfootnote[#1]{%
4685 \begingroup
4686 \csname c@\mpfn\endcsname #1\relax
4687 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4688 \endgroup
4689 \@footnotemark\bidip@xftntext[#1]}
4690
4691
4692 \def\bidip@xLTRfootnote[#1]{%
4693 \begingroup
4694 \csname c@\mpfn\endcsname #1\relax
4695 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4696 \endgroup
4697 \@footnotemark\bidip@xLTRftntext[#1]}
4698
4699
4700 \def\bidip@xRTLfootnote[#1]{%
4701 \begingroup
4702 \csname c@\mpfn\endcsname #1\relax
4703 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4704 \endgroup
4705 \@footnotemark\bidip@xRTLftntext[#1]}
4706
4707 \def\@xfloat #1[#2]{%
4708 \@nodocument
4709 \def \@captype {#1}%
4710 \def \@fps {#2}%
4711 \@onelevel@sanitize \@fps
4712 \def \reserved@b {!}%
4713 \ifx \reserved@b \@fps
4714 \@fpsadddefault
4715 \else
4716 \ifx \@fps \@empty

```



```

4717     \@fpsadddefault
4718     \fi
4719   \fi
4720   \ifhmode
4721     \@bsphack
4722     \@floatpenalty -\@Mii
4723   \else
4724     \@floatpenalty-\@Miii
4725   \fi
4726   \ifinner
4727     \@parmoderr\@floatpenalty\z@
4728   \else
4729     \@next\@currbox\@freelist
4730     {%
4731       \@tempcnta \sixt@@n
4732       \expandafter \@tfor \expandafter \reserved@a
4733       \expandafter :\expandafter =\@fps
4734       \do
4735       {%
4736         \if \reserved@a h%
4737           \ifodd \@tempcnta
4738         \else
4739           \advance \@tempcnta \@ne
4740         \fi
4741       \fi
4742       \if \reserved@a t%
4743         \@setfpsbit \tw@
4744       \fi
4745       \if \reserved@a b%
4746         \@setfpsbit 4%
4747       \fi
4748       \if \reserved@a p%
4749         \@setfpsbit 8%
4750       \fi
4751       \if \reserved@a !%
4752         \ifnum \@tempcnta>15
4753           \advance\@tempcnta -\sixt@@n\relax
4754         \fi
4755       \fi
4756     }%
4757     \@tempcntb \csname ftype@\@capttype \endcsname
4758     \multiply \@tempcntb \@xxxii
4759     \advance \@tempcnta \@tempcntb
4760     \global \count\@currbox \@tempcnta
4761   }%
4762   \@fltovf
4763 \fi
4764 \global \setbox\@currbox
4765   \color@vbox
4766   \normalcolor
4767   \vbox \bgroup
4768     \let\@footnotetext\@bidi@p@ftntext
4769     \let\@LTRfootnotetext\@bidi@p@LTRftntext
4770     \let\@RTLfootnotetext\@bidi@p@RTLftntext

```





```

4771 \let\@xfootnotenext\@xftntext
4772 \let\@xfootnote\@xfootnote
4773 \let\@xLTRfootnotenext\@xLTRftntext
4774 \let\@xLTRfootnote\@xLTRfootnote
4775 \let\@xRTLfootnotenext\@xRTLftntext
4776 \let\@xRTLfootnote\@xRTLfootnote
4777 \hsize\columnwidth
4778 \@parboxrestore
4779 \@floatboxreset
4780 }
4781 \def \@endfloatbox{%
4782 \par\vskip\z@skip %% \par\vskip\z@ added 15 Dec 87
4783 \@minipagefalse
4784 \outer@nobreak
4785 \egroup %% end of vbox
4786 \global\@xftn\expandafter\expandafter\the\@xftn
4787 \color@endbox
4788 }

```

## 50 File bidimoderncv.cls

```

4789 \NeedsTeXFormat{LaTeX2e}
4790 \ProvidesClass{bidimoderncv}
4791 \newif\if@DEBUG\@DEBUGfalse
4792 \DeclareOption{a4paper}{
4793 \setlength\paperheight{297mm}
4794 \setlength\paperwidth{210mm}}
4795 \DeclareOption{a5paper}{
4796 \setlength\paperheight{210mm}
4797 \setlength\paperwidth{148mm}}
4798 \DeclareOption{b5paper}{
4799 \setlength\paperheight{250mm}
4800 \setlength\paperwidth{176mm}}
4801 \DeclareOption{letterpaper}{
4802 \setlength\paperheight{11in}
4803 \setlength\paperwidth{8.5in}}
4804 \DeclareOption{legalpaper}{
4805 \setlength\paperheight{14in}
4806 \setlength\paperwidth{8.5in}}
4807 \DeclareOption{executivepaper}{
4808 \setlength\paperheight{10.5in}
4809 \setlength\paperwidth{7.25in}}
4810 \DeclareOption{landscape}{
4811 \setlength\@tempdima{\paperheight}
4812 \setlength\paperheight{\paperwidth}
4813 \setlength\paperwidth{\@tempdima}}
4814 \newcommand\@ptsize{}
4815 \DeclareOption{10pt}{\renewcommand\@ptsize{0}}
4816 \DeclareOption{11pt}{\renewcommand\@ptsize{1}}
4817 \DeclareOption{12pt}{\renewcommand\@ptsize{2}}
4818 \DeclareOption{draft}{\setlength\overfullrule{5pt}}
4819 \DeclareOption{final}{\setlength\overfullrule{0pt}}
4820 \newif\if@colour\@colourtrue
4821 \DeclareOption{nocolour}{\@colourfalse}

```



```

4822 \ExecuteOptions{a4paper,11pt,colour,final}
4823 \ProcessOptions\relax
4824 \input{size1\@ptsize.clo}
4825 \RequirePackage{color}
4826 \RequirePackage{graphicx}
4827 \RequirePackage{ifthen}
4828 \RequirePackage{marvosym}
4829 \addtolength{\oddsidemargin}{-54pt}
4830 \addtolength{\textwidth}{109pt}
4831 \addtolength{\topmargin}{-70pt}
4832 \addtolength{\textheight}{122pt}
4833 \addtolength{\marginparsep}{-5pt}
4834 \addtolength{\marginparwidth}{-10pt}
4835 \RequirePackage{url}
4836 \RequirePackage{hyperref}
4837 \hypersetup{%
4838   breaklinks,
4839   baseurl      = http://,%
4840   pdfborder    = 0 0 0,%
4841   pdfpagemode  = UseNone,%
4842   pdfstartpage = 1}
4843 \AtEndOfClass{%
4844   \AtBeginDocument{%
4845     \hypersetup{%
4846       pdfauthor      = \@firstname~\@familyname,%
4847       pdftitle       = \@title,%
4848       pdfsubject     = \@firstname~\@familyname,%
4849       pdfkeywords    = \@resumename~\@firstname~\@familyname}}}
4850 \urlstyle{tt}
4851 \RequirePackage{fancyhdr}
4852 \fancypagestyle{plain}{%
4853   \renewcommand{\headrulewidth}{0pt}
4854   \renewcommand{\footrulewidth}{0pt}
4855   \fancyhf{}}
4856 \pagestyle{plain}
4857 \setlength\lineskip{1\p@}
4858 \setlength\normallineskip{1\p@}
4859 \renewcommand\baselinestretch{}
4860 \setlength{\parindent}{0pt}
4861 \setlength{\parskip}{0pt}
4862 \setlength\columnsep{10\p@}
4863 \setlength\columnseprule{0\p@}
4864 \pagestyle{empty}
4865 \pagenumbering{arabic}
4866 \raggedbottom
4867 \onecolumn
4868 \providecommand*\listitemsymbol{\textbullet}
4869 \providecommand*\addresssymbol{}
4870 \providecommand*\mobilesymbol{\Mobilefone}
4871 \providecommand*\phonesymbol{\Telefon}
4872 \providecommand*\faxsymbol{\FAX}
4873 \providecommand*\emailsymbol{\Letter}
4874 \definecolor{firstnamecolor}{rgb}{0,0,0}
4875 \def\firstnamecolour#1{\gdef\@firstnamecolour{\addfontfeature{Color=#1}}}

```



```

4876 \def\familynamecolour#1{\gdef\@familynamecolour{\addfontfeature{Color=#1}}}
4877 \def\titlecolour#1{\gdef\@titlecolour{\addfontfeature{Color=#1}}}
4878 \def\addresscolour#1{\gdef\@addresscolour{\addfontfeature{Color=#1}}}
4879 \def\quotecolour#1{\gdef\@quotecolour{\addfontfeature{Color=#1}}}
4880 \def\sectiontitlecolour#1{\gdef\@sectiontitlecolour{\addfontfeature{Color=#1}}}
4881 \definecolor{sectionrectanglecolor}{rgb}{0,0,0}
4882 \def\subsectioncolour#1{\gdef\@subsectioncolour{\addfontfeature{Color=#1}}}
4883 \def\hintcolour#1{\gdef\@hintcolour{\addfontfeature{Color=#1}}}
4884 \providecommand*\{firstfont}{\font}
4885 \providecommand*\{familyfont}{\font}
4886 \providecommand*\{titlefont}{\font}
4887 \providecommand*\{addressfont}{\font}
4888 \providecommand*\{quotefont}{\font}
4889 \providecommand*\{sectionfont}{\font}
4890 \providecommand*\{subsectionfont}{\font}
4891 \providecommand*\{hintfont}{\font}
4892 \providecommand*\{firststyle}[1]{\font\@firstfont\@firstcolour#1}
4893 \providecommand*\{familystyle}[1]{\font\@familyfont\@familycolour#1}
4894 \providecommand*\{titlestyle}[1]{\font\@titlefont\@titlecolour#1}
4895 \providecommand*\{addressstyle}[1]{\font\@addressfont\@addresscolour#1}
4896 \providecommand*\{quostyle}[1]{\font\@quotefont\@quotecolour#1}
4897 \providecommand*\{sectionstyle}[1]{\font\@sectionfont\@sectiontitlecolour#1}
4898 \providecommand*\{subsectionstyle}[1]{\font\@subsectionfont\@subsectioncolour#1}
4899 \providecommand*\{hintstyle}[1]{\font\@hintfont\@hintcolour#1}
4900 \newcommand*\{cvtheme}[2][{}]{
4901   \def\@cvtheme{#2}
4902   \def\@cvthemeoptions{#1}}
4903 \cvtheme{bidi-casual}
4904 \AtBeginDocument{\RequirePackage[\@cvthemeoptions]{cvtheme\@cvtheme}}
4905 \newcommand*\{resumename}[1]{\def\@resumename{#1}}
4906 \newcommand*\{firstname}[1]{\def\@firstname{#1}}
4907 \newcommand*\{familyname}[1]{\def\@familyname{#1}}
4908 \renewcommand*\{title}[1]{\def\@title{#1}}
4909 \newcommand*\{address}[1]{\def\@address{#1}}
4910 \newcommand*\{mobile}[1]{\def\@mobile{#1}}
4911 \newcommand*\{phone}[1]{\def\@phone{#1}}
4912 \renewcommand*\{fax}[1]{\def\@fax{#1}}
4913 \newcommand*\{email}[1]{\def\@email{#1}}
4914 \newcommand*\{extrainfo}[1]{\def\@extrainfo{#1}}
4915 \def\@photowidth{0pt}
4916 \newcommand*\{photo}[2][64pt]{\def\@photowidth{#1}\def\@photo{#2}}
4917 \newcommand*\{quote}[1]{\def\@quote{#1}}
4918 \newlength{\quotewidth}
4919 \newlength{\hintscolumnwidth}
4920 \newlength{\separatorcolumnwidth}
4921 \setlength{\separatorcolumnwidth}{0.025\textwidth}
4922 \newlength{\maincolumnwidth}
4923 \newlength{\doubleitemmaincolumnwidth}
4924 \newlength{\listitemsymbolwidth}
4925 \settoheight{\listitemsymbolwidth}{\listitemsymbol{~}}
4926 \newlength{\listitemmaincolumnwidth}
4927 \newlength{\listdoubleitemmaincolumnwidth}
4928 \newcommand*\{recomputethemelengths}{\font}
4929 \newcommand*\{recomputelengths}{\font}

```



```

4930 \setlength{\quotewidth}{0.65\textwidth}%
4931 \setlength{\maincolumnwidth}{\textwidth}%
4932 \addtolength{\maincolumnwidth}{-\separatorcolumnwidth}%
4933 \addtolength{\maincolumnwidth}{-\hintscolumnwidth}%
4934 \setlength{\listitemmaincolumnwidth}{\maincolumnwidth}%
4935 \addtolength{\listitemmaincolumnwidth}{-\listitemsymbolwidth}%
4936 \setlength{\doubleitemmaincolumnwidth}{\maincolumnwidth}%
4937 \addtolength{\doubleitemmaincolumnwidth}{-\hintscolumnwidth}%
4938 \addtolength{\doubleitemmaincolumnwidth}{-\separatorcolumnwidth}%
4939 \setlength{\doubleitemmaincolumnwidth}{0.5\doubleitemmaincolumnwidth}%
4940 \setlength{\listdoubleitemmaincolumnwidth}{\maincolumnwidth}%
4941 \addtolength{\listdoubleitemmaincolumnwidth}{-\listitemsymbolwidth}%
4942 \setlength{\listdoubleitemmaincolumnwidth}{0.475\listdoubleitemmaincolumnwidth}%
4943 \renewcommand{\headwidth}{\textwidth}%
4944 \recomputethemelengths
4945 \setlength{\hintscolumnwidth}{0.15\textwidth}
4946 \recomputelengths
4947 \title{}
4948 \renewcommand*{\maketitle}{}
4949 \newcommand*{\section}[1]{%
4950 \vspace*{2.5ex \@plus 1ex \@minus .2ex}%
4951 \phantomsection}%
4952 \addcontentsline{toc}{part}{#1}%
4953 \parbox[m]{\hintscolumnwidth}{\bidi@raggedleft\hintfont{\leavevmode\color{sectionrectangle}%
4954 \hspace{\separatorcolumnwidth}%
4955 \parbox[m]{\maincolumnwidth}{\sectionstyle{#1}}\}[1ex]}
4956 \newcommand*{\subsection}[1]{%
4957 \cvline[0.45em]{}{\subsectionstyle{#1}}}%
4958 \newcommand*{\cvline}[3][.25em]{%
4959 \begin{tabular}{@{}p{\hintscolumnwidth}@{\hspace{\separatorcolumnwidth}}p{\maincolumnwidth}%
4960 \bidi@raggedleft\hintfont{#2} &{#3}%
4961 \end{tabular}}\}[#1]}
4962 \newcommand*{\cvdoubleitem}[4]{%
4963 \cvline{#1}{\begin{minipage}[t]{\doubleitemmaincolumnwidth}#2\end{minipage}}%
4964 \hfill%
4965 \begin{minipage}[t]{\hintscolumnwidth}\bidi@raggedleft\hintfont{#3}\end{minipage}\hspace*{\%
4966 \newcommand*{\cvlistitem}[2][\listitemsymbol]{}{%
4967 \cvline[0pt]{}{#1~\begin{minipage}[t]{\listitemmaincolumnwidth}#2\end{minipage}}}%
4968 \newcommand*{\cvlistdoubleitem}[3][\listitemsymbol]{}{%
4969 \cvline[0pt]{}{#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#2\end{minipage}}%
4970 \hfill%
4971 \ifthenelse{equal{#3}}{}%
4972 {}%
4973 {#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#3\end{minipage}}}%
4974 \newcommand*{\cventry}[6]{%
4975 \cvline{#1}{%
4976 {\bfseries#2}%
4977 \ifx#3\else{, {\slshape#3}}\fi%
4978 \ifx#4\else{, #4}\fi%
4979 \ifx#5\else{, #5}\fi%
4980 .%
4981 \ifx#6\else{\newline}\begin{minipage}[t]{\linewidth}\small#6\end{minipage}}\fi
4982 }%
4983 \newcommand*{\cvlanguage}[3]{%

```



```

4984 \cvline{#1}{\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#2}\end{minipage}\hfill\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#3}\end{minipage}\hfill\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#4}\end{minipage}}
4985 \newcommand*{\cvcomputer}[4]{%
4986 \cvdoubleitem{#1}{\small#2}{#3}{\small#4}}
4987 \newcommand*{\link}[2][{}]{%
4988 \ifthenelse{\equal{#1}{}}{%
4989 {\href{#2}{#2}}%
4990 {\href{#2}{#1}}}
4991 \newcommand*{\httplink}[2][{}]{%
4992 \ifthenelse{\equal{#1}{}}{%
4993 {\href{http://#2}{#2}}%
4994 {\href{http://#2}{#1}}}
4995 \newcommand*{\emailink}[2][{}]{%
4996 \ifthenelse{\equal{#1}{}}{%
4997 {\href{mailto:#2}{#2}}%
4998 {\href{mailto:#2}{#1}}}
4999 \newif\if@displaypagenumbers\@displaypagenumberstrue
5000 \newcommand*{\nopagenumbers}{\@displaypagenumbersfalse}
5001 \AtBeginDocument{%
5002 \if@displaypagenumbers%
5003 \ifundefined{r@lastpage}{\if%
5004 \ifthenelse{\pageref{lastpage} > 1}{%
5005 \fancypagestyle{plain}{%
5006 \fancyfoot[r]{\beginL\addressfont\@quotecolour\footnotesize\thepage\beginL/\endL\pageref{lastpage}}}%
5007 \pagestyle{plain}}}{}}%
5008 \AtEndDocument{\label{lastpage}}%
5009 \fi}
5010 \newlength{\bibindent}
5011 \setlength{\bibindent}{1.5em}
5012 \newcommand*{\bibliographyitemlabel}{\includegraphics{bidi-bibitem.pdf}}
5013 \newenvironment{thebibliography}[1]{%
5014 {%
5015 \section{\refname}%
5016 \small%
5017 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
5018 \bidi@thebibliography@font@hook%
5019 \begin{list}{\bibliographyitemlabel}%
5020 {%
5021 \setlength{\topsep}{0pt}%
5022 \setlength{\labelwidth}{\hintscolumnwidth}%
5023 \setlength{\labelsep}{\separatorcolumnwidth}%
5024 \leftmargin\labelwidth%
5025 \advance\leftmargin\labelsep%
5026 \@openbib@code%
5027 \usecounter{enumiv}%
5028 \let\p@enumiv\@empty%
5029 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
5030 \sloppy\clubpenalty4000\widowpenalty4000%
5031 }%
5032 {%
5033 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
5034 \end{list}%
5035 }
5036 \newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
5037 \let\@openbib@code\@empty

```



## 51 File bidi-perpage.sty

```

5038 \NeedsTeXFormat{LaTeX2e}
5039 \ProvidesPackage{bidi-perpage}[2018/10/04 v0.4 Reset counter(s) on every page]
5040 \newcount\bidi@page@count
5041 \bidi@page@count\@ne
5042 \newcommand*{\ResetCounterPerPage}[2][\z@]{%
5043   \if@bidi@csundef\bidi@stepcounterhook@#2}{%
5044     \expandafter\gdef\csname bidi@stepcounterhook@#2\endcsname{%
5045     }%
5046   \if@bidi@csundef\if@bidi@reset@#2@rerun}{%
5047     \expandafter\newif\csname if@bidi@reset@#2@rerun\endcsname
5048   }%
5049   \if@bidi@csundef\bidi@#2@count}{%
5050     \expandafter\newcount\csname bidi@#2@count\endcsname
5051   }%
5052   \csname bidi@#2@count\endcsname\z@
5053   \if@bidi@csundef\bidi@previous@page@#2@count}{%
5054     \expandafter\newcount\csname
5055       bidi@previous@page@#2@count\endcsname
5056   }%
5057   \csname bidi@previous@page@#2@count\endcsname\z@
5058   \if@bidi@csundef\bidi@reset@#2@perpage}{%
5059     \bidi@AfterEndDocumentCheckLabelsRerun{%
5060       \csname if@bidi@reset@#2@rerun\endcsname
5061       \PackageWarningNoLine{bidi-perpage}{%
5062         Counter `#2' may not have been reset per page.
5063         Rerun to reset counter `#2' per page%
5064       }%
5065     }%
5066   }%
5067 }%
5068 \expandafter\gdef\csname bidi@reset@#2@perpage\endcsname{%
5069   \global\advance\csname bidi@#2@count\endcsname\@ne
5070   \if@filesw
5071     \edef\@tempa{%
5072       \write\@auxout{%
5073         \string\bidi@counter@page{#2}%
5074         {\number\csname bidi@#2@count\endcsname}%
5075         {\noexpand\number\noexpand\bidi@page@count}%
5076       }%
5077     }%
5078     \@tempa
5079   \fi
5080   \begingroup\expandafter\expandafter\expandafter\endgroup
5081   \expandafter\ifx\csname bidi@#2@@\number\csname
5082     bidi@#2@count\endcsname\endcsname\relax
5083     \global\csname @bidi@reset@#2@reruntrue\endcsname
5084   \else
5085     \global\csname @bidi@reset@#2@rerunfalse\endcsname
5086     \expandafter\@tempcnta\csname bidi@#2@@\number
5087     \csname bidi@#2@count\endcsname\endcsname\relax
5088     \ifnum\@tempcnta=\csname
5089       bidi@previous@page@#2@count\endcsname

```



```

5090 \else
5091 \global\csname
5092   bidi@previous@page@@#2@count\endcsname\@tempcnta
5093   \global\csname c@#2\endcsname#1\relax
5094 \fi
5095 \fi
5096 }%
5097 \expandafter\bidi@gappto\csname
5098   bidi@stepcounterhook@@#2\endcsname{%
5099   \csname bidi@reset@#2@perpage\endcsname
5100 }%
5101 }
5102 \def\bidi@counter@page#1#2#3{\bidi@namegdef\bidi@#1@@#2}{#3}}
5103 \bidi@AtEndOutputPage{%
5104   \global\advance\bidi@page@count\@ne
5105 }

```

## 52 File biditools.sty

```

5106 \NeedsTeXFormat{LaTeX2e}
5107 \ProvidesPackage{biditools}[2022/06/15 v2.3 Programming tools for bidi package]
5108 \providecommand{\@bidi@saveprimitive}[2]{\begingroup\escapechar`\relax
5109   \edef\@tempa{\string#1}\edef\@tempb{\meaning#1}%
5110   \ifx\@tempa\@tempb \global\let#2#1%
5111   \else
5112     \edef\@tempb{\meaning#2}%
5113     \ifx\@tempa\@tempb
5114     \else
5115       \latex@error{Unable to properly define \string#2; primitive
5116       \noexpand#1no longer primitive}\@eha
5117     \fi
5118   \fi
5119   \endgroup}
5120 \newtoks\@bidi@envbody
5121 \newtoks\@bidi@emptytoks
5122 \def\bidi@addto@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5123 \def\bidi@collect@body#1{%
5124   \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5125   \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currenvir}}%
5126   \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5127   \begingroup
5128   \expandafter\let\csname\@currenvir\endcsname\bidi@collect@@body
5129   \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currenvir\endcsname}%
5130   \bidi@process@envbody
5131 }
5132 \def\bidi@push@begins#1\begin#2{%
5133   \ifx\end#2\else b\expandafter\bidi@push@begins\fi
5134 }
5135 \def\bidi@collect@@body#1\end#2{%
5136   \edef\begin@bidi@stack{\bidi@push@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack}
5137   \ifx\@empty\begin@bidi@stack
5138     \endgroup
5139     \checkend{#2}%
5140     \bidi@addto@envbody{#1}%

```



```

5141 \else
5142   \bidi@addto@envbody{#1\end{#2}}%
5143 \fi
5144 \bidi@process@envbody % A little tricky! Note the grouping
5145 }
5146 \long\def\bidi@addto@long@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5147 \long\def\bidi@collect@long@body#1{%
5148   \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5149   \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentvir}}%
5150   \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5151   \begingroup
5152   \expandafter\let\csname\@currentvir\endcsname\bidi@collect@long@@body
5153   \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currentvir\endcsname}%
5154   \bidi@process@envbody
5155 }
5156 \long\def\bidi@push@long@begins#1\begin#2{%
5157   \ifx\end#2\else b\expandafter\bidi@push@long@begins\fi
5158 }
5159 \long\def\bidi@collect@long@@body#1\end#2{%
5160   \edef\begin@bidi@stack{\bidi@push@long@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack}
5161   \ifx\@empty\begin@bidi@stack
5162     \endgroup
5163     \@checkend{#2}%
5164     \bidi@addto@long@envbody{#1}%
5165   \else
5166     \bidi@addto@long@envbody{#1\end{#2}}%
5167   \fi
5168   \bidi@process@envbody % A little tricky! Note the grouping
5169 }
5170 \long\def\bidi@new@ifnextchar#1#2#3{%
5171   \let\reserved@d= #1%
5172   \def\reserved@a{#2}\def\reserved@b{#3}%
5173   \futurelet\@let@token\bidi@new@ifnch
5174 }
5175 \def\bidi@new@ifnch{%
5176   \ifx\@let@token\reserved@d \let\reserved@b\reserved@a \fi
5177   \reserved@b
5178 }
5179 \def\bidi@matrix@check#1{%
5180   \expandafter\ifx\csname\@currentvir\endcsname#1%
5181   \else\bidi@matrix@error#1%
5182     \expandafter\@gobble
5183   \fi
5184 }
5185 \def\bidi@matrix@error#1{%
5186   \PackageError{biditools}{%
5187     Old form ``\string#1' should be \string\begin{\expandafter\@gobble\string#1}%
5188   }{%
5189     ``\string#1{...}' is old bidi package syntax whose use is
5190     ill-advised in the old versions of bidi package.%
5191   }%
5192 }
5193 \def\@tagsextension{clo}
5194 \def\@definitionfileextension{def}

```





```

5195 \def\@texfileextension{tex}
5196 \def\@iftagsloaded{\@ifl@aded\@tagsextension}
5197 \def\@ifdefinitionfileloaded{\@ifl@aded\@definitionfileextension}
5198 \def\@iftexfileloaded{\@ifl@aded\@texfileextension}
5199 \def\eqnewif#1#2{%
5200   \count@\escapechar \escapechar\m@ne
5201   \let#1\iffalse
5202   \let#2\iffalse
5203   \eq@if#1#2\iftrue
5204   \eq@if#1#2\iffalse
5205   \escapechar\count@}
5206 \def\eq@if#1#2#3{%
5207   \expandafter\def\csname\expandafter\@gobbletwo\string#1%
5208     \expandafter\@gobbletwo\string#3\endcsname
5209     {\let#1#3%
5210      \let#2#3}%
5211   \expandafter\def\csname\expandafter\@gobbletwo\string#2%
5212     \expandafter\@gobbletwo\string#3\endcsname
5213     {\let#2#3%
5214      \let#1#3}}
5215 \def\noteqnewif#1#2{%
5216   \count@\escapechar \escapechar\m@ne
5217   \let#1\iffalse
5218   \let#2\iffalse
5219   \not@eq@if#1#2\iftrue\iffalse
5220   \escapechar\count@}
5221 \def\not@eq@if#1#2#3#4{%
5222   \expandafter\def\csname\expandafter\@gobbletwo\string#1%
5223     \expandafter\@gobbletwo\string#3\endcsname
5224     {\let#1#3%
5225      \let#2#4}%
5226   \expandafter\def\csname\expandafter\@gobbletwo\string#1%
5227     \expandafter\@gobbletwo\string#4\endcsname
5228     {\let#1#4%
5229      \let#2#3}%
5230   \expandafter\def\csname\expandafter\@gobbletwo\string#2%
5231     \expandafter\@gobbletwo\string#3\endcsname
5232     {\let#2#3%
5233      \let#1#4}%
5234   \expandafter\def\csname\expandafter\@gobbletwo\string#2%
5235     \expandafter\@gobbletwo\string#4\endcsname
5236     {\let#2#4%
5237      \let#1#3}}
5238 \newcommand*\SetBoolean}[2]{%
5239   \lowercase{\def\@tempa{#2}}%
5240   \@ifundefined{\@tempswa\@tempa}%
5241     {\PackageError{biditools}%
5242      {You can only set a boolean to `true' or `false'}\@ehc}%
5243     {\@ifundefined{#1\@tempa}%
5244      {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
5245      {\csname#1\@tempa\endcsname}}}%
5246 \newcommand*\GlobalSetBoolean}[2]{%
5247   \lowercase{\def\@tempa{#2}}%
5248   \@ifundefined{\@tempswa\@tempa}%

```



```

5249 {\PackageError{biditools}%
5250 {You can only set a boolean to `true' or `false'}\@ehc}%
5251 {\@ifundefined{#1\@tempa}%
5252 {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
5253 {\global\csname#1\@tempa\endcsname}}}
5254 \newcommand*\SetatBoolean[2]{%
5255 \lowercase{\def\@tempa{#2}}%
5256 \@ifundefined{@tempwa\@tempa}%
5257 {\PackageError{biditools}%
5258 {You can only set a boolean to `true' or `false'}\@ehc}%
5259 {\@ifundefined{@#1\@tempa}%
5260 {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5261 {\csname @#1\@tempa\endcsname}}}
5262 \newcommand*\GlobalSetatBoolean[2]{%
5263 \lowercase{\def\@tempa{#2}}%
5264 \@ifundefined{@tempwa\@tempa}%
5265 {\PackageError{biditools}%
5266 {You can only set a boolean to `true' or `false'}\@ehc}%
5267 {\@ifundefined{@#1\@tempa}%
5268 {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5269 {\global\csname @#1\@tempa\endcsname}}}
5270 \def\@bidi@removefromreset#1#2{%
5271 \expandafter\let\csname c@#1\endcsname\@bidi@removefromreset
5272 \def\@elt##1{%
5273 \expandafter\ifx\csname c@##1\endcsname\@bidi@removefromreset
5274 \else
5275 \noexpand\@elt{##1}%
5276 \fi}%
5277 \expandafter\xdef\csname cl@#2\endcsname{%
5278 \csname cl@#2\endcsname}}}
5279 \newcommand*\ifRtoL{%
5280 \if@RTL
5281 \expandafter\@firstoftwo
5282 \else
5283 \expandafter\@secondoftwo
5284 \fi}
5285 \newcommand*\ifLtoR{%
5286 \if@RTL
5287 \expandafter\@secondoftwo
5288 \else
5289 \expandafter\@firstoftwo
5290 \fi}
5291 \newcommand*\ifRtoLtable{%
5292 \if@RTLtab
5293 \expandafter\@firstoftwo
5294 \else
5295 \expandafter\@secondoftwo
5296 \fi}
5297 \newcommand*\ifLtoRtable{%
5298 \if@RTLtab
5299 \expandafter\@secondoftwo
5300 \else
5301 \expandafter\@firstoftwo
5302 \fi}

```



```

5303 \newcommand*{\ifRtoLhboxconstruct}{%
5304   \if@hboxRconstruct
5305     \expandafter\@firstoftwo
5306   \else
5307     \expandafter\@secondoftwo
5308   \fi}
5309 \newcommand*{\ifLtoRhboxconstruct}{%
5310   \if@hboxRconstruct
5311     \expandafter\@secondoftwo
5312   \else
5313     \expandafter\@firstoftwo
5314   \fi}
5315 \newcommand*{\iflatin}{%
5316   \if@nonlatin
5317     \expandafter\@secondoftwo
5318   \else
5319     \expandafter\@firstoftwo
5320   \fi}
5321 \newcommand*{\ifnonlatin}{%
5322   \if@nonlatin
5323     \expandafter\@firstoftwo
5324   \else
5325     \expandafter\@secondoftwo
5326   \fi}
5327
5328 \newcommand*{\bidi@@convert@dimen@t@unit}[2]{%
5329   \strip@pt\dimexpr #1*65536/\dimexpr 1#2\relax #2}
5330
5331 \newcommand*{\bidi@@convert@dimen@t@pt}[1]{%
5332   \dimexpr #1*65536/\dimexpr 1pt\relax}
5333
5334 \newcommand*{\if@bidi@csdef}[1]{%
5335   \ifcsname#1\endcsname
5336     \expandafter\@firstoftwo
5337   \else
5338     \expandafter\@secondoftwo
5339   \fi}
5340 \newcommand*{\if@bidi@csundef}[1]{%
5341   \ifcsname#1\endcsname
5342     \expandafter\ifx\csname#1\endcsname\relax
5343       \expandafter\expandafter
5344       \expandafter\@firstoftwo
5345     \else
5346       \expandafter\expandafter
5347       \expandafter\@secondoftwo
5348     \fi
5349   \else
5350     \expandafter\@firstoftwo
5351   \fi}
5352 \newcommand*{\if@bidi@def}[1]{%
5353   \ifdefined#1%
5354     \expandafter\@firstoftwo
5355   \else
5356     \expandafter\@secondoftwo

```



```

5357 \fi}
5358 \newcommand{\if@bidi@undef}[1]{%
5359 \ifdefined#1%
5360 \ifx#1\relax
5361 \expandafter\expandafter
5362 \expandafter\@firstoftwo
5363 \else
5364 \expandafter\expandafter
5365 \expandafter\@secondoftwo
5366 \fi
5367 \else
5368 \expandafter\@firstoftwo
5369 \fi}
5370 \newcommand{\if@bidi@blank}[1]{% from url.sty
5371 \bidi@ifblank@i#1&&\@secondoftwo\@firstoftwo:}
5372 \long\def\bidi@ifblank@i#1#2&#3#4#5:{#4}
5373 \newcommand{\bidi@notblank}[1]{%
5374 \bidi@ifblank@i#1&&\@firstoftwo\@secondoftwo:}
5375 \newcommand{\if@bidi@defmacro}{}
5376 \long\edef\if@bidi@defmacro#1{%
5377 \noexpand\expandafter\noexpand\bidi@ifdefmacro
5378 \noexpand\meaning#1\detokenize{macro}:&}
5379 \edef\bidi@ifdefmacro{%
5380 \def\noexpand\bidi@ifdefmacro##1\detokenize{macro}:##2&}
5381 \bidi@ifdefmacro{\bidi@notblank{#2}}
5382 \newcommand*{\if@bidi@csmacro}[1]{%
5383 \if@bidi@csdef{#1}
5384 {\expandafter\if@bidi@defmacro\csname#1\endcsname}
5385 {\@secondoftwo}}
5386 \newcommand{\if@bidi@defprimitive}[1]{%
5387 \ifprimitive#1%
5388 \expandafter\@firstoftwo
5389 \else
5390 \expandafter\@secondoftwo
5391 \fi}
5392 \newcommand{\if@bidi@csprimitive}[1]{%
5393 \begingroup\expandafter\expandafter\expandafter\endgroup%
5394 \expandafter\ifprimitive\csname#1\endcsname%
5395 \expandafter\@firstoftwo
5396 \else
5397 \expandafter\@secondoftwo
5398 \fi}
5399 \newcommand*{\bidi@csdefcs}[2]{%
5400 \expandafter\@ifdefinable \csname#1\endcsname{%
5401 \expandafter\def\csname#1\expandafter\endcsname{\csname#2\endcsname}}
5402 \newcommand*{\bidi@csletcs}[2]{%
5403 \expandafter\@ifdefinable \csname#1\endcsname{%
5404 \expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname}}
5405 \newcommand*{\bidi@cslet}[2]{%
5406 \expandafter\@ifdefinable \csname#1\endcsname{%
5407 \expandafter\let\csname#1\endcsname#2}}
5408 \newcommand{\bidi@namelongdef}[1]{%
5409 \long\expandafter\def\csname #1\endcsname}
5410 \newcommand{\bidi@namelonggdef}[1]{%

```



```

5411 \long\expandafter\gdef\csname #1\endcsname}
5412 \newcommand{\bidi@namelongedef}[1]{%
5413 \long\expandafter\edef\csname #1\endcsname}
5414 \newcommand{\bidi@namelongxdef}[1]{%
5415 \long\expandafter\xdef\csname #1\endcsname}
5416 \def\bidi@ensure@newcommand{\@star@or@long\bidi@ensure@new@command}
5417 \def\bidi@ensure@new@command#1{%
5418 \begingroup \escapechar\m@ne\xdef\@gtempa{\string#1}\endgroup
5419 \expandafter\if@bidi@csundef\@gtempa
5420 {\new@command#1}{\relax%
5421 \let\@ifdefinable\@rc@ifdefinable%
5422 \new@command#1}}
5423 \def\bidi@ensure@newlength#1{\if@bidi@undef#1{\newskip#1}{}}
5424
5425 \protected\def\bidi@error{\PackageError{bidi}}
5426 \protected\def\bidi@warning{\PackageWarning{bidi}}
5427 \protected\def\bidi@info{\PackageInfo{bidi}}
5428
5429 \def\bidi@pos#1#2#3#4{\bidi@namegdef\bidi@#1pos@@#2@#3}{#4}}
5430
5431 \newcount\bidi@poscount
5432
5433 \newcommand*{\WriteStartXPostoaux}{%
5434 \global\advance\bidi@poscount\@ne
5435 \edef\@tempa{%
5436 \write\@auxout{%
5437 \string\bidi@pos{x}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflastx
5438 }%
5439 }%
5440 \ifvmode
5441 \leavevmode
5442 \fi
5443 \if@RTL
5444 \if@filesw
5445 \@tempa
5446 \fi
5447 \pdfsavepos
5448 \else
5449 \pdfsavepos
5450 \if@filesw
5451 \@tempa
5452 \fi
5453 \fi
5454 \if@bidi@csundef\bidi@xpos@@start@\number\bidi@poscount}{%
5455 \PackageWarningNoLine{biditools}{%
5456 The start x position '\number\bidi@poscount' is not known yet.
5457 Rerun to get this x position%
5458 }%
5459 }-}%
5460 }
5461
5462 \newcommand*{\WriteEndXPostoaux}{%
5463 \edef\@tempa{%
5464 \write\@auxout{%

```



```

5465         \string\bidipos{x}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5466     }%
5467 }%
5468 \if@RTL
5469     \if@filesw
5470         \@tempa
5471     \fi
5472     \pdfsavepos
5473 \else
5474     \pdfsavepos
5475 \if@filesw
5476     \@tempa
5477 \fi
5478 \fi
5479 \if@bidi@csundef{bidi@xpos@@end@\number\bidiposcount}{%
5480     \PackageWarningNoLine{biditools}{%
5481         The end x position `\'number\bidiposcount' is not known yet.
5482         Rerun to get this x position%
5483     }%
5484 }{}%
5485 }
5486
5487 \newcommand*{\WriteStartYPostoaux}{%
5488     \global\advance\bidiposcount\@ne
5489     \edef\@tempa{%
5490         \write\@auxout{%
5491             \string\bidipos{y}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflasty
5492         }%
5493     }%
5494     \ifvmode
5495         \leavevmode
5496     \fi
5497 \if@RTL
5498     \if@filesw
5499         \@tempa
5500     \fi
5501     \pdfsavepos
5502 \else
5503     \pdfsavepos
5504 \if@filesw
5505     \@tempa
5506 \fi
5507 \fi
5508 \if@bidi@csundef{bidi@ypos@@start@\number\bidiposcount}{%
5509     \PackageWarningNoLine{biditools}{%
5510         The start y position `\'number\bidiposcount' is not known yet.
5511         Rerun to get this y position%
5512     }%
5513 }{}%
5514 }
5515
5516 \newcommand*{\WriteEndYPostoaux}{%
5517     \edef\@tempa{%
5518         \write\@auxout{%

```



```

5519         \string\bidipos{y}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5520     }%
5521 }%
5522 \if@RTL
5523     \if@filesw
5524         \@tempa
5525     \fi
5526     \pdfsavepos
5527 \else
5528     \pdfsavepos
5529 \if@filesw
5530     \@tempa
5531 \fi
5532 \fi
5533 \if@bidi@csundef{bidi@ypos@@end@\number\bidiposcount}{%
5534     \PackageWarningNoLine{biditools}{%
5535         The end y position `\'number\bidiposcount' is not known yet.
5536         Rerun to get this y position%
5537     }%
5538 }{}%
5539 }
5540
5541 \newcommand*{\WriteStartXYPostoaux}{%
5542     \global\advance\bidiposcount\@ne
5543     \edef\@tempa{%
5544         \write\@auxout{%
5545             \string\bidipos{x}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5546         }%
5547         \write\@auxout{%
5548             \string\bidipos{y}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5549         }%
5550     }%
5551     \ifvmode
5552         \leavevmode
5553     \fi
5554 \if@RTL
5555     \if@filesw
5556         \@tempa
5557     \fi
5558     \pdfsavepos
5559 \else
5560     \pdfsavepos
5561 \if@filesw
5562     \@tempa
5563 \fi
5564 \fi
5565 \if@bidi@csundef{bidi@xpos@@start@\number\bidiposcount}{%
5566     \PackageWarningNoLine{biditools}{%
5567         The start x position `\'number\bidiposcount' is not known yet.
5568         Rerun to get this x position%
5569     }%
5570 }{}%
5571 \if@bidi@csundef{bidi@ypos@@start@\number\bidiposcount}{%
5572     \PackageWarningNoLine{biditools}{%

```



```

5573         The start y position '\number\bidiposcount' is not known yet.
5574         Rerun to get this y position%
5575     }%
5576 }{}%
5577 }
5578
5579 \newcommand*{\WriteEndXYPostoaux}{%
5580     \edef\@tempa{%
5581         \write\@auxout{%
5582             \string\bidipos{x}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5583         }%
5584         \write\@auxout{%
5585             \string\bidipos{y}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflasty
5586         }%
5587     }%
5588 \if@RTL
5589     \if@filesw
5590     \@tempa
5591 \fi
5592 \pdfsavepos
5593 \else
5594 \pdfsavepos
5595 \if@filesw
5596     \@tempa
5597 \fi
5598 \fi
5599 \if@bidi\csundef{bidi@xpos@@end@\number\bidiposcount}{%
5600     \PackageWarningNoLine{biditools}{%
5601         The end x position '\number\bidiposcount' is not known yet.
5602         Rerun to get this x position%
5603     }%
5604 }{}%
5605 \if@bidi\csundef{bidi@ypos@@end@\number\bidiposcount}{%
5606     \PackageWarningNoLine{biditools}{%
5607         The end y position '\number\bidiposcount' is not known yet.
5608         Rerun to get this y position%
5609     }%
5610 }{}%
5611 }
5612
5613 \newcommand*{\currentposxwidth}{%
5614     \if@bidi\csundef{bidi@xpos@@end@\number\bidiposcount}{\z@}
5615     {%
5616         \ifnum\csname bidi@xpos@@start@\number\bidiposcount
5617         \endcsname < \csname bidi@xpos@@end@\number\bidiposcount
5618         \endcsname
5619         \dimexpr \csname bidi@xpos@@end@\number\bidiposcount
5620         \endcsname sp - \csname bidi@xpos@@start@\number\bidiposcount
5621         \endcsname sp\relax
5622     \else
5623         \dimexpr \csname bidi@xpos@@start@\number\bidiposcount
5624         \endcsname sp - \csname bidi@xpos@@end@\number\bidiposcount
5625         \endcsname sp\relax
5626     \fi

```





```

5627 }%
5628 }
5629
5630 \newcommand*{\currentposyheight}{%
5631   \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{\z@}
5632   {%
5633     \dimexpr \csname bidi@ypos@@start@\number\bidi@poscount
5634     \endcsname sp - \csname bidi@ypos@@end@\number\bidi@poscount
5635     \endcsname sp\relax
5636   }%
5637 }
5638
5639
5640
5641 \newcommand*{\setbaselineskip}[1]{%
5642   \linespread{\strip@pt\dimexpr\numexpr\dimexpr#1\relax*65536/\dimexpr\baselineskip\relax}
5643   \selectfont
5644 }
5645
5646
5647 \newcommand*{\bidi@newrobustcmd}{%
5648   \protected\def\bidi@newrobustcmd{\@star@or@long\bidi@new@command}
5649
5650 \def\bidi@new@command#1{\@testopt{\bidi@newcommand#1}0}
5651
5652 \def\bidi@newcommand#1[#2]{%
5653   \@ifnextchar[%]
5654     {\bidi@xargdef#1[#2]}
5655     {\ifx\l@ngrel@x\relax
5656       \let\l@ngrel@x\protected
5657     \else
5658       \protected\def\l@ngrel@x{\protected\long}%
5659     \fi
5660     \@argdef#1[#2]}}
5661
5662 \long\def\bidi@xargdef#1[#2][#3]#4{%
5663   \@ifdefinable#1{%
5664     \expandafter\protected
5665     \expandafter\def
5666     \expandafter#1%
5667     \expandafter{%
5668       \expandafter\@testopt
5669       \csname\string#1\endcsname{#3}}}%
5670   \expandafter\@yargdef\csname\string#1\endcsname\tw@{#2}{#4}}
5671
5672 \bidi@newrobustcmd*{\bidi@renewrobustcmd}{\@star@or@long\bidi@renew@command}
5673
5674 \def\bidi@renew@command#1{%
5675   \if@bidi@undef{#1}
5676     {\bidi@error{\string#1 undefined}\@ehc}
5677     {}%
5678   \let\@ifdefinable\@rc@ifdefinable
5679   \bidi@new@command#1}
5680

```



```

5681
5682
5683 \bidi@newrobustcmd*{\bidi@providerobustcmd}{\@star@or@long\bidi@provide@command}
5684
5685 \def\bidi@provide@command#1{%
5686   \if@bidi@undef{#1}
5687     {\def\reserved@a{\bidi@new@command#1}}
5688     {\def\reserved@a{\bidi@renew@command\reserved@a}}%
5689   \reserved@a}
5690
5691 \newcommand*{\bidi@csuse}[1]{%
5692   \ifcsname#1\endcsname
5693     \csname#1\expandafter\endcsname
5694   \fi}
5695
5696 \newcommand{\bidi@expandonce}[1]{%
5697   \unexpanded\expandafter{#1}}
5698
5699 \def\bidi@protected{%
5700   \let\@@protect\protect
5701   \let\protect\@unexpandable@protect
5702   \afterassignment\restore@protect}
5703
5704 \bidi@newrobustcmd{\bidi@appto}[2]{%
5705   \if@bidi@undef{#1}
5706     {\edef#1{\unexpanded{#2}}}
5707     {\edef#1{\bidi@expandonce#1\unexpanded{#2}}}}
5708 \bidi@newrobustcmd{\bidi@eappto}[2]{%
5709   \if@bidi@undef{#1}
5710     {\edef#1{#2}}
5711     {\edef#1{\bidi@expandonce#1#2}}}
5712 \bidi@newrobustcmd{\bidi@gappto}[2]{%
5713   \if@bidi@undef{#1}
5714     {\xdef#1{\unexpanded{#2}}}
5715     {\xdef#1{\bidi@expandonce#1\unexpanded{#2}}}}
5716 \bidi@newrobustcmd{\bidi@xappto}[2]{%
5717   \if@bidi@undef{#1}
5718     {\xdef#1{#2}}
5719     {\xdef#1{\bidi@expandonce#1#2}}}
5720
5721 \bidi@newrobustcmd*{\bidi@protected@eappto}{\bidi@protected\bidi@eappto}
5722 \bidi@newrobustcmd*{\bidi@protected@xappto}{\bidi@protected\bidi@xappto}
5723
5724
5725
5726 \bidi@newrobustcmd{\bidi@preto}[2]{%
5727   \if@bidi@undef{#1}
5728     {\edef#1{\unexpanded{#2}}}
5729     {\edef#1{\unexpanded{#2}\bidi@expandonce#1}}}
5730 \bidi@newrobustcmd{\bidi@epreto}[2]{%
5731   \if@bidi@undef{#1}
5732     {\edef#1{#2}}
5733     {\edef#1{#2\bidi@expandonce#1}}}
5734 \bidi@newrobustcmd{\bidi@gpreto}[2]{%

```



```

5735 \if@bidi@undef{#1}
5736   {\xdef#1{\unexpanded{#2}}}
5737   {\xdef#1{\unexpanded{#2}\bidi@expandonce#1}}}
5738 \bidi@newrobustcmd{\bidi@xpreto}[2]{%
5739   \if@bidi@undef{#1}
5740     {\xdef#1{#2}}
5741     {\xdef#1{#2\bidi@expandonce#1}}}
5742
5743 \bidi@newrobustcmd*{\bidi@protected@epreto}{\bidi@protected\bidi@epreto}
5744 \bidi@newrobustcmd*{\bidi@protected@xpreto}{\bidi@protected\bidi@xpreto}
5745
5746
5747
5748 \bidi@newrobustcmd*{\bidi@csappto}[1]{\expandafter\bidi@appto\csname#1\endcsname}
5749 \bidi@newrobustcmd*{\bidi@cseappto}[1]{\expandafter\bidi@eappto\csname#1\endcsname}
5750 \bidi@newrobustcmd*{\bidi@csgappto}[1]{\expandafter\bidi@gappto\csname#1\endcsname}
5751 \bidi@newrobustcmd*{\bidi@csxappto}[1]{\expandafter\bidi@xappto\csname#1\endcsname}
5752 \bidi@newrobustcmd*{\bidi@protected@cseappto}{\bidi@protected\bidi@cseappto}
5753 \bidi@newrobustcmd*{\bidi@protected@csxappto}{\bidi@protected\bidi@csxappto}
5754
5755
5756
5757 \bidi@newrobustcmd*{\bidi@cspreto}[1]{\expandafter\bidi@preto\csname#1\endcsname}
5758 \bidi@newrobustcmd*{\bidi@csepreto}[1]{\expandafter\bidi@epreto\csname#1\endcsname}
5759 \bidi@newrobustcmd*{\bidi@csgpreto}[1]{\expandafter\bidi@gpreto\csname#1\endcsname}
5760 \bidi@newrobustcmd*{\bidi@csxpreto}[1]{\expandafter\bidi@xpreto\csname#1\endcsname}
5761 \bidi@newrobustcmd*{\bidi@protected@csepreto}{\bidi@protected\bidi@csepreto}
5762 \bidi@newrobustcmd*{\bidi@protected@csxpreto}{\bidi@protected\bidi@csxpreto}
5763
5764
5765
5766 \bidi@newrobustcmd{\if@bidi@patchable}{%
5767   \bidi@dbg@trce\if@bidi@patchable
5768   \begingroup
5769   \@makeother\%
5770   \@ifstar\bidi@ifpatchable@i\bidi@ifpatchable}
5771
5772 \long\def\bidi@ifpatchable#1#2{%
5773   \endgroup
5774   \bidi@dbg@init#1%
5775   \if@bidi@undef{#1}
5776     {\bidi@dbg@fail{def}\@secondoftwo}
5777     {\bidi@dbg@info{def}%
5778       \if@bidi@defmacro{#1}
5779         {\bidi@dbg@info{mac}%
5780           \bidi@ifscanable{#1}
5781             {\bidi@ifhashcheck{#2}
5782               {\bidi@dbg@info{tok}%
5783                 \bidi@ifpattern#1{#2}
5784                 {\bidi@dbg@info{pat}%
5785                   \bidi@dbg@info{pos}\@firstoftwo}
5786                   {\bidi@dbg@fail{pat}\@secondoftwo}}
5787               {\bidi@dbg@fail{hsh}\@secondoftwo}}
5788               {\bidi@dbg@fail{tok}\@secondoftwo}}

```



```

5789      {\bidi@dbg@fail{mac}\@secondoftwo}}
5790
5791 \long\def\bidi@ifpatchable@i#1{%
5792   \endgroup
5793   \bidi@dbg@init#1%
5794   \if@bidi@undef{#1}
5795     {\bidi@dbg@fail{def}\@secondoftwo}
5796     {\bidi@dbg@info{def}%
5797      \if@bidi@defmacro{#1}
5798        {\bidi@dbg@info{mac}%
5799         \if@bidi@defparam{#1}
5800           {\bidi@dbg@info{prm}%
5801            \bidi@ifscanable{#1}
5802              {\bidi@dbg@info{tok}%
5803               \bidi@dbg@info{pos}\@firstoftwo}
5804               {\bidi@dbg@fail{tok}\@secondoftwo}}
5805              {\bidi@dbg@info{prl}%
5806               \if@bidi@defprotected{#1}
5807                 {\bidi@dbg@info{pro}}
5808                 {}%
5809               \bidi@dbg@info{pos}\@firstoftwo}}
5810             {\bidi@dbg@fail{mac}\@secondoftwo}}}}
5811
5812 \bidi@newrobustcmd*{\bidi@patchcmd}{%
5813   \bidi@dbg@trce\bidi@patchcmd
5814   \begingroup
5815   \@makeother\#%
5816   \bidi@@patchcmd}
5817
5818 \newcommand{\bidi@@patchcmd}[4][#####1]{%
5819   \bidi@ifpatchable#2{#3}
5820   {\bidi@dbg@succ{ret}%
5821    \begingroup
5822    \edef\bidi@resrvda{%
5823      \def\noexpand\bidi@resrvda####1\detokenize{macro:}####2->####3&{%
5824        #1\def\string\bidi@resrvda\space####2{\noexpand\bidi@resrvdb####3&}}%
5825      \def\noexpand\bidi@resrvdb####1\detokenize{#3}####2&{%
5826        ####1\detokenize{#4}####2}%
5827      \edef\noexpand\bidi@resrvda{%
5828        \noexpand\bidi@resrvda\meaning#2&}}%
5829    \bidi@resrvda
5830    \bidi@patchcmd@scantoks\bidi@resrvda
5831    \let#2\bidi@resrvda
5832    \bidi@undef\bidi@resrvda
5833    \@firstoftwo}
5834   {\@secondoftwo}}
5835
5836 \def\bidi@patchcmd@scantoks#1{%
5837   \edef\bidi@resrvda{\endgroup
5838     \unexpanded{\makeatletter\scantokens}{#1}%
5839     \catcode\number`\@=\the\catcode`\@ \relax}%
5840   \bidi@resrvda}
5841
5842 \newcommand\bidi@isloaded[2][]{

```



```

5843 \expandafter\ifx\csname if@bidi@#2loaded@\endcsname\relax
5844 \expandafter\newif\csname if@bidi@#2loaded@\endcsname
5845 \fi
5846 \@ifpackageloaded{#2}
5847 {\csname @bidi@#2loaded@true\endcsname #1}
5848 {\csname @bidi@#2loaded@false\endcsname}}
5849
5850 \protected\def\bidi@ifscanable#1{%
5851 \begingroup
5852 \edef\bidi@resrvda{%
5853 \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
5854 ####1\def\string\bidi@resrvda####2{####3}}}%
5855 \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda\meaning#1&}}%
5856 \bidi@resrvda
5857 \makeatletter
5858 \scantokens\expandafter{\bidi@resrvda}%
5859 \expandafter\endgroup\ifx#1\bidi@resrvda
5860 \expandafter\@firstoftwo
5861 \else
5862 \expandafter\@secondoftwo
5863 \fi}
5864
5865
5866 \protected\long\def\bidi@ifhashcheck#1{%
5867 \begingroup
5868 \edef\bidi@resrvda{\detokenize{#1}}%
5869 \expandafter\endgroup
5870 \expandafter\bidi@ifhashcheck@i\meaning\bidi@resrvda&}
5871
5872 \edef\bidi@ifhashcheck@i#1{%
5873 \noexpand\expandafter
5874 \noexpand\bidi@ifhashcheck@ii
5875 \noexpand\strip@prefix#1\string#\string#&}
5876
5877 \edef\bidi@ifhashcheck@ii{%
5878 \def\noexpand\bidi@ifhashcheck@ii##1\string#\string###2&}
5879 \bidi@ifhashcheck@ii{\if@bidi@blank{#2}}
5880
5881
5882 \protected\long\def\bidi@ifpattern#1#2{%
5883 \begingroup
5884 \edef\bidi@resrvda{%
5885 \def\noexpand\bidi@resrvda####1\detokenize{#2}####2&{%
5886 \endgroup\noexpand\noexpand\noexpand\noexpand\if@bidi@blank{####2}}}%
5887 \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda
5888 \expandafter\strip@prefix\meaning#1\detokenize{#2}&}%
5889 \noexpand\bidi@resrvda}
5890 \bidi@resrvda\@secondoftwo\@firstoftwo}
5891
5892
5893 \newcommand{\if@bidi@defparam}{}
5894 \long\edef\if@bidi@defparam#1{%
5895 \noexpand\expandafter\noexpand\bidi@ifdefparam
5896 \noexpand\meaning#1\detokenize{macro}:->&}

```



```

5897 \edef\bidi@ifdefparam{%
5898   \def\noexpand\bidi@ifdefparam##1\detokenize{macro}:##2->##3&}
5899 \bidi@ifdefparam{\bidi@notblank{#2}}
5900
5901
5902 \newcommand{\if@bidi@defprotected}{}
5903 \long\edef\if@bidi@defprotected#1{%
5904   \noexpand\expandafter\noexpand\bidi@ifdefprotected
5905   \noexpand\meaning#1\string\protected&}
5906 \edef\bidi@ifdefprotected{%
5907   \def\noexpand\bidi@ifdefprotected##1\string\protected##2&}
5908 \bidi@ifdefprotected{\bidi@notblank{#2}}
5909
5910
5911 \bidi@newrobustcmd{\bidi@undef}[1]{\let#1\bidi@undefined}
5912 \bidi@newrobustcmd{\bidi@csundef}[1]{%
5913   \expandafter\let\csname #1\endcsname\bidi@undefined
5914 }
5915
5916 \let\bidi@dbg@trce\@gobble
5917 \let\bidi@dbg@init\@gobble
5918 \let\bidi@dbg@info\@gobble
5919 \let\bidi@dbg@succ\@gobble
5920 \let\bidi@dbg@fail\@gobble
5921
5922
5923
5924 \bidi@newrobustcmd*{\bidi@apptocmd}{%
5925   \bidi@dbg@trce\bidi@apptocmd
5926   \begingroup
5927   \@makeother\#%
5928   \bidi@hooktocmd\bidi@append}
5929
5930
5931
5932 \bidi@newrobustcmd*{\bidi@pretocmd}{%
5933   \bidi@dbg@trce\bidi@pretocmd
5934   \begingroup
5935   \@makeother\#%
5936   \bidi@hooktocmd\bidi@prepend}
5937
5938 \long\def\bidi@hooktocmd#1#2#3{%
5939   \endgroup
5940   \bidi@dbg@init#2%
5941   \if@bidi@undef{#2}
5942     {\bidi@dbg@fail{def}\@secondoftwo}
5943     {\bidi@dbg@info{def}%
5944       \if@bidi@defmacro{#2}
5945         {\bidi@dbg@info{mac}%
5946           \if@bidi@defparam{#2}
5947             {\bidi@dbg@info{prm}%
5948               \bidi@ifscanable{#2}
5949                 {\bidi@ifhashcheck{#3}
5950                   {\bidi@dbg@info{tok}%

```



```

5951         \bidi@dbg@succ{ret}%
5952         \bidi@hooktocmd@i#1#2{#3}%
5953         \@firstoftwo
5954         {\bidi@dbg@fail{hsh}\@secondoftwo}}
5955         {\bidi@dbg@fail{tok}\@secondoftwo}}
5956     {\bidi@dbg@info{prl}%
5957      \if@bidi@defprotected{#2}
5958      {\bidi@dbg@info{pro}%
5959       \bidi@dbg@succ{red}%
5960       \protected}
5961      {\bidi@dbg@succ{red}}}%
5962     \edef#2{#1{\bidi@expandonce#2}{\unexpanded{#3}}}%
5963     \@firstoftwo}}
5964     {\bidi@dbg@fail{mac}\@secondoftwo}}}}
5965
5966 \long\def\bidi@hooktocmd@i#1#2#3{%
5967   \begingroup
5968   \edef\bidi@resrvda{%
5969     \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
5970       ####1\def\string\bidi@resrvda\space####2{#1{####3}{\detokenize{#3}}}}}%
5971     \edef\noexpand\bidi@resrvda{%
5972       \noexpand\bidi@resrvda\meaning#2&}}}%
5973   \bidi@resrvda
5974   \bidi@patchcmd@scantoks\bidi@resrvda
5975   \let#2\bidi@resrvda
5976   \bidi@undef\bidi@resrvda}
5977
5978 \long\def\bidi@append#1#2{#1#2}
5979 \long\def\bidi@prepend#1#2{#2#1}
5980
5981 %\bidi@newrobustcmd*{\bidi@AtEndPreamble}{\bidi@gappto\bidi@endpreamblehook}
5982 %\newcommand*{\bidi@endpreamblehook}{}
5983
5984 \bidi@newrobustcmd*{\bidi@AtEndPreamble}{\AddToHook{begindocument/before}}}%
5985
5986 \bidi@newrobustcmd*{\bidi@BeforeOutputPageShipOut}{\bidi@gappto\bidi@beforeoutputpageshipout}
5987 \newcommand*{\bidi@beforeoutputpageshipouthook}{}
5988
5989 \bidi@newrobustcmd*{\bidi@BeforeHeader}{\bidi@gappto\bidi@beforeheaderhook}
5990 \newcommand*{\bidi@beforeheaderhook}{}
5991
5992 \bidi@newrobustcmd*{\bidi@BeforeOutputBoxOutputPage}{\bidi@gappto\bidi@beforeoutputboxoutput}
5993 \newcommand*{\bidi@beforeoutputboxoutputpagehook}{}
5994
5995 \bidi@newrobustcmd*{\bidi@AfterOutputBoxOutputPage}{\bidi@gappto\bidi@afteroutputboxoutputpa}
5996 \newcommand*{\bidi@afteroutputboxoutputpagehook}{}
5997
5998 \bidi@newrobustcmd*{\bidi@BeforeFooter}{\bidi@gappto\bidi@beforefooterhook}
5999 \newcommand*{\bidi@beforefooterhook}{}
6000
6001 \bidi@newrobustcmd*{\bidi@AfterFooter}{\bidi@gappto\bidi@afterfooterhook}
6002 \newcommand*{\bidi@afterfooterhook}{}
6003
6004

```



```

6005 \bidi@newrobustcmd*{\bidi@AfterOutputPageShipOut}{\bidi@gappto\bidi@afteroutputpageshipouthook}
6006 \newcommand*{\bidi@afteroutputpageshipouthook}{}
6007
6008 \bidi@newrobustcmd*{\bidi@AtEndOutputPage}{\bidi@gappto\bidi@atendoutputpagehook}
6009 \newcommand*{\bidi@atendoutputpagehook}{}
6010
6011 %\bidi@preto\document{%
6012 % \endgroup
6013 % \let\bidi@AtEndPreamble\@firstofone
6014 % \bidi@endpreamblehook
6015 % \protected\def\bidi@AtEndPreamble{\@notprerr\@gobble}%
6016 % \bidi@undef\bidi@endpreamblehook
6017 % \begingroup}
6018
6019 \bidi@newrobustcmd*{\bidi@AfterPreamble}{\AtBeginDocument}
6020 \bidi@AtEndPreamble{\let\bidi@AfterPreamble\@firstofone}
6021
6022 %\bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\bidi@gappto\bidi@afterendpreamblehook}
6023 %\newcommand*{\bidi@afterendpreamblehook}{}
6024
6025 \bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\AddToHook{begindocument/end}}%
6026
6027 %\bidi@appto\document{%
6028 % \let\bidi@AfterEndPreamble\@firstofone
6029 % \bidi@afterendpreamblehook
6030 % \protected\def\bidi@AfterEndPreamble{\@notprerr\@gobble}%
6031 % \bidi@undef\bidi@afterendpreamblehook
6032 % \ignorespaces}
6033
6034 \bidi@newrobustcmd*{\bidi@AfterEndDocumentCheckLabelsRerun}{\bidi@gappto\bidi@afterendddocument}
6035 \newcommand*{\bidi@afterendddocumentchecklabelsrerunhook}{}
6036
6037 \bidi@patchcmd\enddocument
6038 {\fi}
6039 {\let\bidi@AfterEndDocumentCheckLabelsRerun\@firstofone
6040 \bidi@afterendddocumentchecklabelsrerunhook
6041 \fi}
6042 {}
6043 {\PackageWarning{biditools}{Patching '\string\enddocument' failed}}
6044
6045 \AtEndDocument{\let\bidi@AfterEndPreamble\@gobble}
6046
6047 \bidi@newrobustcmd*{\bidi@AfterLastShipout}{\bidi@gappto\bidi@afterlastshipouthook}
6048 \newcommand*{\bidi@afterlastshipouthook}{}
6049
6050 \bidi@patchcmd\enddocument
6051 {\clearpage}
6052 {\clearpage
6053 \let\bidi@AfterLastShipout\@firstofone
6054 \bidi@afterlastshipouthook}
6055 {}
6056 {\let\bidi@clearpage\clearpage
6057 \def\clearpage{%
6058 \bidi@clearpage

```





```

6059 \let\bid@AfterLastShipout\@firstofone
6060 \bid@afterlastshipouthook}}
6061
6062 %\bid@newrobustcmd*{\bid@AfterEndDocument}{\bid@gappto\bid@afterenddocumenthook}
6063 %\newcommand*{\bid@afterenddocumenthook}{%
6064
6065 \bid@newrobustcmd*{\bid@AfterEndDocument}{\AddToHook{enddocument/end}}}%
6066
6067 %\bid@patchcmd\enddocument
6068 % {\deadcycles}
6069 % {\let\bid@AfterEndDocument\@firstofone
6070 % \bid@afterenddocumenthook
6071 % \deadcycles}
6072 % {}
6073 % {\let\bid@@end\@end
6074 % \def\@end{%
6075 % \let\bid@AfterEndDocument\@firstofone
6076 % \bid@afterenddocumenthook
6077 % \bid@@end}}
6078
6079 \bid@newrobustcmd{\bid@AtBeginEnvironment}[1]{%
6080 \bid@csgappto{\bid@begin@#1@hook}}
6081
6082 % Patch \begin<space> and \end<space> in newer LaTeX releases
6083 % \begin and \end in older ones.
6084 \expandafter\bid@patchcmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6085 {\csname #1\endcsname}
6086 {\bid@csuse{\bid@begin@#1@hook}%
6087 \csname #1\endcsname}
6088 {}
6089 {\bid@warning{%
6090 Patching '\string\begin' failed!\MessageBreak
6091 '\string\bid@AtBeginEnvironment' will not work\@gobble}}
6092
6093
6094
6095 \bid@newrobustcmd{\bid@AtEndEnvironment}[1]{%
6096 \bid@csgappto{\bid@end@#1@hook}}
6097
6098 \expandafter\bid@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6099 {\csname end#1\endcsname}
6100 {\bid@csuse{\bid@end@#1@hook}%
6101 \csname end#1\endcsname}
6102 {}
6103 {\bid@warning{%
6104 Patching '\string\end' failed!\MessageBreak
6105 '\string\bid@AtEndEnvironment' will not work\@gobble}}
6106
6107
6108
6109 \bid@newrobustcmd{\bid@BeforeBeginEnvironment}[1]{%
6110 \bid@csgappto{\bid@beforebegin@#1@hook}}
6111
6112 \expandafter\bid@pretocmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname

```



```

6113 {\bidi@csuse{@bidi@beforebegin@#1@hook}}
6114 {}
6115 {\bidi@warning{%
6116   Patching '\string\begin' failed!\MessageBreak
6117   '\string\bidi@BeforeBeginEnvironment' will not work\@gobble}}
6118
6119 \bidi@newrobustcmd{\bidi@AfterEndEnvironment}[1]{%
6120   \bidi@csgappto{@bidi@afterend@#1@hook}}
6121
6122 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6123 {\if@ignore}
6124 {\bidi@csuse{@bidi@afterend@#1@hook}%
6125   \if@ignore}
6126 {}
6127 {\bidi@warning{%
6128   Patching '\string\end' failed!\MessageBreak
6129   '\string\bidi@AfterEndEnvironment' will not work\@gobble}}
6130
6131 \def\bidi@namedef#1{\expandafter\def\csname #1\endcsname}
6132 \def\bidi@namedef#1{\expandafter\gdef\csname #1\endcsname}
6133 \def\bidi@namedef#1{\expandafter\edef\csname #1\endcsname}
6134 \def\bidi@namedef#1{\expandafter\xdef\csname #1\endcsname}
6135
6136 % From David Carlisle:
6137 % The \@stpelt redefinition below belongs to Heiko Oberdiek
6138 % See also https://github.com/ho-tex/oberdiek/issues/26
6139
6140 \let\bidi@stepcounter\stepcounter
6141 \let\bidi@@stpelt\@stpelt
6142
6143 \def\@stpelt#1{%
6144   \ifcsname bidi@reset@#1@perpage\endcsname
6145     \begingroup
6146       \let\stepcounter\bidi@stepcounter
6147       \@bidi@@stpelt{#1}%
6148     \endgroup
6149     \expandafter\@gobbletwo
6150   \fi
6151   \@bidi@@stpelt{#1}%
6152 }
6153
6154 \bidi@pretocmd\stepcounter
6155 {%
6156   \if@bidi@csundef\bidi@stepcounterhook@@#1}{\%
6157     \csname bidi@stepcounterhook@@#1\endcsname
6158   }%
6159 }{\}%
6160 {\PackageWarning{biditools}{Patching '\string\stepcounter' failed}}
6161
6162 \chardef\bidi@backslash`\
6163 \def\bidics#1{\texttt{\char\bidi@backslash#1}}
6164
6165 % anonymous control sequences
6166 \newcount\bidi@tempcountb

```



```

6167 \newtoks\biditemptoksa
6168 \newtoks\biditemptoksb
6169
6170 % Catcode (re)storing
6171 %
6172 \def\bidistorecatcode#1%
6173   {\escapechar\m@ne
6174    \bidicsarg\edef{\bidirestorecatcode\string#1}%
6175     {\catcode`\string#1=
6176      \the\catcode\expandafter`\string#1}%
6177    \catcode\expandafter`\string#1=12\relax
6178    \escapechar`\relax}
6179 \def\bidirestorecatcode#1%
6180   {\escapechar\m@ne
6181    \csname bidirestorecatcode\string#1\endcsname
6182    \escapechar`\relax}
6183
6184 % Construct a control sequence inside \edef
6185 %
6186 \def\bidicsname#1{\expandafter\noexpand\csname#1\endcsname}
6187
6188 % Construct a control sequence out of #2, and give it to #1
6189 %
6190 \def\bidicsarg#1#2{\expandafter#1\csname#2\endcsname}
6191
6192 % Pick an escapecharacter
6193 % this presumes that its argument is a character.
6194 %
6195 \def\bidipickescape#1{\ifnum`#1=\escapechar\else#1\fi}
6196
6197 % Equality of strings.
6198 % the fast approach: does not work in expansion-only environment.
6199 %
6200 \def\bidiequalstring#1#2{00\fi\def\bidieqs@a{#1}\def\bidieqs@b{#2}%
6201   \ifx\bidieqs@a\bidieqs@b}
6202
6203 % Test by expansion only
6204 %
6205 \def\bidiequalstringx#1#2{00\fi
6206   \csname if\bidiequalstringx#1&#2&\endcsname}
6207 \def\bidiequalstringx#1#2$#3$4$ {\ifx#1#3%
6208   \ifx#1&true\else\bidihop@ES\bidiequalstringx#2$#4$\fi
6209   \else false\fi}
6210 \def\bidihop@ES#1\fi#2\fi{\fi\fi#1}
6211
6212 % Lexicographic ordering
6213 % note the use of \def
6214 % also note the characters 0,127,255 that are used,
6215 % these are not supposed to appear in the strings
6216 %
6217 {\catcode0=12 \catcode255=12 \catcode127=12
6218 \gdef\bidistringbeforenc#1#2{00\fi
6219   \bidicharsbefore#1^^@^^?#2^^ff^^?}
6220 \gdef\bidicharsbeforenc#1#2^^?#3#4^^?{%

```



```

6221 \ifcat#1\relax\def\bidinext{\bidi@CharsBefore#2^^@^^?#3#4^^ff^^?}%
6222 \else\ifcat#3\relax\def\bidinext{\bidi@CharsBefore#1#2^^@^^?#4^^ff^^?}%
6223 \else\ifnum\lccode`#1<\lccode`#3
6224 \def\bidinext{\csname iftrue\endcsname}%
6225 \else\ifnum\lccode`#1>\lccode`#3
6226 \def\bidinext{\csname iffalse\endcsname}%
6227 \else\def\bidinext{\bidi@CharsBefore#2^^?#4^^?}%
6228 \fi \fi \fi \fi
6229 \bidinext}
6230 \gdef\bidi@StringBefore#1#2{00\fi
6231 \bidi@CharsBefore#1^^@^^?#2^^ff^^?}%
6232 \gdef\bidi@CharsBefore#1#2^^?#3#4^^?{%
6233 \ifnum`#1<`#3
6234 \def\bidinext{\csname iftrue\endcsname}%
6235 \else\ifnum`#1>`#3
6236 \def\bidinext{\csname iffalse\endcsname}%
6237 \else\def\bidinext{\bidi@CharsBefore#2^^?#4^^?}%
6238 \fi\fi
6239 \bidinext}
6240 }
6241
6242 % Null argument test
6243 %
6244 \def\bidi@empty{}
6245 \def\bidi@ifempty#1{00\fi\expandafter\ifx\csname bidi@#1null\endcsname\bidi@null}
6246 \def\bidi@ifemptyX#1{\expandafter\ifx\csname bidi@#1null\endcsname\bidi@null}
6247 %\def\bidi@ifempty#1{\def\bidi@cs@a{#1}\ifx\bidi@cs@a\bidi@empty}
6248 \def\bidi@IsEmptyList#1{00\fi\def\bidi@cs@a{#1}\ifx\cs@a\bidi@empty}
6249
6250 % Next character test
6251 %
6252 \def\bidinextChar#1#2#3{00\fi
6253 \let\bidinxt@ch#1\def\bidinxt@a{#2}\def\bidinxt@b{#3}%
6254 \futurelet\bidinxt@c@\bidi@ifnxtc}
6255 \def\bidi@ifNextChar#1#2#3{%
6256 \let\bidinxt@ch#1\def\bidinxt@a{#2}\def\bidinxt@b{#3}%
6257 \futurelet\bidinxt@c@\bidi@ifnxtc}
6258 \def\bidi@ifnxtc{\ifx\bidinxt@ch\bidinxt@c \expandafter\bidinxt@a
6259 \else \expandafter\bidinxt@b \fi}
6260
6261 % Test for defined-ness of string as control sequence.
6262 % works inside \edef
6263 %
6264 \def\bidi@undefinedcs#1{00\fi\bidi@csarg\ifx{#1}\relax}
6265
6266 % Define uniquely defined dummy macros,
6267 % usually to serve as bumper blocks at the end of a list
6268 %
6269 \newcount\bidi@dummies
6270 \def\DefNewDummy#1{
6271 \if\bidi@undefinedcs{#1}\bidi@csarg\edef{#1}{bidi@dum\the\bidi@dummies}
6272 \advance\bidi@dummies@ne
6273 \else
6274 \bidi@error{Attempt at second definition of `#1'}

```



```

6275     \fi}
6276
6277 % string case statement
6278 % use: \bidi@switch \iftest{...} in:
6279 %     item1 action1
6280 %     ...
6281 %     itemn actionn
6282 %     default defaultaction [optional]
6283 %     \endbidi@switch
6284 % inspired by Jonathan Fine: Some Basic Control Macros
6285 % Tugboat 12 #4
6286 %
6287 \let\bidi@fi\fi \let\endbidi@switch\relax \DefNewDummy\bidi@default}
6288 \def\bidi@switch@exit #1 \@bidi@fi #2 \endbidi@switch {\fi #1}
6289 \def\bidi@switch #1#2#3{\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6290 #1{#2}\bidi@switch@exit #3 \@bidi@fi
6291 \bidi@switch {#1}
6292 }
6293 % this version puts the test object in {}
6294 \def\bidi@oswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6295 #1{#2}\bidi@switch@exit #3 \@bidi@fi
6296 \bidi@switch #1 in:
6297 }
6298 % this version assumes that the test object is just one character
6299 \def\bidi@cswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6300 #1#2\bidi@switch@exit #3 \@bidi@fi
6301 \bidi@cswitch #1 in:
6302 }
6303 % this version assumes that the test object can have an optional space
6304 \def\bidi@bswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6305 #1#2 \bidi@switch@exit #3 \@bidi@fi
6306 \bidi@bswitch #1 in:
6307 }
6308 % this version can cope with significant spaces at the start of #3;
6309 % #2 is macro argument
6310 \def\bidi@mswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6311 #1{#2}\bidi@switch@exit #3 \@bidi@fi
6312 \bidi@mswitch #1 in:
6313 }
6314 % idem; #2 does not have to be enclosed in braces
6315 \def\bidi@fswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6316 #1#2 \bidi@switch@exit #3 \@bidi@fi
6317 \bidi@fswitch #1 in:
6318 }
6319
6320 % Routines for taking the value of a string:
6321 % if the string is defined as control sequence
6322 % take the value of that, otherwise take the string itself
6323
6324 % String or value of control sequence
6325 %
6326 \def\bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else \the\csname#1\endcsname\fi}
6327
6328 % String or control sequence

```



```

6329 %
6330 \def\@bidi@ww#1{\if\@bidi@undefinedcs{#1}#1\else \csname#1\endcsname \fi}
6331
6332 % String or \noexpand-ed control sequence;
6333 % for use in \edef
6334 %
6335 \newif\ifbidi@in@label
6336 \def\@bidi@w@w#1{\if\@bidi@undefinedcs{#1}#1\else
6337     \ifbidi@in@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6338 \newtoks\bidi@are@these@correct
6339 \def\bidi@t@w@w#1{%
6340     \if\@bidi@undefinedcs{#1}#1%
6341     \ifdefining\bidi@append@to@list\bidi@are@these@correct{#1 }\fi
6342     \else
6343     \ifin@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6344
6345 % List Manipulation .....
6346 % this assumes that #1 is a list of tokens, #2 is the name of a list
6347 %
6348 % Names of lists (and of items to pop into) are given as strings;
6349 % not as control sequences.
6350 %
6351 \newtoks\bidi@toks@lista \newtoks\bidi@toks@listb
6352 % basic append/prepend macro
6353 \long\def\@bidi@append@to@csl#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6354     \global#1=\expandafter\expandafter\expandafter{\expandafter#1\the\bidi@toks@lista}
6355 \long\def\@bidi@prepend@to@csl#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6356     \global#1=\expandafter\expandafter\expandafter{\expandafter#1\the\bidi@toks@lista}
6357 \def\@bidi@append@to@list{\bidi@csarg\@bidi@append@to@csl}
6358 \def\@bidi@prepend@to@list{\bidi@csarg\@bidi@prepend@to@csl}
6359 % variations:
6360 \long\def\bidi@append@to@list#1#2{\@bidi@append@to@csl{#1}{#2}}
6361 \long\def\bidi@prepend@to@list#1#2{\@bidi@prepend@to@csl{#1}{#2}}
6362 \def\bidi@append@list@to@list#1#2{%
6363     \@bidi@append@to@list{#1}{\expandafter\expandafter\expandafter{\expandafter#1\the\csname#2\endcsname}}
6364 \def\bidi@prepend@list@to@list#1#2{%
6365     \@bidi@prepend@to@list{#1}{\expandafter\expandafter\expandafter{\expandafter#1\the\csname#2\endcsname}}
6366 \def\bidi@append@csl@to@csl#1#2{%
6367     \@bidi@append@to@csl{#1}\expandafter{\the#2}}
6368 \def\bidi@prepend@csl@to@csl#1#2{%
6369     \@bidi@prepend@to@csl{#1}\expandafter{\the#2}}
6370 \def\bidi@append@toks@cs@to@list#1#2{\@bidi@append@to@list{#1}\expandafter{\the#2}}
6371 \def\bidi@prepend@toks@cs@to@list#1#2{\@bidi@prepend@to@list{#1}\expandafter{\the#2}}
6372
6373 \let\bidi@willbeunhskip\unhskip
6374
6375 % A few list macros for the user
6376 \def\NewTokenList:#1 {\bidi@csarg\newtoks{#1}\global\csname#1\endcsname{}}
6377 \def\EmptyTokenList:#1 {\global\csname#1\endcsname{}}
6378 \long\def\AppendToTokenList:#1=#2 {\@bidi@append@to@list{#1}{#2}}
6379 \long\def\PrependToTokenList:#1=#2 {\@bidi@prepend@to@list{#1}{#2}}
6380 \def\TheTokenList:#1 {\let\bidi@oldwbuskip\bidi@willbeunhskip \let\bidi@willbeunhskip\empty
6381     \if\@bidi@undefinedcs{#1}\bidi@error{Token List <#1> undefined}
6382     \else\bidi@csarg\the{#1}\fi}

```



```

6383 \let\bid@willbeunhskip\bid@oldwbuskip}
6384
6385 \def\bid@del@tok@from@list#1#2{\begingroup
6386 \long\def\bid@cs@liste##1#2##2\bid@tok@SM
6387 {\bid@toks@lista{##1}\bid@toks@listb{##2}%
6388 \edef\bid@cs@listb{\global\bid@csname{#1}=
6389 {\the\bid@toks@lista\the\bid@toks@listb}}%
6390 \bid@cs@listb}%
6391 \edef\bid@cs@lista{\noexpand\bid@cs@liste}\expandafter\the\csname#1\endcsname\noexpand
6392 \bid@cs@lista \endgroup}
6393 \def\bid@in@front@of@list#1{\bid@csarg{\let\expandafter\bid@cs@lista}{#1}%
6394 \bid@in@front@of@cslist\bid@cs@lista}
6395 \long\def\bid@in@front@of@cslist#1#2{\begingroup\bid@toks@lista={#2}%
6396 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\bid@toks@list
6397 \endgroup}
6398 \long\def\bid@local@in@front@of@list#1#2{\bid@toks@lista={#2}%
6399 \csname#1\endcsname\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
6400 {\expandafter\expandafter\expandafter\the\expandafter\expandafter\expandafter
6401 \expandafter\the\csname#1\endcsname}%
6402 }
6403 \def\bid@set@list#1{\bid@csarg{\let\expandafter\bid@cs@lista}{#1}%
6404 \bid@set@cslist\bid@cs@lista}
6405 \long\def\bid@set@cslist#1#2{\begingroup\bid@toks@lista={#2}%
6406 \global#1=\expandafter{\the\bid@toks@lista}\endgroup}
6407
6408 %%%%%%%%%%% Stack macros
6409 %
6410 % push in terms of prepending of lists
6411 \def\bid@push@cs@onto@cs#1#2{\@bid@prepend@to@cslist#1\expandafter{\expandafter\\expandafter
6412 \def\bid@push@onto#1{\bid@csarg\bid@push@onto@cs{#1}}
6413 \def\bid@push@onto@cs#1#2{\@bid@prepend@to@cslist#1}{\{#2}}
6414 \def\bid@local@push@onto#1#2{\let\\=\relax
6415 \bid@local@in@front@of@list{#1}{\{#2}}
6416 % pop via auxiliary macro: #1 is result, #2 is stack
6417 % two cs arguments
6418 \def\bid@pop@cs@into#1#2{\edef\bid@cs@e
6419 {\noexpand\@bid@popinto\noexpand#1\noexpand#2\the#2\noexpand\@bid@pop}\bid@cs@e}
6420 % two string arguments
6421 \def\bid@pop@into#1#2{\edef\bid@cs@e
6422 {\noexpand\@bid@popinto\bid@csname{#1}\bid@csname{#2}\bid@csarg\the{#2}\noexpand\@bid@
6423 \long\def\@bid@popinto#1#2\\#3#4\@bid@pop{#1}{#3}#2{#4}}
6424 \def\bid@copy@stacktop#1#2{%
6425 \edef\bid@cs@e{\noexpand\@bid@copy@stacktop
6426 {#1}\bid@csarg\the{#2}\noexpand\@bid@pop}%
6427 \bid@cs@e}
6428 \def\@bid@copy@stacktop#1\\#2#3\@bid@pop{\csname#1\endcsname#2\relax}
6429 \newcount\bid@stack@length \newtoks\bid@empty@stack \bid@empty@stack{\{\}}
6430 \def\bid@length@of@stack#1{\bid@csarg\bid@length@of@csstack{#1}}
6431 \def\bid@length@of@csstack#1{\def\\##1{\advance\bid@stack@length\@ne}%
6432 \bid@stack@length\m@ne \the#1}
6433 % turn a stack upside down
6434 \def\bid@invert@csstack#1{\bid@length@of@csstack{#1}%
6435 \bid@tempcountb\z@ \bid@temptoksa\bid@empty@stack
6436 \loop\ifnum\bid@tempcountb<\bid@stack@length

```



```

6437 \bidi@pop@cs@into\bidi@temptoksb#1\advance\bidi@stack@length@m@ne
6438 \bidi@push@cs@onto@cs\bidi@temptoksa\bidi@temptoksb
6439 % \bidi@append@cslst@to@cslst\bidi@temptoksb\bidi@temptoksa% append a to b
6440 % \bidi@temptoksa\bidi@temptoksb
6441 \repeat% copy b to a
6442 #1\bidi@temptoksa \bidi@temptoksa\bidi@empty@toks}
6443 % invert a stack into a list
6444 \def\bidi@x@stack@to@list#1{\bidi@length@of@stack{#1}%
6445 \bidi@tempcountb\z@ \bidi@temptoksa\bidi@empty@toks
6446 \loop\ifnum\bidi@tempcountb<\bidi@stack@length
6447 \bidi@pop@into{\bidi@temptoksb}{#1}\advance\bidi@stack@length@m@ne
6448 \bidi@append@list@to@list{\bidi@temptoksb}{\bidi@temptoksa}\repeat
6449 \csname#1\endcsname\bidi@temptoksa \bidi@temptoksa\bidi@empty@toks}
6450
6451
6452 % General loop macro:
6453 % \looprepeat
6454 % \forvariable{<var>} \fromvalue{<start>} \bystep{<step>} \tovalue{<end>} \downtovalue{<end>}
6455 % \untilcondition{<cond>} \whilecondition{<cond>}
6456 % \doloopbody { <loop body> }
6457 % where all control sequences in between \looprepeat and \doloopbody are optional.
6458 %
6459 % var: characters to form a control sequence;
6460 % after \forvariable{index} you can access the loop counter as \index.
6461 % This is a count register; to print it use \number\index.
6462 % start,step,end: integers with obvious relations to the loop counter;
6463 % start and step have a default value of 1
6464 % cond: (sequence of commands ending in) any TeX \if... test.
6465 %
6466 % Count down instead of up with \downtovalue; the increment given in \bystep
6467 % is always positive, and is added or subtracted accordingly.
6468 %
6469 % Tests: \untilcondition is evaluated at the end of the loop body; \whilecondition
6470 % at the beginning of the loop body.
6471 %
6472 % Exit from middle of loop: \breaklooprepeat
6473 % use this at any place in the loop; in case of a conditional use
6474 % \ifsomething ... \expandafter \breaklooprepeat \fi
6475 %
6476 % Note that the line ends do not cause spaces in the output.
6477 %
6478 % Technical details:
6479 % The loop body is not executed in a group: the braces are those
6480 % of a token list.
6481 % The 'forvariable' variable is \let to a \count register.
6482
6483
6484
6485 % Auxiliary stuff
6486 \def\bidi@looprepeat@csarg#1#2{\expandafter#1\csname#2\endcsname}
6487 \def\bidi@looprepeat@csromannumeral#1{\csname #1\romannumeral\bidi@looprepeat@depth\endcsname}
6488 \def\bidi@looprepeat@csargromannumeral#1#2{\expandafter#1\csname#2\romannumeral\bidi@looprepeat@depth\endcsname}
6489
6490 \newcount\bidi@looprepeat@depth

```





```

6491 \let\endlooprepeat\relax \def\bidi@csprotect{}
6492 % Trace switches may later be defined by PAC_utils
6493 \let\bidi@looprepeat@traceinit\relax \let\bidi@looprepeat@traceexit\relax
6494
6495 % Main repeatloop macro
6496 % - go to next level and allocate unique counter/toks if this is the
6497 %   first time we visit this level
6498 % - setup: gather bounds and termination conditions
6499 % - scoop up body in token list; after the assignment define and
6500 %   execute body
6501 \def\looprepeat#1\doloopbody{\bidi@looprepeat@traceinit % exit in \breakrepeatloop
6502   \advance\bidi@looprepeat@depth\@ne\relax
6503   \bidi@looprepeat@csargromannumeral\ifx\bidi@looprepeat@count\relax
6504     \bidi@looprepeat@csargromannumeral{\csname newcount\expandafter\endcsname}{\bidi@looprepeat@count}%
6505     \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidi@looprepeat@count}%
6506     \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidi@looprepeat@count}%
6507     \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidi@looprepeat@count}%
6508   \fi \bidi@looprepeat@zero \def\bidi@looprepeat@sign{}\def\bidi@looprepeat@comp{>}\bidi@looprepeat@comp{>}
6509   \edef\bidi@looprepeat@tmp
6510     {\def\bidi@looprepeat@csargromannumeral\noexpand\bidi@looprepeat@looprepeat}{\bidi@looprepeat@looprepeat}%
6511   \afterassignment\bidi@looprepeat@dxbody\bidi@looprepeat@csromannumeral\bidi@looprepeat@toks
6512
6513 % Define and execute loop body
6514 % This is done with an \edef to construct the actual sequence
6515 \def\bidi@looprepeat@dxbody{\bidi@looprepeat@csargromannumeral\edef\bidi@looprepeat@body{\%
6516   \bidi@looprepeat@csargromannumeral\the\bidi@looprepeat@wtest}%
6517   \noexpand\the\bidi@looprepeat@csargromannumeral\noexpand\bidi@looprepeat@toks}%
6518   \bidi@looprepeat@csargromannumeral\the\bidi@looprepeat@utest}%
6519   \global\bidi@looprepeat@csargromannumeral\advance\bidi@looprepeat@count by \bidi@looprepeat@count}%
6520   \noexpand\endlooprepeat
6521   \bidi@looprepeat@csargromannumeral\noexpand\bidi@looprepeat@looprepeat}}%
6522 \bidi@looprepeat@csromannumeral\bidi@looprepeat@body\ignorespaces}
6523
6524 % Stop test
6525 %% In order to stop, issue a
6526 % \breaklooprepeat which scoops up the rest of the body and exits
6527 \def\breaklooprepeat#1\endlooprepeat{\bidi@looprepeat@zero\bidi@looprepeat@csargromannumeral
6528   \advance\bidi@looprepeat@depth\@ne \bidi@looprepeat@traceexit
6529 }
6530
6531
6532 % Setup
6533 % gather bounds and termination conditions
6534 \def\bidi@looprepeat@setup#1{%
6535   \begingroup
6536     \def\forvariable##1{%
6537       \edef\bidi@looprepeat@tmp{%
6538         \global\let\bidi@looprepeat@csarg\noexpand{##1}\bidi@looprepeat@csromannumeral\bidi@looprepeat@count}%
6539       \bidi@looprepeat@tmp}%
6540     \def\fromvalue##1{\bidi@looprepeat@csargromannumeral\global\bidi@looprepeat@count##1\ignorespaces}%
6541     \def\tovalue##1{%
6542       \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand\bidi@looprepeat@count}%
6543       {\bidi@looprepeat@csargromannumeral\the\bidi@looprepeat@wtest}%
6544       \noexpand\ifnum\bidi@looprepeat@csargromannumeral\noexpand\bidi@looprepeat@count}\bidi@looprepeat@count}%

```



```

6545         \noexpand\expandafter \noexpand\breaklooprepeat
6546         \noexpand\fi}\ignorespaces}%
6547         \bidi@looprepeat@tmp}%
6548     \def\downtovalue##1{%
6549         \gdef\bidi@looprepeat@sign{-}\gdef\bidi@looprepeat@comp{<}\tovalue{##1}\ignorespaces}%
6550     \def\bystep##1{\ifnum##1<0 \bidi@error{LOOPREPEAT: increment has to be a positive value}%
6551         \bidi@looprepeat@csargromannumeral\gdef{\bidi@looprepeat@inc}{-##1}\else
6552         \bidi@looprepeat@csargromannumeral\gdef{\bidi@looprepeat@inc}{##1}\fi\ignorespaces}%
6553     \def\untilcondition##1{%
6554         \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@comp}}
6555         {\noexpand##1\relax
6556         \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6557         \bidi@looprepeat@tmp}%
6558     \def\whilecondition##1{%
6559         \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@comp}}
6560         {\noexpand##1\relax \noexpand\else
6561         \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6562         \bidi@looprepeat@tmp}%
6563     \fromvalue{\@ne}\bystep{\@ne}#1%
6564 \endgroup}
6565 \def\bidi@looprepeat@zero
6566 {\bidi@looprepeat@csromannumeral{\bidi@looprepeat@toks}{}\bidi@looprepeat@csromannumeral{\bidi@looprepeat@body}}
6567 \bidi@looprepeat@csargromannumeral\def{\bidi@looprepeat@body}{}}
6568
6569 %\tracingmacros2
6570 %\newcount\tmpcount % used in some examples below
6571
6572 %\looprepeat \forvariable{i}
6573 %      \bystep{2}
6574 %      \doloopbody {%
6575 %          \ifnum i=13 \expandafter\breaklooprepeat \fi
6576 %          \number{i} } %
6577 %}%
6578
6579 %\looprepeat \forvariable{iii}
6580 %      \tovalue{8}
6581 %      \doloopbody {}
6582 %After loop: \number{iii}%
6583
6584 %\looprepeat \forvariable{i}
6585 %      \fromvalue{10}
6586 %      \bystep{2}
6587 %      \downtovalue{0}
6588 %      \doloopbody {\number{i} }
6589
6590 %\looprepeat \forvariable{x} \whilecondition{\ifnum x<7}
6591 %      \doloopbody {\number{x} }
6592
6593 %\looprepeat \tovalue{3} \doloopbody {Hello world! }
6594
6595 %\looprepeat \forvariable{j}
6596 %      \untilcondition{\tmpcount>j \divide\tmpcount by 37 \noexpand\ifnum\tmpcount=1}
6597 %      \doloopbody {\number{j} }
6598

```



```

6599 %\looprepeat \forvariable{i} \bystep{2} \tovalue{10} \doloopbody
6600 % {\looprepeat \forvariable{j} \fromvalue{i} \bystep{3} \tovalue{18}
6601 % \doloopbody {(\number{i}.\number{j}) }
6602 % }
6603
6604 % infinite loop
6605 %\looprepeat \doloopbody {}
6606
6607 \renewcommand{\InputIfFileExists}[2]{%
6608 \begin{group}\expandafter\expandafter\expandafter\endgroup
6609 \expandafter\ifx\csname #1-@bidi@alias\endcsname\relax
6610 \expandafter\@secondoftwo
6611 \else
6612 \bidi@replacefile@msg{\csname #1-@bidi@alias\endcsname}{#1}%
6613 \expandafter\@firstoftwo
6614 \fi
6615 {%
6616 \expandafter\InputIfFileExists\expandafter{\csname
6617 #1-@bidi@alias\endcsname}{#2}%
6618 }%
6619 {\IfFileExists{#1}{%
6620 \bidi@load@hook{before}{#1}%
6621 #2\@addtofilelist{#1}%
6622 \@input \@file@und
6623 \bidi@load@hook{after}{#1}%
6624 }}%
6625 }
6626
6627 \newcommand*{\bidi@loadwithoptions}{%
6628 \newcommand*{\bidi@loadwithoptions}{%
6629 \let\bidi@loadwithoptions\@loadwithoptions
6630
6631 \renewcommand*{\@loadwithoptions}[3]{%
6632 \begin{group}\expandafter\expandafter\expandafter\endgroup
6633 \expandafter\ifx\csname #3.#1-@bidi@aliasname\endcsname\relax
6634 \def\bidi@loadwithoptions{\bidi@loadwithoptions{#1}{#2}{#3}}%
6635 \else
6636 \bidi@replacefile@msg{\csname #3.#1-@bidi@aliasname\endcsname.#1}{#3.#1}%
6637 \def\bidi@loadwithoptions{%
6638 \@loadwithoptions{#1}{#2}{\csname #3.#1-@bidi@aliasname\endcsname}%
6639 }%
6640 \fi
6641 \bidi@loadwithoptions
6642 }
6643
6644 \newcommand*{\bidi@onefilewithoptions}{%
6645 \let\bidi@onefilewithoptions\@onefilewithoptions
6646 \def\@onefilewithoptions#1[#2][#3]#4{%
6647 \begin{group}\expandafter\expandafter\expandafter\endgroup
6648 \expandafter\ifx\csname #1.#4-@bidi@aliasname\endcsname\relax
6649 \def\bidi@onefilewithoptions{\bidi@onefilewithoptions{#1}}%
6650 \else
6651 \bidi@replacefile@msg{\csname #1.#4-@bidi@aliasname\endcsname.#4}{#1.#4}%
6652 \edef\bidi@onefilewithoptions{%

```



```

6653 \noexpand\@onefilewithoptions{\csname #1.#4-@bidi@aliasname\endcsname}}%
6654 \fi
6655 \bidi@onefilewithoptions[{\#2}][{\#3}]{\#4}%
6656 \bidi@load@hook{lateafter}{\#1.#4}%
6657 }
6658
6659 \newcommand*{\bidi@ReplaceInput}[2]{%
6660 \expandafter\edef\csname #1-@bidi@alias\endcsname{\#2}%
6661 }
6662
6663 \newcommand*{\bidi@UnReplaceInput}[1]{%
6664 \ifcsname #1-@bidi@alias\endcsname
6665 \expandafter\let\csname #1-@bidi@alias\endcsname\relax
6666 \fi
6667 }
6668
6669 \newcommand*{\@bidi@replacefilewithtext}[3]{%
6670 \expandafter\edef\csname #1.#3-@bidi@aliasname\endcsname{\#2}%
6671 }
6672 \newcommand*{\bidi@ReplacePackage}[2]{%
6673 \@bidi@replacefilewithtext{\#1}{\#2}\@pkgextension
6674 }
6675 \newcommand*{\bidi@ReplaceClass}[2]{%
6676 \@bidi@replacefilewithtext{\#1}{\#2}\@clsextension
6677 }
6678 \newcommand*{\@bidi@unreplacefilewithtext}[2]{%
6679 \ifcsname #1.#2-@bidi@aliasname\endcsname
6680 \expandafter\let\csname #1.#2-@bidi@aliasname\endcsname\relax
6681 \fi
6682 }
6683 \newcommand*{\bidi@UnReplacePackage}[1]{%
6684 \@bidi@unreplacefilewithtext{\#1}\@pkgextension
6685 }
6686 \newcommand*{\bidi@UnReplaceClass}[1]{%
6687 \@bidi@unreplacefilewithtext{\#1}\@clsextension
6688 }
6689 \newcommand*{\bidi@replacefile@msg}[2]{%
6690 \PackageInfo{biditools}{inputing `#1' instead of `#2'}%
6691 }
6692
6693 \newcommand*{\bidi@load@hook}[2]{%
6694 \@ifundefined{\#2-@#1}{\}%
6695 \@nameuse{\#2-@#1}%
6696 \expandafter\let\csname #2-@#1\endcsname=\relax}}
6697 \newcommand*{\bidi@set@load@hook}[2]{%
6698 \@ifundefined{\#2-@#1}{\@namedef{\#2-@#1}{}}{\}%
6699 \expandafter\g@addto@macro\csname #2-@#1\endcsname}
6700 \newcommand*{\bidi@BeforeFile}{\bidi@set@load@hook{before}}
6701 \newcommand*{\bidi@AfterFile}{\bidi@set@load@hook{after}}
6702 \newcommand*{\bidi@BeforeClass}[1]{%
6703 \bidi@set@load@hook{before}{\#1.\@clsextension}}
6704 \newcommand*{\bidi@AfterClass}{%
6705 \@ifstar {\@s@bidi@AfterClass}{%
6706 \@ifnextchar +\@bidi@AfterClass{

```



```

6707     \ifnextchar !\@@@bidi@AfterClass\@bidi@AfterClass
6708   }%
6709 }%
6710 }
6711
6712 \newcommand*{\@@@bidi@AfterClass}[2]{%
6713   \begingroup\ifx\csname #2.\@clsextension-h@@k\endcsname\relax
6714     \aftergroup\@s@bidi@AfterClass
6715   \else
6716     \aftergroup\bidi@AfterAtEndOfClass
6717   \fi
6718   \endgroup{#2}%
6719 }
6720
6721 \newcommand*{\bidi@AfterAtEndOfClass}[1]{%
6722   \bidi@set@load@hook{lateafter}{#1.\@clsextension}}
6723 \newcommand*{\@@@bidi@AfterClass}[2]{%
6724   \begingroup
6725     \expandafter\ifx\csname #2.\@clsextension-h@@k\endcsname\relax
6726       \aftergroup\@s@bidi@AfterClass
6727     \else
6728       \aftergroup\@bidi@AfterClass
6729     \fi
6730   \endgroup{#2}%
6731 }
6732
6733 \newcommand*{\@bidi@AfterClass}[1]{%
6734   \bidi@set@load@hook{after}{#1.\@clsextension}}
6735 \newcommand*{\@s@bidi@AfterClass}[1]{%
6736   \begingroup
6737     \ifclassloaded{#1}{%
6738       \aftergroup\@secondoftwo
6739     }{%
6740       \aftergroup\@bidi@AfterClass
6741     }%
6742   \endgroup
6743   {#1}%
6744 }
6745
6746
6747 \newcommand*{\bidi@BeforePackage}[1]{%
6748   \bidi@set@load@hook{before}{#1.\@pkgextension}}
6749 \newcommand*{\bidi@AfterPackage}{%
6750   \ifstar {\@s@bidi@AfterPackage}{%
6751     \ifnextchar +\@@@bidi@AfterPackage{%
6752       \ifnextchar !\@@@bidi@AfterPackage\@bidi@AfterPackage
6753     }%
6754   }%
6755 }
6756 \newcommand*{\@@@bidi@AfterPackage}[2]{%
6757   \begingroup\ifx\csname #2.\@pkgextension-h@@k\endcsname\relax
6758     \aftergroup\@s@bidi@AfterPackage
6759   \else
6760     \aftergroup\bidi@AfterAtEndOfPackage

```



```

6761 \fi
6762 \endgroup{#2}%
6763 }
6764 \newcommand*{\@bidi@AfterAtEndOfPackage}[1]{%
6765 \bidi@set@load@hook{lateafter}{#1.\@pkgextension}}
6766 \newcommand*{\@bidi@AfterPackage}[2]{%
6767 \begingroup
6768 \expandafter\ifx\csname #2.\@pkgextension-h@k\endcsname\relax
6769 \aftergroup\@s@bidi@AfterPackage
6770 \else
6771 \aftergroup\@bidi@AfterPackage
6772 \fi
6773 \endgroup{#2}%
6774 }
6775 \newcommand*{\@bidi@AfterPackage}[1]{%
6776 \bidi@set@load@hook{after}{#1.\@pkgextension}}
6777 \newcommand*{\@s@bidi@AfterPackage}[1]{%
6778 \begingroup
6779 \@ifpackageloaded{#1}{%
6780 \aftergroup\@secondoftwo
6781 }{%
6782 \aftergroup\@bidi@AfterPackage
6783 }%
6784 \endgroup
6785 {#1}%
6786 }
6787
6788 \newcommand*{\@bidi@excludedpackages}{}
6789 \let\bidi@excludedpackages\@empty
6790 \newcommand*{\@bidi@saved@RequirePackage}{}
6791 \newcommand*{\@bidi@PreventPackageFromLoading}{}
6792 \@ifstar{\@bidi@PreventPackageFromLoading\PackageInfo}%
6793 {\@bidi@PreventPackageFromLoading\PackageWarning}%
6794 }
6795 \newcommand*{\@bidi@PreventPackageFromLoading}[1]{%
6796 \@ifnextchar [%]
6797 {\@bidi@PreventPackageFromLoading#1}{\@bidi@PreventPackageFromLoading#1[]}%
6798 }
6799 \newcommand*{\@bidi@PreventPackageFromLoading}{}
6800
6801 \def\@bidi@PreventPackageFromLoading#1[#2]#3{%
6802 \edef\reserved@b{\zap@space#3 \@empty}%
6803 \ifx \reserved@b\@empty
6804 #1{\bidi@tools}{%
6805 \string\bidi@PreventPackageFromLoading\space with empty packages\MessageBreak
6806 argument ignored%
6807 }%
6808 \else
6809 \ifx\bidi@excludedpackages\@empty
6810 \let\bidi@saved@RequirePackage\RequirePackage
6811 \let\RequirePackage\bidi@RequirePackage
6812 \def\reserved@a##1##{%
6813 \@latex@error
6814 {\noexpand \usepackage before \string\documentclass}%

```



```

6815     {\noexpand \usepackage may only appear in the document
6816      preamble, i.e.,\MessageBreak
6817      between \noexpand\documentclass and
6818      \string\begin{document}.}%
6819     \@gobble}%
6820 \ifx\reserved@a\usepackage\else
6821   \ifx\usepackage\bidisaved@RequirePackage\else
6822     \PackageWarning{biditools}{%
6823       Maybe serious problem: unexpected definition of\MessageBreak
6824       \string\usepackage
6825     }%
6826   \fi
6827   \let\usepackage\RequirePackage
6828 \fi
6829 \fi
6830 \expandafter\@for \expandafter\reserved@a\expandafter:\expandafter=%
6831 \reserved@b\do {%
6832   \ifx\reserved@a\@empty
6833     #1{biditools}{%
6834       empty package argument for
6835       \string\bidisaved@PreventPackageFromLoading\MessageBreak
6836       ignored%
6837     }%
6838   \else
6839     \expandafter\@ifpackageloaded\expandafter{\reserved@a}{%
6840       #1{biditools}{%
6841         package '\reserved@a' already loaded.\MessageBreak
6842         Cannot prevent it from being loaded%
6843       }%
6844     }{%
6845       \edef\bidisaved@excludedpackages{\bidisaved@excludedpackages,%
6846         \reserved@a}%
6847       \if\relax\detokenize{#2}\relax\else
6848         \@ifundefined{bidisaved@exclude@package@\reserved@a @do}{%
6849           \namedef{bidisaved@exclude@package@\reserved@a @do}{}%
6850         }{%
6851           \expandafter\def
6852             \csname bidisaved@exclude@package@\reserved@a
6853               @do\expandafter\expandafter\expandafter\endcsname
6854             \expandafter\expandafter\expandafter{%
6855               \csname bidisaved@exclude@package@\reserved@a @do\endcsname
6856               #2%
6857             }%
6858         \fi
6859       }%
6860     \fi
6861   }%
6862   \ifx\bidisaved@excludedpackages\@empty
6863     \bidisaved@ResetPreventPackageFromLoading
6864   \fi
6865 \fi
6866 }
6867
6868 \@onlypreamble\bidisaved@PreventPackageFromLoading

```



```

6869 \newcommand*{\bidi@ResetPreventPackageFromLoading}{%
6870   \let\bidi@excludedpackages\@empty
6871   \ifx\RequirePackage\bidi@RequirePackage
6872     \ifx\usepackage\RequirePackage
6873       \let\usepackage\bidi@saved@RequirePackage
6874     \fi
6875     \let\RequirePackage\bidi@saved@RequirePackage
6876   \fi
6877 }
6878 \@onlypreamble\bidi@ResetPreventPackageFromLoading
6879 \newcommand*{\bidi@StorePreventPackageFromLoading}[1]{%
6880   \let#1\bidi@excludedpackages
6881 }
6882 \@onlypreamble\bidi@StorePreventPackageFromLoading
6883 \newcommand*{\bidi@UnPreventPackageFromLoading}{%
6884   \@ifstar {\@tempswatrue\bidi@UnPreventPackageFromLoading}%
6885             {\@tempswafalse\bidi@UnPreventPackageFromLoading}%
6886 }
6887
6888 \newcommand*{\@bidi@UnPreventPackageFromLoading}[1]{%
6889   \edef\reserved@b{\zap@space#1 \@empty}%
6890   \if@tempswa
6891     \@for\reserved@a=\reserved@b\do {%
6892       \ifx\reserved@a\@empty \else
6893         \ifcsname bidi@exclude@package@\reserved@a @do\endcsname
6894           \expandafter\let
6895             \csname bidi@exclude@package@\reserved@a @do\endcsname
6896             \undefined
6897         \fi
6898       \fi
6899     }%
6900   \fi
6901   \ifcsname bidi@excludedpackages\endcsname
6902     \let\reserved@a\bidi@excludedpackages
6903     \let\bidi@excludedpackages\@empty
6904     \expandafter\@for\expandafter\reserved@c
6905     \expandafter:\expandafter=\reserved@a
6906     \do{%
6907       \ifx\reserved@c\@empty\else
6908         \@expandtwoargs\in@{,\reserved@c,}{,\reserved@b,}%
6909         \ifin@
6910           \else
6911             \edef\bidi@excludedpackages{%
6912               \bidi@excludedpackages,\reserved@c
6913             }%
6914           \fi
6915         \fi
6916       }%
6917     \ifx\bidi@excludedpackages\@empty\bidi@ResetPreventPackageFromLoading\fi
6918   \fi
6919 }
6920
6921
6922 \newcommand*{\bidi@RequirePackage}[2] [] {%

```





```

6923 \let\reserved@c\@empty
6924 \let\reserved@d\@empty
6925 \edef\reserved@b{\zap@space#2 \@empty}%
6926 \expandafter\@for\expandafter\reserved@b\expandafter:\expandafter=\reserved@b
6927 \do {%
6928   \begingroup
6929     \@tempwattrue
6930     \@for\reserved@a:=\bidi@excludedpackages\do {%
6931       \ifx\reserved@a\reserved@b
6932         \@tempwafalse
6933       \fi
6934     }%
6935     \if@tempswa
6936       \xdef\reserved@c{\reserved@c,\reserved@b}%
6937     \else
6938       \ifx\reserved@b\@empty\else
6939         \PackageInfo{biditools}{Excluding package `\'reserved@b'\MessageBreak
6940           from loading}%
6941         \@ifundefined{bidi@exclude@package@\reserved@b @do}{%
6942           }{%
6943             \expandafter\g@addto@macro\expandafter\reserved@d
6944             \csname bidi@exclude@package@\reserved@b @do\endcsname
6945           }%
6946       \fi
6947     \fi
6948   \endgroup
6949 }%
6950 \ifx\reserved@c\@empty
6951   \let\reserved@a\bidi@gobbleopt
6952 \else
6953   \edef\reserved@a{\noexpand\bidi@saved@RequirePackage[#1]{%
6954     \expandafter\@gobble\reserved@c\@empty}}%
6955 \fi
6956 \expandafter\reserved@d
6957 \reserved@a
6958 }
6959
6960 \newcommand{\bidi@gobbleopt}[1][]{%
6961 \AtEndDocument{%
6962   \let\bidi@saved@checkend=\@checkend
6963   \renewcommand*{\@checkend}[1]{%
6964     \def\reserved@a{#1}\def\reserved@b{document}%
6965     \bidi@saved@checkend{#1}%
6966     \ifx\reserved@a\reserved@b
6967       \let\bidi@saved@clearpage=\clearpage
6968       \renewcommand*{\clearpage}{\bidi@saved@clearpage
6969         \bidi@hook@bcma
6970         \bidi@restore@newpage
6971         \let\clearpage=\bidi@saved@clearpage}%
6972     \fi%
6973     \let\bidi@saved@dofilelist\@dofilelist
6974     \def\@dofilelist{%
6975       \bidi@hook@acma
6976       \let\@dofilelist\bidi@saved@dofilelist

```



```

6977     \bidi@saved@dofilelist
6978   }%
6979 }%
6980 }
6981
6982
6983 \newcommand*{\bidi@saved@checkend}{%
6984 \newcommand*{\bidi@saved@dofilelist}{%
6985 \newcommand*{\bidi@redefine@newpage}{%
6986   \let\bidi@saved@newpage\newpage
6987   \def\bidi@restore@newpage{%
6988     \renewcommand*{\newpage}{%
6989       \PackageWarningNoLine{%
6990         biditools%
6991       }{%
6992         \string\newpage\space at main aux file!\MessageBreak
6993         You have output material at the main aux file.\MessageBreak
6994         Note, that the \string\bidi@BeforeClosingMainAux\space commands\MessageBreak
6995         are processed before the output from aux file%
6996       }%
6997       \let\newpage\bidi@saved@newpage
6998       \newpage
6999     }%
7000   }%
7001   \renewcommand*{\newpage}{%
7002     \PackageError{%
7003       biditools%
7004     }{%
7005       \string\newpage\space at \string\bidi@BeforeClosingMainAux
7006     }{%
7007       You should never use \string\newpage\space or
7008       \string\clear(double)page or other output material at the\MessageBreak
7009       argument of \string\bidi@BeforeClosingMainAux!\MessageBreak
7010       If you'll continue, the \string\newpage\space will be ignored to
7011       avoid corruption of\MessageBreak
7012       every prior use of \string\bidi@BeforeClosingMainAux.
7013     }%
7014   }%
7015 }
7016
7017 \newcommand*{\bidi@restore@newpage}{%
7018 \newcommand*{\bidi@hook@bcma}{%
7019 \newcommand*{\bidi@hook@acma}{%
7020 \newcommand*{\bidi@BeforeClosingMainAux}{%
7021   \ifx\bidi@hook@bcma\empty
7022     \gdef\bidi@hook@bcma{%
7023       \renewcommand*{\bidi@BeforeClosingMainAux}[1]{####1}%
7024       \let\protected@write\bidi@protected@immediate@write
7025       \bidi@redefine@newpage
7026     }%
7027   \fi
7028   \g@addto@macro\bidi@hook@bcma%
7029 }
7030

```



```

7031 \newcommand*{\bidi@AfterReadingMainAux}{%
7032   \ifx\bidi@hook@acma\@empty
7033     \gdef\bidi@hook@acma{%
7034       \renewcommand*{\bidi@AfterReadingMainAux}[1]{####1}%
7035       \let\protected@write\bidi@protected@immediate@write
7036     }%
7037   \fi
7038   \g@addto@macro\bidi@hook@acma%
7039 }
7040
7041 \long\def\bidi@protected@immediate@write#1#2#3{%
7042   \begingroup
7043     #2%
7044     \let\protect\@unexpandable@protect
7045     \edef\reserved@a{\immediate\write#1{#3}}%
7046     \reserved@a
7047   \endgroup
7048   \if@nobreak\ifvmode\nobreak\fi\fi
7049 }
7050
7051 \def\bidi@patch@counter{0}%
7052 \if@bidi@csundef{numexpr}{%
7053   \def\bidi@patch@stepcounter{%
7054     \begingroup
7055       \count@\bidi@patch@counter\relax
7056       \advance\count@\@ne\relax
7057     \edef\x{\endgroup
7058       \noexpand\def\noexpand\bidi@patch@counter{\the\count@}%
7059     }%
7060     \x
7061   }%
7062 }{%
7063   \def\bidi@patch@stepcounter{%
7064     \edef\bidi@patch@counter{%
7065       \the\numexpr\bidi@patch@counter+\@ne\relax
7066     }%
7067   }%
7068 }
7069 \def\bidi@patch@list{}
7070 \def\bidi@patch@Add{%
7071   \bidi@appto\bidi@patch@list
7072 }
7073 \def\bidi@patch@AfterPackage#1{%
7074   \@ifpackageloaded{#1}{%
7075     \@firstofone
7076   }{%
7077     \@bidi@patch@AfterPackage{#1}%
7078   }%
7079 }
7080 \def\@bidi@patch@AfterPackage#1{%
7081   \edef\bidi@patch@temp{#1}%
7082   \bidi@patch@stepcounter
7083   \expandafter\bidi@patch@@AfterPackage
7084   \csname @bidi@patch@\bidi@patch@counter\expandafter\endcsname{%

```



```

7085 \bidi@patch@temp
7086 }%
7087 }
7088 \def\bidi@patch@@AfterPackage#1#2#3{%
7089 \begingroup
7090 \toks@{#3}%
7091 \xdef\bidi@patch@gtemp{%
7092 \noexpand\@ifpackageloaded{#2}{%
7093 \noexpand\let\noexpand#1\noexpand\relax
7094 \the\toks@
7095 }{}%
7096 }%
7097 \endgroup
7098 \let#1\bidi@patch@gtemp
7099 \bidi@patch@Add#1%
7100 \bidi@patch@try{\bidi@AfterPackage}{#2}#1%
7101 }
7102
7103 \def\bidi@patch@try#1#2#3{%
7104 \if@bidi@csundef{#1}{-}{%
7105 \csname #1\endcsname{#2}{#3}%
7106 }%
7107 }
7108
7109 \AtBeginDocument{\bidi@patch@list}
7110
7111 \bidi@AtEndPreamble{\bidi@patch@list}%
7112
7113 \bidi@AfterEndPreamble{%
7114 \let\bidi@patch@OrgIfPackageLoaded\@ifpackageloaded
7115 \let\bidi@patch@OrgIfPackageLater\@ifpackagelater
7116 \let\bidi@patch@OrgIfClassLoaded\@ifclassloaded
7117 \let\bidi@patch@OrgIfClassLater\@ifclasslater
7118 \bidi@patch@list
7119 \let\@ifpackageloaded\bidi@patch@OrgIfPackageLoaded
7120 \let\@ifpackagelater\bidi@patch@OrgIfPackageLater
7121 \let\@ifclassloaded\bidi@patch@OrgIfClassLoaded
7122 \let\@ifclasslater\bidi@patch@OrgIfClassLater
7123 }%

```

## 53 File bidentuftefloat.sty

```

7124 \NeedsTeXFormat{LaTeX2e}
7125 \ProvidesPackage{bidentuftefloat}[2017/05/19 v0.2
7126 bidi implementation of tufte float]
7127 \RequirePackage{xifthen}
7128 \newcommand{\@bidentuftefloat@pkgname}{bidentuftefloat}
7129 \newcommand{\bidentuftefloatError}[2]{\PackageError{\@bidentuftefloat@pkgname}{#1}{#2}}
7130 \newcommand{\bidentuftefloatDebugInfoNL}[1]{\ifthenelse{\boolean{@bidentuftefloat@debug}}{\bid
7131 \newcommand{\bidentuftefloatInfoNL}[1]{\PackageInfo{\@bidentuftefloat@pkgname}{#1\@gobble}}
7132 \newboolean{@bidentuftefloat@reversegeometry}
7133 \setboolean{@bidentuftefloat@reversegeometry}{false}
7134 \DeclareOption{reversegeometry}{\setboolean{@bidentuftefloat@reversegeometry}{true}}
7135 \newboolean{@bidentuftefloat@a4paper}

```



```

7136 \DeclareOption{a4paper}{\setboolean{@biditytfloat@a4paper}{true}}
7137 \newboolean{@biditytfloat@b5paper}
7138 \DeclareOption{b5paper}{\setboolean{@biditytfloat@b5paper}{true}}
7139 \newboolean{@biditytfloat@symmetric}
7140 \newboolean{@biditytfloat@twoside}
7141 \DeclareOption{twoside}{%
7142 \@twoside true \mparswitch true%
7143 \setboolean{@biditytfloat@twoside}{true}%
7144 \setboolean{@biditytfloat@symmetric}{true}%
7145 }
7146 \DeclareOption{oneside}{%
7147 \@twoside false \mparswitch false%
7148 \setboolean{@biditytfloat@twoside}{false}%
7149 \setboolean{@biditytfloat@symmetric}{false}%
7150 }
7151 \@ifclassloaded{book}{\ExecuteOptions{twoside}}{}
7152 \newboolean{@biditytfloat@debug}
7153 \newcommand*{@biditytfloat@caption@justification}{@biditytfloat@justification@autodete
7154 \ProcessOptions
7155 %% Globally sets the length
7156 \newcommand*{\gsetlength}[2]{%
7157 \setlength{#1}{#2}%
7158 \global#1=#1\relax%
7159 }
7160
7161 %% Set the font sizes and baselines to match biditytfloat's books
7162 \renewcommand\normalsize{%
7163 \setfontsize\normalsize\@xpt{14}%
7164 \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
7165 \abovedisplayshortskip \z@ \@plus3\p@
7166 \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
7167 \belowdisplayskip \abovedisplayskip
7168 \let\@listi\@listI}
7169 \normalbaselineskip=14pt
7170 \normalsize
7171 \renewcommand\footnotesize{%
7172 \setfontsize\footnotesize\@viipt{10}%
7173 \abovedisplayskip 6\p@ \@plus2\p@ \@minus4\p@
7174 \abovedisplayshortskip \z@ \@plus\p@
7175 \belowdisplayshortskip 3\p@ \@plus\p@ \@minus2\p@
7176 \def\@listi{\leftmargin\leftmarginI
7177 \topsep 3\p@ \@plus\p@ \@minus\p@
7178 \parsep 2\p@ \@plus\p@ \@minus\p@
7179 \itemsep \parsep}%
7180 \belowdisplayskip \abovedisplayskip
7181 }
7182 %% Paragraph indentation and separation for marginal text
7183 \newcommand{@biditytfloat@margin@par}{%
7184 \setlength{\RaggedRightParindent}{0.5pc}%
7185 \setlength{\JustifyingParindent}{0.5pc}%
7186 \setlength{\parindent}{0.5pc}%
7187 \setlength{\parskip}{0pt}%
7188 }
7189 \RequirePackage{ragged2e}

```



```

7190 \ifthenelse{\boolean{@bidituftefloat@reversegeometry}}{%
7191 \RequirePackage[letterpaper,right=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpa
7192 \ifthenelse{\boolean{@bidituftefloat@a4paper}}
7193 {\geometry{a4paper,right=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpa
7194 {}
7195 \ifthenelse{\boolean{@bidituftefloat@bfivepaper}}
7196 {\geometry{paperwidth=176mm,paperheight=250mm,right=14.66mm,top=13.88mm,textwidth=102.66mm
7197 {}}%
7198 \RequirePackage[letterpaper,left=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpa
7199 \ifthenelse{\boolean{@bidituftefloat@a4paper}}
7200 {\geometry{a4paper,left=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpa
7201 {}
7202 \ifthenelse{\boolean{@bidituftefloat@bfivepaper}}
7203 {\geometry{paperwidth=176mm,paperheight=250mm,left=14.66mm,top=13.88mm,textwidth=102.66mm,
7204 {}}%
7205 \ifthenelse{\boolean{@bidituftefloat@symmetric}}
7206 {}
7207 {\geometry{asymmetric}}}% forces internal LaTeX `twoside'
7208 \setlength\marginparpush{10pt}
7209 %% Font for margin items
7210 \newcommand{\@bidituftefloat@marginfont}{\normalfont\footnotesize}
7211 \newcommand*{\@bidituftefloat@caption@font}{\@bidituftefloat@marginfont}
7212 \newcommand*{\setcaptionfont}[1]{\renewcommand*{\@bidituftefloat@caption@font}{#1}}
7213 \newcommand{\@bidituftefloat@justification}{\justifying}%
7214 \setlength\abovedisplayskip{6pt plus 2pt minus 4pt}
7215 \setlength\belowdisplayskip{6pt plus 2pt minus 4pt}
7216 \newboolean{@bidituftefloat@changepage}
7217 \IfFileExists{changepage.sty}{%
7218 \bidituftefloatDebugInfoNL{Found changepage.sty}
7219 \RequirePackage[strict]{changepage}
7220 \setboolean{@bidituftefloat@changepage}{true}
7221 }{%
7222 \bidituftefloatDebugInfoNL{Found chngpage.sty}
7223 \RequirePackage[strict]{chngpage}
7224 \setboolean{@bidituftefloat@changepage}{false}
7225 }
7226 \newboolean{@bidituftefloat@odd@page}
7227 \setboolean{@bidituftefloat@odd@page}{true}
7228 \newcommand*{\@bidituftefloat@checkoddpage}{%
7229 \checkoddpage%
7230 \ifthenelse{\boolean{@bidituftefloat@changepage}}{%
7231 \ifoddpage%
7232 \setboolean{@bidituftefloat@odd@page}{true}%
7233 \else%
7234 \setboolean{@bidituftefloat@odd@page}{false}%
7235 \fi%
7236 }{%
7237 \ifcpoddpage%
7238 \setboolean{@bidituftefloat@odd@page}{true}%
7239 \else%
7240 \setboolean{@bidituftefloat@odd@page}{false}%
7241 \fi%
7242 }%
7243 }

```



```

7244 \newlength{\@bidituftefloat@overhang}% used by the fullwidth environment and the running head
7245 \newlength{\@bidituftefloat@fullwidth}
7246 \newlength{\@bidituftefloat@caption@fill}
7247 \newcommand{\@bidituftefloatRecalculate}{%
7248   \setlength{\@bidituftefloat@overhang}{\marginparwidth}
7249   \addtolength{\@bidituftefloat@overhang}{\marginparsep}
7250
7251   \setlength{\@bidituftefloat@fullwidth}{\textwidth}
7252   \addtolength{\@bidituftefloat@fullwidth}{\marginparsep}
7253   \addtolength{\@bidituftefloat@fullwidth}{\marginparwidth}
7254
7255   \setlength{\@bidituftefloat@caption@fill}{\textwidth}
7256   \addtolength{\@bidituftefloat@caption@fill}{\marginparsep}
7257 }
7258 \AtBeginDocument{\@bidituftefloatRecalculate}
7259 \RequirePackage{optparams}% provides multiple optional arguments for commands
7260 \RequirePackage{placeins}
7261 \newsavebox{\@bidituftefloat@margin@floatbox}
7262 \newenvironment{@bidituftefloat@margin@float}[2][-1.2ex]%
7263   {\FloatBarrier% process all floats before this point so the figure/table numbers stay in order}
7264   {\begin{lrbox}{\@bidituftefloat@margin@floatbox}%
7265     \begin{minipage}{\marginparwidth}%
7266       \@bidituftefloat@caption@font%
7267       \def\@capttype{#2}%
7268       \hbox{\vspace*{#1}%
7269         \@bidituftefloat@caption@justification%
7270         \@bidituftefloat@margin@par%
7271         \noindent%
7272       }
7273     {\end{minipage}%
7274     \end{lrbox}%
7275     \marginpar{\usebox{\@bidituftefloat@margin@floatbox}}%
7276   }
7277 \newenvironment{marginfigure}[1][-1.2ex]%
7278   {\begin{@bidituftefloat@margin@float}[#1]{figure}}
7279   {\end{@bidituftefloat@margin@float}}
7280 \newenvironment{margintable}[1][-1.2ex]%
7281   {\begin{@bidituftefloat@margin@float}[#1]{table}}
7282   {\end{@bidituftefloat@margin@float}}
7283 \newcommand*{\@bidituftefloat@justification@autodetect}{\justifying}%
7284
7285 \newcommand{\@bidituftefloat@float@debug@info}{}% contains debug info generated as the float is processed
7286 \newcommand{\@bidituftefloat@float@debug}[1]{% adds debug info to the queue for output
7287   \ifthenelse{\equal{\@bidituftefloat@float@debug@info}{}}{%
7288     {\def\@bidituftefloat@float@debug@info{#1}}%
7289     {\g@addto@macro\@bidituftefloat@float@debug@info{\MessageBreak#1}}%
7290   }
7291 \newcommand{\floatalignment}{x}% holds the current float alignment (t, b, h, p)
7292 \newcommand{\setfloatalignment}[1]{\global\def\floatalignment{#1}\@bidituftefloat@float@debug{setfloatalignment}}
7293 \newboolean{@bidituftefloat@float@recto}
7294 \newcommand{\forcerectofloat}{\GlobalSetBoolean{@bidituftefloat@float@recto}{true}\@bidituftefloat@float@debug{forcerectofloat}}
7295 \newcommand{\forceversofloat}{\GlobalSetBoolean{@bidituftefloat@float@recto}{false}\@bidituftefloat@float@debug{forceversofloat}}
7296 \newsavebox{\@bidituftefloat@figure@box}
7297 \newsavebox{\@bidituftefloat@caption@box}

```



```

7298 \let\@biditytfloat@orig@float\@float
7299 \let\@biditytfloat@orig@endfloat\endfloat
7300 \newlength{\@biditytfloat@caption@vertical@offset}
7301 \setlength{\@biditytfloat@caption@vertical@offset}{0pt}
7302 \newcommand{\@biditytfloat@stored@shortcaption}{}
7303 \newcommand{\@biditytfloat@stored@caption}{}
7304 \newcommand{\@biditytfloat@stored@label}{}
7305 \long\def\@biditytfloat@caption[#1][#2]#3{%
7306   \ifthenelse{\isempty{#1}}%
7307     {\gdef\@biditytfloat@stored@shortcaption{#3}}%
7308     {\gdef\@biditytfloat@stored@shortcaption{#1}}%
7309   \gsetlength{\@biditytfloat@caption@vertical@offset}{-#2}% we want a positive offset to 1
7310   \gdef\@biditytfloat@stored@caption{#3}%
7311 }
7312 \newcommand{\@biditytfloat@label}[1]{%
7313   \gdef\@biditytfloat@stored@label{#1}%
7314 }
7315 \newcommand{\@biditytfloat@fps}{}
7316 \newboolean{\@biditytfloat@float@star}
7317 \newlength{\@biditytfloat@float@contents@width}
7318 \newenvironment{\@biditytfloat@float}[3][htbp]%
7319 {% begin \@biditytfloat@float
7320   % Should this float be full-width or just text-width?
7321   \ifthenelse{\equal{#3}{star}}%
7322     {\GlobalSetBoolean{\@biditytfloat@float@star}{true}}%
7323     {\GlobalSetBoolean{\@biditytfloat@float@star}{false}}%
7324   % Check page side (recto/verso) and store detected value -- can be overridden in environm
7325   \@biditytfloat@checkoddpages%
7326   \ifthenelse{\boolean{\@biditytfloat@odd@page}}%
7327     {\GlobalSetBoolean{\@biditytfloat@float@recto}{true}\@biditytfloat@float@debug{Dete
7328     {\GlobalSetBoolean{\@biditytfloat@float@recto}{false}\@biditytfloat@float@debug{Det
7329   % If the float placement specifier is 'b' and only 'b', then bottom-align the mini-pages
7330   \renewcommand{\@biditytfloat@fps}{#1}%
7331   \@biditytfloat@float@debug{Allowed positions: [ #1 ]}%
7332   \ifthenelse{\equal{#1}{b}\OR\equal{#1}{B}}%
7333     {\renewcommand{\floatalignment}{b}\@biditytfloat@float@debug{Presumed position: [bot
7334     {\renewcommand{\floatalignment}{t}\@biditytfloat@float@debug{Presumed position: [top
7335   % Capture the contents of the \caption and \label commands to use later
7336   \global\let\@biditytfloat@orig@caption\caption%
7337   \global\let\@biditytfloat@orig@label\label%
7338   \renewcommand{\caption}{\optparams{\@biditytfloat@caption}{[ ] [Opt]}}%
7339   \renewcommand{\label}[1]{\@biditytfloat@label{##1}}%
7340   % Handle subfigure package compatibility
7341   \ifthenelse{\boolean{\@biditytfloat@packages@subfigure}}{%
7342     \bidi@patchcmd{\subfigure}{%
7343       \let\subfig@oldlabel=\label
7344     }{%
7345       \let\subfig@oldlabel=\@biditytfloat@orig@label
7346     }
7347   }
7348   {}
7349   \let\subtable=\subfigure
7350 }{}% subfigure package is not loaded
7351 \@biditytfloat@orig@float{#2}[#1]%

```





```

7352 \ifthenelse{\boolean{@biditytfloat@float@star}}%
7353   {\setlength{\@biditytfloat@float@contents@width}{\@biditytfloat@fullwidth}}%
7354   {\setlength{\@biditytfloat@float@contents@width}{\textwidth}}%
7355 \begin{lrbox}{\@biditytfloat@figure@box}%
7356 \begin{minipage}{\floatalignment}{\@biditytfloat@float@contents@width}\hbox{}%
7357 }{% end @biditytfloat@float
7358   \par\hbox{}\vspace{-\baselineskip}\ifthenelse{\prevdepth>0}{\vspace{-\prevdepth}}{}% a
7359   \end{minipage}%
7360 \end{lrbox}%
7361 % build the caption box
7362 \begin{lrbox}{\@biditytfloat@caption@box}%
7363   \begin{minipage}{\floatalignment}{\marginparwidth}\hbox{}%
7364     \ifthenelse{\NOT\equal{\@biditytfloat@stored@caption}{}}{\@biditytfloat@orig@cap
7365     \ifthenelse{\NOT\equal{\@biditytfloat@stored@label}{}}{\@biditytfloat@orig@label
7366     \par\vspace{-\prevdepth}}% TODO: DOUBLE-CHECK FOR SAFETY
7367   \end{minipage}%
7368 \end{lrbox}%
7369 % now typeset the stored boxes
7370 \begin{fullwidth}%
7371   \begin{minipage}{\floatalignment}{\linewidth}%
7372     \ifthenelse{\boolean{@biditytfloat@float@star}}%
7373       {\@biditytfloat@float@fullwidth[\@biditytfloat@caption@vertical@offset]{\@bidi
7374       {\@biditytfloat@float@textwidth[\@biditytfloat@caption@vertical@offset]{\@bidi
7375     \end{minipage}%
7376 \end{fullwidth}%
7377 \@biditytfloat@orig@endfloat% end original LaTeX float environment
7378 % output debug info
7379 \ifthenelse{\boolean{@biditytfloat@debug}}{%
7380   \typeout{^^J^^J----- biditytfloat package float information -----}%
7381   \ifthenelse{\equal{\@biditytfloat@stored@label}{}}%
7382     {\typeout{Warning: Float unlabeled!}}%
7383     {\typeout{Float label: [\@biditytfloat@stored@label]}}%
7384   \typeout{Page number: [\thepage]}%
7385   \def\MessageBreak{^^J}%
7386   \typeout{\@biditytfloat@float@debug@info}%
7387   \ifthenelse{\boolean{@biditytfloat@symmetric}}%
7388     {\typeout{Symmetric: [true]}}%
7389     {\typeout{Symmetric: [false]}}%
7390   \typeout{-----^^J^^J}%
7391 }{%
7392 % reset commands and temp boxes and captions
7393 \gdef\@biditytfloat@float@debug@info{}%
7394 \let\caption\@biditytfloat@orig@caption%
7395 \let\label\@biditytfloat@orig@label%
7396 \begin{lrbox}{\@biditytfloat@figure@box}\hbox{}\end{lrbox}%
7397 \begin{lrbox}{\@biditytfloat@caption@box}\hbox{}\end{lrbox}%
7398 \gdef\@biditytfloat@stored@shortcaption{}%
7399 \gdef\@biditytfloat@stored@caption{}%
7400 \gdef\@biditytfloat@stored@label{}%
7401 \gsetlength{\@biditytfloat@caption@vertical@offset}{0pt}% reset caption offset
7402 }
7403 \newcommand{\@biditytfloat@float@textwidth}[3][0pt]{%
7404   \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}\OR\boolean{@biditytfloat@float@recto
7405     % asymmetric or page is odd, so caption is on the right

```



```

7406 \hbox{%
7407 \usebox{#2}%
7408 \hspace{\marginparsep}%
7409 \smash{\raisebox{#1}{\usebox{#3}}}%
7410 }
7411 \@biditytfloat@float@debug{Caption position: [right]]%
7412 }{% symmetric pages and page is even, so caption is on the left
7413 \hbox{%
7414 \smash{\raisebox{#1}{\usebox{#3}}}%
7415 \hspace{\marginparsep}%
7416 \usebox{#2}%
7417 }
7418 \@biditytfloat@float@debug{Caption position: [left]]%
7419 }%
7420 }
7421 \newcommand{\@biditytfloat@float@fullwidth}[3][Opt]{%
7422 \ifthenelse{\equal{\floatalignment}{b}}{%
7423 % place caption above figure
7424 \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}\OR\boolean{@biditytfloat@float@right}}{\hfill\smash{\raisebox{#1}{\usebox{#3}}}\par\usebox{#2}\@biditytfloat@float@debug}{\smash{\raisebox{#1}{\usebox{#3}}}\hfill\par\usebox{#2}\@biditytfloat@float@debug}
7425 }{% place caption below figure
7426 \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}\OR\boolean{@biditytfloat@float@right}}{\usebox{#2}\par\hfill\smash{\raisebox{#1}{\usebox{#3}}}\@biditytfloat@float@debug}{\usebox{#2}\par\smash{\raisebox{#1}{\usebox{#3}}}\hfill\@biditytfloat@float@debug}
7427 }%
7428 }
7429 }
7430 }
7431 }
7432 }
7433 \renewenvironment{figure}[1][htbp]%
7434 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{}}
7435 {\end{@biditytfloat@float}}
7436 \renewenvironment{table}[1][htbp]
7437 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{}}
7438 {\end{@biditytfloat@float}}
7439 \renewenvironment{figure*}[1][htbp]%
7440 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{star}}
7441 {\end{@biditytfloat@float}}
7442 \renewenvironment{table*}[1][htbp]%
7443 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{star}}
7444 {\end{@biditytfloat@float}}
7445 \newenvironment{fullwidth}
7446 {\ifthenelse{\boolean{@biditytfloat@symmetric}}%
7447 {\ifthenelse{\boolean{@biditytfloat@change page}}{\begin{adjustwidth*}{- \@biditytfloat@overhang}}%
7448 {\begin{adjustwidth*}{- \@biditytfloat@overhang}}}%
7449 }%
7450 {\ifthenelse{\boolean{@biditytfloat@symmetric}}%
7451 {\ifthenelse{\boolean{@biditytfloat@change page}}{\end{adjustwidth*}}{\end{adjustwidth*}}%
7452 {\end{adjustwidth*}}}%
7453 }
7454 \long\def\caption#1[#2]#3{%
7455 \par%
7456 \addcontentsline{\csname ext@#1\endcsname}{#1}%
7457 {\protect\numberline{\csname the#1\endcsname}{\ignorespaces #2}}%
7458 \begingroup%
7459 \@parboxrestore%

```



```

7460 \if@minipage%
7461 \setminipage%
7462 \fi%
7463 \@bituftefloat@caption@font\@bituftefloat@caption@justification%
7464 \noindent\csname fnum@#1\endcsname: \ignorespaces#3\par%
7465 %\@makecaption{\csname fnum@#1\endcsname}{\ignorespaces #3}\par
7466 \endgroup}
7467 %%
7468 % Turns newlines into spaces. Based on code from the `titlesec' package.
7469 \DeclareRobustCommand{\@bituftefloating@newlinetospace}{%
7470 \ifstar{\@bituftefloating@newlinetospace@i}{\@bituftefloating@newlinetospace@i}%
7471 }
7472 \def\@bituftefloating@newlinetospace@i{%
7473 \ifdim\lastskip>\z@else\space\fi
7474 \ignorespaces%
7475 }
7476 \DeclareRobustCommand{\newlinetospace}[1]{%
7477 \let\@bituftefloating@orig@cr\\% save the original meaning of \\
7478 \def\\{\@bituftefloating@newlinetospace}% turn \\ and \\* into \space
7479 \let\newline\\% turn \newline into \space
7480 #1%
7481 \let\\ \@bituftefloating@orig@cr% revert to original meaning of \\
7482 }
7483 \RequirePackage{fancyhdr}
7484 \pagestyle{fancy}
7485 \AtBeginDocument{%
7486 \ifthenelse{\boolean{@bituftefloat@symmetric}}{
7487 {\fancyhfoffset[LE,RO]{\@bituftefloat@overhang}}
7488 {\fancyhfoffset[RE,RO]{\@bituftefloat@overhang}}
7489 }
7490 % The running heads/feet don't have rules
7491 \renewcommand{\headrulewidth}{0pt}
7492 \renewcommand{\footrulewidth}{0pt}
7493 % The 'fancy' page style is the default style for all pages.
7494 \fancyhf{} % clear header and footer fields
7495 \ifthenelse{\boolean{@bituftefloat@symmetric}}{
7496 {\fancyhead[LE]{\thepage\quad\textsl{\newlinetospace{\plainauthor}}}%
7497 \fancyhead[RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7498 {\fancyhead[RE,RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7499 % The `plain' page style is used on chapter opening pages.
7500 % In Tufte's /Beautiful Evidence/ he never puts page numbers at the
7501 % bottom of pages -- the folios are unexpressed.
7502 \fancypagestyle{plain}{
7503 \fancyhf{} % clear header and footer fields
7504 % Uncomment the following five lines of code if you want the opening page
7505 % of the chapter to express the folio in the lower outside corner.
7506 % \ifthenelse{\boolean{@bituftefloat@symmetric}}{
7507 % {\fancyfoot[LE,RO]{\thepage}}
7508 % {\fancyfoot[RE,RO]{\thepage}}
7509 }
7510 % The `empty' page style suppresses all headers and footers.
7511 % It's used on title pages and `intentionally blank' pages.
7512 \fancypagestyle{empty}{
7513 \fancyhf{} % clear header and footer fields

```



```

7514 }
7515 \def\morefloats{% provides a total of 52 floats
7516 \ifthenelse{\isundefined{\bx@S}}{%
7517 \bidituftefloatDebugInfoNL{Adding 34 more float slots.}
7518 \newinsert\bx@S
7519 \newinsert\bx@T
7520 \newinsert\bx@U
7521 \newinsert\bx@V
7522 \newinsert\bx@W
7523 \newinsert\bx@X
7524 \newinsert\bx@Y
7525 \newinsert\bx@Z
7526 \newinsert\bx@a
7527 \newinsert\bx@b
7528 \newinsert\bx@c
7529 \newinsert\bx@d
7530 \newinsert\bx@e
7531 \newinsert\bx@f
7532 \newinsert\bx@g
7533 \newinsert\bx@h
7534 \newinsert\bx@i
7535 \newinsert\bx@j
7536 \newinsert\bx@k
7537 \newinsert\bx@l
7538 \newinsert\bx@m
7539 \newinsert\bx@n
7540 \newinsert\bx@o
7541 \newinsert\bx@p
7542 \newinsert\bx@q
7543 \newinsert\bx@r
7544 \newinsert\bx@s
7545 \newinsert\bx@t
7546 \newinsert\bx@u
7547 \newinsert\bx@v
7548 \newinsert\bx@w
7549 \newinsert\bx@x
7550 \newinsert\bx@y
7551 \newinsert\bx@z
7552 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7553 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7554 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7555 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7556 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7557 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7558 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7559 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7560 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7561 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7562 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7563 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z}%
7564 }{% we've already added another 34 floats, so we'll add 26 more, but that's it!
7565 \ifthenelse{\isundefined{\bx@AA}}{%
7566 \bidituftefloatDebugInfoNL{Adding 26 more float slots.}
7567 \newinsert\bx@AA

```



```

7568 \newinsert\bx@BB
7569 \newinsert\bx@CC
7570 \newinsert\bx@DD
7571 \newinsert\bx@EE
7572 \newinsert\bx@FF
7573 \newinsert\bx@GG
7574 \newinsert\bx@HH
7575 \newinsert\bx@II
7576 \newinsert\bx@JJ
7577 \newinsert\bx@KK
7578 \newinsert\bx@LL
7579 \newinsert\bx@MM
7580 \newinsert\bx@NN
7581 \newinsert\bx@OO
7582 \newinsert\bx@PP
7583 \newinsert\bx@QQ
7584 \newinsert\bx@RR
7585 \newinsert\bx@SS
7586 \newinsert\bx@TT
7587 \newinsert\bx@UU
7588 \newinsert\bx@VV
7589 \newinsert\bx@WW
7590 \newinsert\bx@XX
7591 \newinsert\bx@YY
7592 \newinsert\bx@ZZ
7593 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7594 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7595 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7596 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7597 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7598 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7599 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7600 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7601 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7602 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7603 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7604 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z
7605 \@elt\bx@AA\@elt\bx@BB\@elt\bx@CC\@elt\bx@DD\@elt\bx@EE
7606 \@elt\bx@FF\@elt\bx@GG\@elt\bx@HH\@elt\bx@II\@elt\bx@JJ
7607 \@elt\bx@KK\@elt\bx@LL\@elt\bx@MM\@elt\bx@NN
7608 \@elt\bx@OO\@elt\bx@PP\@elt\bx@QQ\@elt\bx@RR
7609 \@elt\bx@SS\@elt\bx@TT\@elt\bx@UU\@elt\bx@VV
7610 \@elt\bx@WW\@elt\bx@XX\@elt\bx@YY\@elt\bx@ZZ}%
7611 }{%
7612 \biditytfloatError{You may only call \string\morefloats\space twice. See the\Message
7613 {There are already 78 float slots allocated. Try using \string\FloatBarrier\space on
7614 }%
7615 }%
7616 }
7617 \newboolean{@biditytfloat@packages@subfigure}
7618 \setboolean{@biditytfloat@packages@subfigure}{false}
7619 \AtBeginDocument{%
7620 \@ifpackageloaded{subfigure}
7621 {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{true}}

```



```

7622     {\GlobalSetBoolean{@bidituftefloat@packages@subfigure}{false}}%
7623 }
7624 \AtBeginDocument{%
7625   \@ifpackageloaded{float}{%
7626     % Save the redefined float environment (instead of the LaTeX float environment)
7627     \let\@bidituftefloat@orig@float\@float
7628     \let\@bidituftefloat@orig@endfloat\end@float
7629
7630     % Define Tuftian float styles (with the caption in the margin)
7631     \newcommand{\floatc@bidituftefloatplain}[2]{%
7632       \begin{lrbox}{\@bidituftefloat@caption@box}%
7633         \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{%
7634           \@bidituftefloat@caption@font{\@fs@cfont #1:} #2\par%
7635         }\end{minipage}%
7636       \end{lrbox}%
7637       \smash{\hspace{\@bidituftefloat@caption@fill}}\usebox{\@bidituftefloat@caption@box}}%
7638   }
7639   \newcommand{\fs@bidituftefloatplain}{%
7640     \def\@fs@cfont{\@bidituftefloat@caption@font}%
7641     \let\@fs@capt\floatc@bidituftefloatplain%
7642     \def\@fs@pre{%
7643       \def\@fs@post{%
7644         \def\@fs@mid{%
7645           \let\@fs@iftopcapt\iftrue%
7646         }
7647         \let\fs@bidituftefloatplaintop=\fs@bidituftefloatplain
7648         \let\floatc@bidituftefloatplaintop=\floatc@bidituftefloatplain
7649         \newcommand\floatc@bidituftefloatruled[2]{%
7650           {\@fs@cfont #1} #2\par%
7651         }
7652         \newcommand\fs@bidituftefloatruled{%
7653           \def\@fs@cfont{\@bidituftefloat@caption@font}%
7654           \let\@fs@capt\floatc@bidituftefloatplain%
7655           \def\@fs@pre{\hrule height.8pt depth0pt width\textwidth \kern2pt}%
7656           \def\@fs@post{\kern2pt\hrule width\textwidth\relax}%
7657           \def\@fs@mid{%
7658             \let\@fs@iftopcapt\iftrue%
7659           }
7660           \newcommand\fs@bidituftefloatboxed{%
7661             \def\@fs@cfont{}%
7662             \let\@fs@capt\floatc@bidituftefloatplain%
7663             \def\@fs@pre{%
7664               \setbox\@currbox\vbox{\hbadness10000
7665                 \moveleft3.4pt\vbox{\advance\hsize by6.8pt
7666                   \hrule \hbox to\hsize{\vrule\kern3pt
7667                     \vbox{\kern3pt\box\@currbox\kern3pt}\kern3pt\vrule}\hrule}}
7668             }%
7669             \def\@fs@mid{\kern2pt}%
7670             \def\@fs@post{}%
7671             \let\@fs@iftopcapt\iftrue%
7672           }
7673         }%
7674       }% Nothing to do
7675     }

```



```

7676 }
7677 \AtBeginDocument{%
7678   \@ifpackageloaded{algorithm}{%
7679     % Set the float style to the TufTian version
7680     \ifthenelse{\equal{\ALG@floatstyle}{plain}}\OR\equal{\ALG@floatstyle}{ruled}\OR\equal{\ALG@floatstyle}{list}{%
7681       \bidituftefloatInfoNL{Switching algorithm float style from \ALG@floatstyle\MessageBreak to \ALG@floatstyle}%
7682       \floatstyle{bidituftefloat\ALG@floatstyle}%
7683       \restylefloat{algorithm}%
7684     }{}%
7685   }{%
7686     % Nothing to do
7687   }
7688 }
7689 \PassOptionsToPackage{caption=false}{subfig}

```

## 54 File bidituftesidenote.sty

```

7690 \NeedsTeXFormat{LaTeX2e}
7691 \ProvidesPackage{biditytutesidenote}[2017/08/09 v0.4
7692 bidi implementation of tufte sidenote]
7693 \RequirePackage{xifthen}
7694 \RequirePackage{ragged2e}
7695 \RequirePackage{setspace}
7696 \RequirePackage{biditytools}
7697 \def\biditytutesidenotemarginpar{%
7698   \ifhmode
7699     \@bsphack
7700     \@floatpenalty -\@Mii
7701   \else
7702     \@floatpenalty-\@Miii
7703   \fi
7704   \ifinner
7705     \@parmoderr
7706     \@floatpenalty\z@
7707   \else
7708     \@next\@currbox\@freelist{}-{}%
7709     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7710     {\@floatpenalty\z@
7711       \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}}%
7712   \fi
7713   \@ifnextchar [%\@biditytutesidenotexmpar\@biditytutesidenoteympar]
7714 \long\def\@biditytutesidenotexmpar[#1]#2{%
7715   \@biditytutesidenotesavemarbox\@marbox{#1}%
7716   \@biditytutesidenotesavemarbox\@currbox{#2}%
7717   \@xympar}
7718 \long\def\@biditytutesidenoteympar#1{%
7719   \@biditytutesidenotesavemarbox\@marbox{#1}%
7720   \global\setbox\@currbox\copy\@marbox
7721   \@xympar}
7722 \long\def \@biditytutesidenotesavemarbox #1#2{%
7723   \global\setbox #1%
7724     \color@vbox
7725     \vtop{%
7726       \hsize\marginparwidth

```



```

7727         \@parboxrestore
7728         \@bituftesidenotemarginparreset
7729         #2%
7730         \@minipagefalse
7731         \outer@nobreak
7732     }%
7733     \color@endbox
7734 }
7735 \def \@bituftesidenotemarginparreset {%
7736     \reset@font
7737     \normalsize
7738     \@minipagetrue
7739     \everypar{\@minipagefalse\everypar{}\if@RTL@footnote\beginR\else\beginL\fi}%
7740 }
7741 \def\LTRbituftesidenotemarginpar{%
7742     \ifhmode
7743         \@bsphack
7744         \@floatpenalty -\@Mii
7745     \else
7746         \@floatpenalty-\@Miii
7747     \fi
7748     \ifinner
7749         \@parmoderr
7750         \@floatpenalty\z@
7751     \else
7752         \@next\@currbox\@freelist{}\{}%
7753         \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7754         {\@floatpenalty\z@
7755         \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7756     \fi
7757     \ifnextchar [\@LTRbituftesidenotexmpar\@LTRbituftesidenoteympar}
7758 \long\def\@LTRbituftesidenotexmpar[#1]#2{%
7759     \@LTRbituftesidenotesavemarbox\@marbox{#1}%
7760     \@LTRbituftesidenotesavemarbox\@currbox{#2}%
7761     \@xympar}
7762 \long\def\@LTRbituftesidenoteympar#1{%
7763     \@LTRbituftesidenotesavemarbox\@marbox{#1}%
7764     \global\setbox\@currbox\copy\@marbox
7765     \@xympar}
7766 \long\def \@LTRbituftesidenotesavemarbox #1#2{%
7767     \global\setbox #1%
7768     \color@vbox
7769     \vtop{%
7770         \hsize\marginparwidth
7771         \@parboxrestore
7772         \@LTRbituftesidenotemarginparreset
7773         #2%
7774         \@minipagefalse
7775         \outer@nobreak
7776     }%
7777     \color@endbox
7778 }
7779 \def \@LTRbituftesidenotemarginparreset {%
7780     \reset@font

```





```

7781         \normalsize
7782         \@minipagetrue
7783         \everypar{\@minipagefalse\everypar{}\beginL}%
7784 }
7785 \def\RTLbidityftesidenotemarginpar{%
7786   \ifhmode
7787     \@bsphack
7788     \@floatpenalty -\@Mii
7789   \else
7790     \@floatpenalty-\@Miii
7791   \fi
7792   \ifinner
7793     \@parmoderr
7794     \@floatpenalty\z@
7795   \else
7796     \@next\@currbox\@freelist{}\{}%
7797     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7798     {\@floatpenalty\z@
7799       \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7800   \fi
7801   \@ifnextchar [\@RTLbidityftesidenotexmpar\@RTLbidityftesidenoteympar}
7802 \long\def\@RTLbidityftesidenotexmpar[#1]#2{%
7803   \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
7804   \@RTLbidityftesidenotesavemarbox\@currbox{#2}%
7805   \@xympar}
7806 \long\def\@RTLbidityftesidenoteympar#1{%
7807   \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
7808   \global\setbox\@currbox\copy\@marbox
7809   \@xympar}
7810 \long\def \@RTLbidityftesidenotesavemarbox #1#2{%
7811   \global\setbox #1%
7812     \color@vbox
7813     \vtop{%
7814       \hsize\marginparwidth
7815       \@parboxrestore
7816       \@RTLbidityftesidenotemarginparreset
7817       #2%
7818       \@minipagefalse
7819       \outer@nobreak
7820     }%
7821   \color@endbox
7822 }
7823 \def \@RTLbidityftesidenotemarginparreset {%
7824   \reset@font
7825   \normalsize
7826   \@minipagetrue
7827   \everypar{\@minipagefalse\everypar{}\beginR}%
7828 }
7829 \newcommand*{\@bidityftesidenote@marginfont}{\normalfont\footnotesize}
7830 \newcommand*{\@bidityftesidenote@LTRmarginfont}{\normalfont\footnotesize}
7831 \newcommand*{\@bidityftesidenote@RTLmarginfont}{\normalfont\footnotesize}
7832 \newcommand*{\@bidityftesidenote@sidenote@font}{\@bidityftesidenote@marginfont}
7833 \newcommand*{\@bidityftesidenote@LTRsidenote@font}{\@bidityftesidenote@LTRmarginfont}
7834 \newcommand*{\@bidityftesidenote@RTLSidenote@font}{\@bidityftesidenote@RTLmarginfont}

```



```

7835 \newcommand*{\@bidityftesidenote@marginnote@font}{\@bidityftesidenote@marginfont}
7836 \newcommand*{\@bidityftesidenote@LTRmarginnote@font}{\@bidityftesidenote@LTRmarginfont}
7837 \newcommand*{\@bidityftesidenote@RTLmarginnote@font}{\@bidityftesidenote@RTLmarginfont}
7838 \newcommand*{\@bidityftesidenote@citation@font}{\@bidityftesidenote@marginfont}
7839 \newcommand*{\@bidityftesidenote@LTRcitation@font}{\@bidityftesidenote@LTRmarginfont}
7840 \newcommand*{\@bidityftesidenote@RTLcitation@font}{\@bidityftesidenote@RTLmarginfont}
7841 \newcommand*{\setsidenotefont}[1]{\renewcommand*{\@bidityftesidenote@sidenote@font}{#1}}
7842 \newcommand*{\setLTRsidenotefont}[1]{\renewcommand*{\@bidityftesidenote@LTRsidenote@font}{#1}}
7843 \newcommand*{\setRTLSidenotefont}[1]{\renewcommand*{\@bidityftesidenote@RTLSidenote@font}{#1}}
7844 \newcommand*{\setmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@marginnote@font}{#1}}
7845 \newcommand*{\setLTRmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@LTRmarginnote@font}{#1}}
7846 \newcommand*{\setRTLmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@RTLmarginnote@font}{#1}}
7847 \newcommand*{\setcitationfont}[1]{\renewcommand*{\@bidityftesidenote@citation@font}{#1}}
7848 \newcommand*{\setLTRcitationfont}[1]{\renewcommand*{\@bidityftesidenote@LTRcitation@font}{#1}}
7849 \newcommand*{\setRTLcitationfont}[1]{\renewcommand*{\@bidityftesidenote@RTLcitation@font}{#1}}
7850 \newcommand*{\@bidityftesidenote@sidenote@justification}{\@bidityftesidenote@justification@autodetect}
7851 \newcommand*{\@bidityftesidenote@marginnote@justification}{\@bidityftesidenote@justification@autodetect}
7852 \newcommand*{\@bidityftesidenote@citation@justification}{\@bidityftesidenote@justification@autodetect}
7853 \newcommand*{\@bidityftesidenote@justification@autodetect}{\justifying}%
7854 \newcommand{\@bidityftesidenote@margin@par}{%
7855   \setlength{\RaggedRightParindent}{0.5pc}%
7856   \setlength{\JustifyingParindent}{0.5pc}%
7857   \setlength{\parindent}{0.5pc}%
7858   \setlength{\parskip}{0pt}%
7859 }
7860 %%
7861 % Globally sets the length
7862 \ifundefined{gsetlength}{%
7863 \newcommand*{gsetlength}[2]{%
7864   \setlength{#1}{#2}%
7865   \global#1=#1\relax%
7866 }%
7867 }{}
7868
7869 %%
7870 % A function that removes leading and trailing spaces from the supplied macro.
7871 % Based on code written by Michael Downes (See ``Around the Bend'', #15.)
7872 % Executing \@bidityftesidenote@trim@spaces\xyzzy will result in the contents of \xyzzy
7873 % being trimmed of leading and trailing white space.
7874 \catcode\Q=3
7875 \def\@bidityftesidenote@trim@spaces#1{%
7876   % Use grouping to emulate a multi-token afterassignment queue
7877   \begingroup%
7878   % Put ``\toks 0 {' into the afterassignment queue
7879   \aftergroup\toks\aftergroup0\aftergroup{%
7880     % Apply \trimb to the replacement text of #1, adding a leading
7881     % \noexpand to prevent brace stripping and to serve another purpose
7882     % later.
7883     \expandafter\@bidityftesidenote@trim@b\expandafter\noexpand#1\Q}%
7884   % Transfer the trimmed text back into #1.
7885   \edef#1{\the\toks0}%
7886 }
7887 % \trimb removes a trailing space if present, then calls \@bidityftesidenote@trim@c to
7888 % clean up any leftover bizarre Qs, and trim a leading space. In

```



```

7889 % order for \trimc to work properly we need to put back a Q first.
7890 \def\@bidityftesidenote@trim@b#1 Q{\@bidityftesidenote@trim@c#1Q}
7891 % Execute \vfuzz assignment to remove leading space; the \noexpand
7892 % will now prevent unwanted expansion of a macro or other expandable
7893 % token at the beginning of the trimmed text. The \endgroup will feed
7894 % in the \aftergroup tokens after the \vfuzz assignment is completed.
7895 \def\@bidityftesidenote@trim@c#1Q#2{\afterassignment\endgroup \vfuzz\the\vfuzz#1}
7896 \catcode\Q=11
7897 %%
7898 % Citations should go in the margin as sidenotes
7899
7900 \RequirePackage{natbib}
7901 \RequirePackage{bibentry} % allows bibitems to be typeset outside thebibliography env
7902 % Redefine the \BR@b@bibitem command to fix a bug with bibentry+chicago style
7903 \renewcommand\BR@b@bibitem[2][]{%
7904   \ifthenelse{\isempty{#1}}{%
7905     {\BR@b@bibitem{#2}}%
7906     {\BR@b@bibitem{#1}{#2}}%
7907   \BR@b@bibitem{#2}%
7908 }
7909 \bidi@AtEndPreamble{\nobibliography*} % pre-loads the bibliography keys
7910 %%
7911 % Normal \cite behavior
7912 \newcounter{@bidityftesidenote@num@bibkeys}%
7913 \newcommand{\@bidityftesidenote@normal@cite}[2][Opt]{%
7914   % Snag the last bibentry in the list for later comparison
7915   \let\@temp@last@bibkey\@empty%
7916   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
7917   \sidenote[] [#1]{%
7918     % Loop through all the bibentries, separating them with semicolons and spaces
7919     \normalsize\normalfont\@bidityftesidenote@citation@font%
7920     \setcounter{@bidityftesidenote@num@bibkeys}{0}%
7921     \@for\@temp@bibkeyx:=#2\do{%
7922       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
7923         {\ifthenelse{\equal{value{@bidityftesidenote@num@bibkeys}}{0}}{\{and\ }}%
7924         \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7925         \bibentry{\@temp@bibkeyx}}%
7926         {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7927         \bibentry{\@temp@bibkeyx};\ }%
7928       \stepcounter{@bidityftesidenote@num@bibkeys}%
7929     }%
7930   }%
7931 }
7932 \newcommand{\@bidityftesidenote@LTrsidenote@normal@cite}[2][Opt]{%
7933   % Snag the last bibentry in the list for later comparison
7934   \let\@temp@last@bibkey\@empty%
7935   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
7936   \LTrsidenote[] [#1]{%
7937     % Loop through all the bibentries, separating them with semicolons and spaces
7938     \normalsize\normalfont\@bidityftesidenote@LTrcitation@font%
7939     \setcounter{@bidityftesidenote@num@bibkeys}{0}%
7940     \@for\@temp@bibkeyx:=#2\do{%
7941       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
7942         {\ifthenelse{\equal{value{@bidityftesidenote@num@bibkeys}}{0}}{\{and\ }}%

```



```

7943         \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7944         \bibentry{\@temp@bibkeyx}}%
7945         {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7946         \bibentry{\@temp@bibkeyx};\ }%
7947         \stepcounter{\@bidityftesidenote@num@bibkeys}%
7948     }%
7949 }%
7950 }
7951 \newcommand{\@bidityfteRTLsidenote@normal@cite}[2][Opt]{%
7952 % Snag the last bibentry in the list for later comparison
7953 \let\@temp@last@bibkey\@empty%
7954 \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
7955 \RTLsidenote[] [#1]{%
7956 % Loop through all the bibentries, separating them with semicolons and spaces
7957 \normalsize\normalfont\@bidityftesidenote@citation@font%
7958 \setcounter{\@bidityftesidenote@num@bibkeys}{0}%
7959 \@for\@temp@bibkeyx:=#2\do{%
7960 \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
7961 {\ifthenelse{\equal{\value{\@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
7962 \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7963 \bibentry{\@temp@bibkeyx}}%
7964 {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7965 \bibentry{\@temp@bibkeyx};\ }%
7966 \stepcounter{\@bidityftesidenote@num@bibkeys}%
7967 }%
7968 }%
7969 }
7970 %%
7971 % Macros for holding the list of cite keys until after the \sidenote
7972 \gdef\@bidityftesidenote@citations{}% list of cite keys
7973 \newcommand{\@bidityftesidenote@add@citation}[1]{\relax% adds a new bibkey to the list of cite
7974 \ifx\@bidityftesidenote@citations\@empty\else
7975 \g@addto@macro\@bidityftesidenote@citations{,}% separate by commas
7976 \fi
7977 \g@addto@macro\@bidityftesidenote@citations{#1}
7978 }
7979 \newcommand{\@bidityftesidenote@print@citations}[1][Opt]{% puts the citations in a margin no
7980 % Snag the last bibentry in the list for later comparison
7981 \let\@temp@last@bibkey\@empty%
7982 \@for\@temp@bibkey:=\@bidityftesidenote@citations\do{\let\@temp@last@bibkey\@temp@bibkey}%
7983 \marginpar{%
7984 \hbox{\vspace*{#1}%
7985 \@bidityftesidenote@citation@font%
7986 \@bidityftesidenote@citation@justification%
7987 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
7988 \vspace*{-1\baselineskip}}%
7989 % Loop through all the bibentries, separating them with semicolons and spaces
7990 \setcounter{\@bidityftesidenote@num@bibkeys}{0}%
7991 \@for\@temp@bibkeyx:=\@bidityftesidenote@citations\do{%
7992 \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
7993 {\ifthenelse{\equal{\value{\@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
7994 \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7995 \bibentry{\@temp@bibkeyx}}%
7996 {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey

```



```

7997         \bibentry{\@temp@bibkeyx};\ }%
7998         \stepcounter{@bidityftesidenote@num@bibkeys}%
7999     }%
8000 }%
8001 }
8002 %%
8003 % \cite behavior when executed within a sidenote
8004 \newcommand{\@bidityftesidenote@sidenote@citations}{}% contains list of \cites in sidenote
8005 \newcommand{\@bidityftesidenote@infootnote@cite}[1]{%
8006     \@bidityftesidenote@add@citation{#1}
8007 }
8008 %%
8009 % Set the default \cite style. This is set and reset by the \sidenote command.
8010 \let\cite\@bidityftesidenote@normal@cite
8011 \let\LTRcite\@bidityftelTRsidenote@normal@cite
8012 \let\RTLcite\@bidityfteRTLsidenote@normal@cite
8013 %%
8014 % Transform existing \footnotes into \sidenotes
8015 % Sidenote: ``Where God meant footnotes to go.''' ---bidityftesidenote
8016 \RequirePackage{optparams}% for our new sidenote commands -- provides multiple optional arguments
8017 \providecommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote@font}
8018 \renewcommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote@font}
8019 % Override footmisc's definition to set the sidenote marks (numbers) inside the
8020 % sidenote's text block.
8021 \bidi@patch@AfterPackage{bidi}{\long\def\@makefnmark{\@textsuperscript{\@bidityftesidenote@font\@bidityftesidenote@font}}}%
8022 % Set the in-text footnote mark in the same typeface as the body text itself.
8023 \bidi@patch@AfterPackage{bidi}{\def\@makefnmark{\hbox{\@textsuperscript{\normalfont\footnotemark}}}%
8024 \providecommand*\multiplefootnotemark}{3sp}
8025 \providecommand*\multfootsep}{,}%
8026 \bidi@patch@AfterPackage{bidi}{%
8027 \renewcommand{\@footnotemark}{%
8028     \leavevmode%
8029     \ifhmode%
8030         \edef\@x@sf{\the\spacefactor}%
8031         \@bidityftesidenote@check@multiple@sidenotes%
8032         \nobreak%
8033     \fi%
8034     \@makefnmark%
8035     \ifhmode\spacefactor\@x@sf\fi%
8036     \relax%
8037 }%
8038 }
8039 \newcommand{\@bidityftesidenote@check@multiple@sidenotes}{%
8040     \ifdim\lastkern=\multiplefootnotemark\relax%
8041         \edef\@x@sf{\the\spacefactor}%
8042         \unkern%
8043         \textsuperscript{\multfootsep}%
8044         \spacefactor\@x@sf\relax%
8045     \fi
8046 }
8047 \bidi@patch@AfterPackage{bidi}{%
8048 \renewcommand\@footnotetext[2][0pt]{%
8049     \bidityftesidenotemarginpar{%
8050         \hbox{} \vspace*{#1}%

```



```

8051 \def\baselinestretch {\setspace@singlespace}%
8052 \reset@font%
8053 \bidi@@footnotetext@font% \reset@font\footnotesize%
8054 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8055 \vspace*{-1\baselineskip}\noindent%
8056 \protected@edef\@currentlabel{%
8057     \csname p@footnote\endcsname\@thefnmark%
8058 }%
8059 \color@begingroup%
8060     \@makefntext{%
8061         \ignorespaces#2%
8062     }%
8063 \color@endgroup%
8064 }%
8065 }%
8066 \renewcommand\@LTRfootnotetext[2][0pt]{%
8067 \LTRbidityftesidenotemarginpar{%
8068     \hbox{}\vspace*{#1}%
8069     \def\baselinestretch {\setspace@singlespace}%
8070     \reset@font%
8071     \bidi@@LTRfootnotetext@font% \reset@font\footnotesize%
8072     \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8073     \vspace*{-1\baselineskip}\noindent%
8074     \protected@edef\@currentlabel{%
8075         \csname p@footnote\endcsname\@thefnmark%
8076     }%
8077     \color@begingroup%
8078         \@makefntext{%
8079             \ignorespaces#2%
8080         }%
8081     \color@endgroup%
8082 }%
8083 }%
8084 \renewcommand\@RTLfootnotetext[2][0pt]{%
8085 \RTLbidityftesidenotemarginpar{%
8086     \hbox{}\vspace*{#1}%
8087     \def\baselinestretch {\setspace@singlespace}%
8088     \reset@font%
8089     \bidi@@RTLfootnotetext@font% \reset@font\footnotesize%
8090     \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8091     \vspace*{-1\baselineskip}\noindent%
8092     \protected@edef\@currentlabel{%
8093         \csname p@footnote\endcsname\@thefnmark%
8094     }%
8095     \color@begingroup%
8096         \@makefntext{%
8097             \ignorespaces#2%
8098         }%
8099     \color@endgroup%
8100 }%
8101 }%
8102 }
8103 %
8104 % Define \sidenote command. Can handle \cite.

```



```

8105 \newlength{\@bidityftesidenote@sidenote@vertical@offset}
8106 \setlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}
8107 % #1 = footnote num, #2 = vertical offset, #3 = footnote text
8108 \long\def\@bidityftesidenote@sidenote[#1][#2]#3{%
8109   \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8110   \gdef\@bidityftesidenote@citations{}%           clear out any old citations
8111   \ifthenelse{\NOT\isempty{#2}}{%
8112     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8113   }{%
8114     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8115   }%
8116   \ifthenelse{\isempty{#1}}{%
8117     % no specific footnote number provided
8118     \stepcounter\@mpfn%
8119     \protected@xdef\@thefnmark{\thempfn}%
8120     \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8121   }{%
8122     % specific footnote number provided
8123     \begingroup%
8124       \csname c@\@mpfn\endcsname #1\relax%
8125       \unrestored@protected@xdef\@thefnmark{\thempfn}%
8126     \endgroup%
8127     \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8128   }%
8129   \@bidityftesidenote@print@citations%             print any citations
8130   \let\cite\@bidityftesidenote@normal@cite%        go back to using normal in-text \cite comm
8131   \let\LTRcite\@bidityfteLTRsidenote@normal@cite%  go back to using normal in-text \LTR
8132   \let\RTLcite\@bidityfteRTLsidenote@normal@cite%  go back to using normal in-text \RTL
8133   \unskip\ignorespaces%                            remove extra white space
8134   \kern-\multiplefootnotemarker%                   remove \kern left behind by sidenote
8135   \kern\multiplefootnotemarker\relax%              add new \kern here to replace the one we yanked
8136 }
8137 \long\def\@LTRbidityftesidenote@sidenote[#1][#2]#3{%
8138   \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8139   \gdef\@bidityftesidenote@citations{}%           clear out any old citations
8140   \ifthenelse{\NOT\isempty{#2}}{%
8141     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8142   }{%
8143     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8144   }%
8145   \ifthenelse{\isempty{#1}}{%
8146     % no specific footnote number provided
8147     \stepcounter\@mpfn%
8148     \protected@xdef\@thefnmark{\thempfn}%
8149     \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8150   }{%
8151     % specific footnote number provided
8152     \begingroup%
8153       \csname c@\@mpfn\endcsname #1\relax%
8154       \unrestored@protected@xdef\@thefnmark{\thempfn}%
8155     \endgroup%
8156     \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8157   }%
8158   \@bidityftesidenote@print@citations%             print any citations

```





```

8159 \let\cite\@bidityftesidenote@normal@cite%      go back to using normal in-text \cite comm
8160 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8161 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8162 \unskip\ignorespaces%                          remove extra white space
8163 \kern-\multiplefootnotemarker%                  remove \kern left behind by sidenote
8164 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8165 }
8166 \long\def\@RTLbidityftesidenote@sidenote[#1][#2]#3{%
8167 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8168 \gdef\@bidityftesidenote@citations{}%          clear out any old citations
8169 \ifthenelse{\NOT\isempty{#2}}{%
8170 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8171 }{%
8172 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8173 }%
8174 \ifthenelse{\isempty{#1}}{%
8175 % no specific footnote number provided
8176 \stepcounter\@mpfn%
8177 \protected@xdef\@thefnmark{\thempfn}%
8178 \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8179 }{%
8180 % specific footnote number provided
8181 \begingroup%
8182 \csname c\@mpfn\endcsname #1\relax%
8183 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8184 \endgroup%
8185 \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8186 }%
8187 \@bidityftesidenote@print@citations%            print any citations
8188 \let\cite\@bidityftesidenote@normal@cite%      go back to using normal in-text \cite comm
8189 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8190 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8191 \unskip\ignorespaces%                          remove extra white space
8192 \kern-\multiplefootnotemarker%                  remove \kern left behind by sidenote
8193 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8194 }
8195 \newcommand{\sidenote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}
8196 \newcommand{\LTRsidenote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}
8197 \newcommand{\RTLsidenote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}
8198 \bidi@patch@AfterPackage{bidi}{%
8199 \renewcommand{\footnote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}%
8200 \renewcommand{\LTRfootnote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}%
8201 \renewcommand{\RTLfootnote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}%
8202 }
8203 %%
8204 % Sidenote without the footnote mark
8205 \newcommand\marginnote[2][Opt]{%
8206 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8207 \gdef\@bidityftesidenote@citations{}%          clear out any old citations
8208 \bidityftesidenotemarginpar{\hbox{}vspace*{#1}\@bidityftesidenote@marginnote@font\@bidity
8209 \@bidityftesidenote@print@citations%            print any citations
8210 \let\cite\@bidityftesidenote@normal@cite%      go back to using normal in-text \cite comm
8211 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8212 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL

```





```

8213 }
8214 \newcommand\LTRmarginnote[2][Opt]{%
8215   \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8216   \gdef\@bidityftesidenote@citations{}%          clear out any old citations
8217   \LTRbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@LTRmarginnote@font\@
8218   \@bidityftesidenote@print@citations%            print any citations
8219   \let\cite\@bidityftesidenote@normal@cite%        go back to using normal in-text \cite comm
8220   \let\LTRcite\@bidityfteLTRsidenote@normal@cite%  go back to using normal in-text \LTR
8221   \let\RTLcite\@bidityfteRTLsidenote@normal@cite%  go back to using normal in-text \RTL
8222 }
8223 \newcommand\RTLmarginnote[2][Opt]{%
8224   \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8225   \gdef\@bidityftesidenote@citations{}%          clear out any old citations
8226   \RTLbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@RTLmarginnote@font\@
8227   \@bidityftesidenote@print@citations%            print any citations
8228   \let\cite\@bidityftesidenote@normal@cite%        go back to using normal in-text \cite comm
8229   \let\LTRcite\@bidityfteLTRsidenote@normal@cite%  go back to using normal in-text \LTR
8230   \let\RTLcite\@bidityfteRTLsidenote@normal@cite%  go back to using normal in-text \RTL
8231 }

```

## 55 File bidityftetoc.sty

```

8232 \NeedsTeXFormat{LaTeX2e}
8233 \ProvidesPackage{bidityftetoc}[2011/06/17 v0.1
8234 bidi implementation of tufte toc]
8235 \RequirePackage{titlesec,titletoc,xifthen,biditytools}
8236 \newcommand{\@bidityftetoc@pkgname}{bidityftetoc}
8237 \newcommand{\@bidityftetocError}[2]{\PackageError{\@bidityftetoc@pkgname}{#1}{#2}}
8238 %%
8239 % Turn off section numbering
8240 \setcounter{secnumdepth}{-1}
8241 \newboolean{@bidityftetoc@toc}
8242 \setboolean{@bidityftetoc@toc}{true}
8243 \DeclareOption{notoc}{\setboolean{@bidityftetoc@toc}{false}}
8244 \DeclareOption{toc}{\setboolean{@bidityftetoc@toc}{true}}
8245 \ProcessOptions
8246 %%
8247 % Make Tufte-style section headings and TOC formatting
8248 \bidi@patch@AfterPackage{bidi}{%
8249 \titleformat{\chapter}%
8250   [display]% shape
8251   {\relax\ifthenelse{\NOT\boolean{@bidityftefloat@symmetric}}{\begin{fullwidth}}{}}% format
8252   {\itshape\huge\thechapter}% label
8253   {Opt}% horizontal separation between label and title body
8254   {\huge\rmfamily\itshape}% before the title body
8255   [\ifthenelse{\NOT\boolean{@bidityftefloat@symmetric}}{\end{fullwidth}}{}}% after the title
8256 \titleformat{\section}%
8257   [hang]% shape
8258   {\normalfont\Large\itshape}% format applied to label+text
8259   {\thesection}% label
8260   {1em}% horizontal separation between label and title body
8261   {}% before the title body
8262   []% after the title body
8263 \titleformat{\subsection}%

```



```

8264 [hang]% shape
8265 {\normalfont\large\itshape}% format applied to label+text
8266 {\thesubsection}% label
8267 {1em}% horizontal separation between label and title body
8268 {}% before the title body
8269 []% after the title body
8270 \titleformat{\paragraph}%
8271 [runin]% shape
8272 {\normalfont\itshape}% format applied to label+text
8273 {\theparagraph}% label
8274 {1em}% horizontal separation between label and title body
8275 {}% before the title body
8276 []% after the title body
8277 \titlespacing*{\chapter}{0pt}{50pt}{40pt}
8278 \titlespacing*{\section}{0pt}{3.5ex plus 1ex minus .2ex}{2.3ex plus .2ex}
8279 \titlespacing*{\subsection}{0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus .2ex}
8280 }
8281 % Subsubsection and following section headings shouldn't be used.
8282 % See Bringhurst's _The Elements of Typography_, section 4.2.2.
8283 \renewcommand\subsubsection{%
8284   \biditytetocError{\noexpand\subsubsection is undefined by this class.%
8285     \MessageBreak See Robert Bringhurst's _The Elements of
8286     \MessageBreak Typographic Style_, section 4.2.2.
8287     \MessageBreak \noexpand\subsubsection was used}
8288     {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8289     \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8290     \MessageBreak related threads on Ask E.T. at http://www.edwardbiditytetoc.com/.}
8291 }
8292 \renewcommand\subparagraph{%
8293   \biditytetocError{\noexpand\subparagraph is undefined by this class.%
8294     \MessageBreak See Robert Bringhurst's _The Elements of
8295     \MessageBreak Typographic Style_, section 4.2.2.
8296     \MessageBreak \noexpand\subparagraph was used}
8297     {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8298     \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8299     \MessageBreak related threads on Ask E.T. at http://www.edwardbiditytetoc.com/.}
8300 }
8301 % Formatting for main TOC (printed in front matter)
8302 % {section} [left] {above} {before w/label} {before w/o label} {filler + page} [after]
8303 \ifthenelse{\boolean{@biditytetoc@toc}}{%
8304   \bidi@patch@AfterPackage{bidi}{%
8305     \titlecontents{part}% FIXME
8306     [0em] % distance from left margin
8307     {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global form
8308     {\contentslabel{2em}} % before w/label (label = ``II'')
8309     {} % before w/o label
8310     {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8311     [\end{fullwidth}] % after
8312     \titlecontents{chapter}%
8313     [0em] % distance from left margin
8314     {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global form
8315     {\hspace*{0em}\contentslabel{2em}} % before w/label (label = ``2'')
8316     {\hspace*{0em}} % before w/o label
8317     {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)

```



```

8318 [\end{fullwidth}] % after
8319 \titlecontents{section}% FIXME
8320 [0em] % distance from left margin
8321 {\vspace{0\baselineskip}\begin{fullwidth}\Large\rmfamily\itshape} % above (global format
8322 {\hspace*{2em}\contentslabel{2em}} % before w/label (label = ``2.6'')
8323 {\hspace*{2em}} % before w/o label
8324 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8325 [\end{fullwidth}] % after
8326 \titlecontents{subsection}% FIXME
8327 [0em] % distance from left margin
8328 {\vspace{0\baselineskip}\begin{fullwidth}\large\rmfamily\itshape} % above (global format
8329 {\hspace*{4em}\contentslabel{4em}} % before w/label (label = ``2.6.1'')
8330 {\hspace*{4em}} % before w/o label
8331 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8332 [\end{fullwidth}] % after
8333 \titlecontents{paragraph}% FIXME
8334 [0em] % distance from left margin
8335 {\vspace{0\baselineskip}\begin{fullwidth}\normalsize\rmfamily\itshape} % above (global f
8336 {\hspace*{6em}\contentslabel{2em}} % before w/label (label = ``2.6.0.0.1'')
8337 {\hspace*{6em}} % before w/o label
8338 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8339 [\end{fullwidth}] % after
8340 }%
8341 }{}
8342 %%
8343 % Format lists of figures/tables
8344 \renewcommand\listoffigures{%
8345 \ifundefined{chapter}%
8346 {\section*{\listfigurename}}%
8347 {\chapter*{\listfigurename}}%
8348 % \begin{fullwidth}%
8349 \@starttoc{lof}%
8350 % \end{fullwidth}%
8351 }
8352 \renewcommand\listoftables{%
8353 \ifundefined{chapter}%
8354 {\section*{\listtablename}}%
8355 {\chapter*{\listtablename}}%
8356 % \begin{fullwidth}%
8357 \@starttoc{lot}%
8358 % \end{fullwidth}%
8359 }
8360 \newcommand{\@biditytetoc@lof@line}[2]{%
8361 % #1 is the figure/table number and its caption text
8362 % #2 is the page number on which the figure/table appears
8363 \leftskip 0.0em
8364 \rightskip 0em
8365 \parfillskip 0em plus 1fil
8366 \parindent 0.0em
8367 \@afterindenttrue
8368 \interlinepenalty\@M
8369 \leavevmode
8370 \@tempdima 2.0em
8371 \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi

```



```

8372 \null\nobreak\hskip -\if@RTL\righskip\else\leftskip\fi
8373 {#1}\nobreak\qqquad\nobreak#2%
8374 \par%
8375 }
8376 \renewcommand*\l@figure{\@bidityftoc@lof@line}
8377 \let\l@table\l@figure

```

## 56 File `bidituftegeneralstructure.sty`

```

8378 \NeedsTeXFormat{LaTeX2e}
8379 \ProvidesPackage{bidituftegeneralstructure}[2011/06/18 v0.1
8380 bidi implementation of tufte general structure]
8381 \renewcommand\small{%
8382   \@setfontsize\small\@ixpt{12}%
8383   \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@
8384   \abovedisplayshortskip \z@ \@plus2\p@
8385   \belowdisplayshortskip 4\p@ \@plus2\p@ \@minus2\p@
8386   \def\@listi{\leftmargin\leftmargini
8387     \topsep 4\p@ \@plus2\p@ \@minus2\p@
8388     \parsep 2\p@ \@plus\p@ \@minus\p@
8389     \itemsep \parsep}%
8390   \belowdisplayskip \abovedisplayskip
8391 }
8392 \renewcommand\scriptsize{\@setfontsize\scriptsize\@viipt\@viipt}
8393 \renewcommand\tiny{\@setfontsize\tiny\@vpt\@vpt}
8394 \renewcommand\large{\@setfontsize\large\@xipt{15}}
8395 \renewcommand\Large{\@setfontsize\Large\@xiipt{16}}
8396 \renewcommand\LARGE{\@setfontsize\LARGE\@xivpt{18}}
8397 \renewcommand\huge{\@setfontsize\huge\@xxpt{30}}
8398 \renewcommand\Huge{\@setfontsize\Huge{24}{36}}
8399 \setlength\leftmargini {1pc}
8400 \setlength\leftmarginii {1pc}
8401 \setlength\leftmarginiii {1pc}
8402 \setlength\leftmarginiv {1pc}
8403 \setlength\leftmarginv {1pc}
8404 \setlength\leftmarginvi {1pc}
8405 \setlength\labelsep {.5pc}
8406 \setlength\labelwidth {\leftmargini}
8407 \addtolength\labelwidth{-\labelsep}
8408 \setlength{\parindent}{1.0pc}%
8409 \setlength{\parskip}{0pt}%
8410 \RequirePackage{ragged2e}
8411 \setlength{\RaggedRightRightskip}{\z@ plus 0.08\hsize}
8412 % Paragraph indentation and separation for normal text
8413 \newcommand{\@bidityftegeneralstructure@reset@par}{%
8414   \setlength{\RaggedRightParindent}{1.0pc}%
8415   \setlength{\JustifyingParindent}{1.0pc}%
8416   \setlength{\parindent}{1pc}%
8417   \setlength{\parskip}{0pt}%
8418 }
8419 \@bidityftegeneralstructure@reset@par
8420 % Require paralist package for tighter lists
8421 \RequirePackage{paralist}
8422 % Add rightmargin to compactenum

```



```

8423 \def\@compactenum@{%
8424   \expandafter\list\csname label\@enumctr\endcsname{%
8425     \usecounter{\@enumctr}%
8426     \rightmargin=2em% added this
8427     \parsep\plparsep
8428     \itemsep\plitemsep
8429     \topsep\pltopsep
8430     \partopsep\plpartopsep
8431     \def\makelabel##1{\hss\llap{##1}}}}
8432 %%
8433 % An environment for paragraph-style section
8434 \providecommand\newthought[1]{%
8435   \addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}%
8436   \noindent\textbf{#1}%
8437 }
8438 %%
8439 % Redefine the display environments (quote, quotation, etc.)
8440 \renewenvironment{verse}
8441   {\let\\ \@centercr
8442    \list{}\{\itemsep      \z@
8443              \itemindent  -1pc%
8444              \listparindent\itemindent
8445              \rightmargin \leftmargin
8446              \advance\leftmargin 1pc}%
8447    \small%
8448    \item\relax}
8449   {\endlist}
8450 \renewenvironment{quotation}
8451   {\list{}\{\listparindent 1pc%
8452              \itemindent    \listparindent
8453              \rightmargin    \leftmargin
8454              \parsep        \z@ \@plus\p@}%
8455    \small%
8456    \item\relax\noindent\ignorespaces}
8457   {\endlist}
8458 \renewenvironment{quote}
8459   {\list{}\{\rightmargin\leftmargin}%
8460    \small%
8461    \item\relax}
8462   {\endlist}
8463 % Italicize description run-in headings (instead of the default bold)
8464 \renewcommand*\descriptionlabel[1]{\hspace\labelsep\normalfont\em #1}
8465 %%
8466 % Redefine \bibsection to not mark the running heads.
8467 % (Code modified from natbib.sty.)
8468 \@ifundefined{chapter}%
8469   {\renewcommand\bibsection{\section*{\refname}}}
8470   {\@ifundefined{NAT@sectionbib}%
8471     {\renewcommand\bibsection{\chapter{\bibname}}}
8472     {\renewcommand\bibsection{\section*{\bibname}}}}
8473 \RequirePackage{multicol}
8474 \renewenvironment{theindex}{%
8475   \@ifundefined{chapter}%
8476     {\section*{\indexname}}%

```



```

8477     {\chapter{\indexname}}%
8478 \begin{fullwidth}%
8479 \small%
8480 \parskip0pt%
8481 \parindent0pt%
8482 \let\item\@idxitem%
8483 \begin{multicols}{3}%
8484 }{%
8485 \end{multicols}%
8486 \end{fullwidth}%
8487 }
8488 \AtBeginDocument{%
8489 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi2em}%
8490 \renewcommand\subitem{\par\hangindent \if@RTL-\fi3em\hspace*{1em}}%
8491 \renewcommand\subsubitem{\par\hangindent \if@RTL-\fi4em\hspace*{2em}}%
8492 \renewcommand\indexspace{\par\addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}\relax}%
8493 \newcommand{\lettergroup}[1]{}% swallow the letter heading in the index

```

## 57 File `bidituftehyperref.sty`

```

8494 \NeedsTeXFormat{LaTeX2e}
8495 \ProvidesPackage{bidituftehyperref}[2011/06/18 v0.1
8496 bidi implementation of tufte hyperref]
8497 %%
8498 % Color
8499 \RequirePackage[usenames,dvipsnames,svgnames]{xcolor}%
8500 \newboolean{@bidituftehyperref@loadhyper}
8501 \setboolean{@bidituftehyperref@loadhyper}{true}
8502 \DeclareOption{hyper}{\setboolean{@bidituftehyperref@loadhyper}{true}}
8503 \DeclareOption{nohyper}{\setboolean{@bidituftehyperref@loadhyper}{false}}
8504 \ProcessOptions
8505 %% Loads the hyperref package and sets some default options.
8506 \newcommand{\bidituftehyperrefLoadHyperref}{%
8507 \RequirePackage[hyperfootnotes=false,colorlinks=true]{hyperref}
8508 \hypersetup{%
8509     bookmarksdepth = section,
8510     citecolor = DarkGreen,
8511     linkcolor = DarkBlue,
8512 %    pagecolor = DarkBlue,
8513     urlcolor = DarkGreen,
8514 }%
8515 }
8516 \ifthenelse{\boolean{@bidituftehyperref@loadhyper}}{%
8517 \bidituftehyperrefLoadHyperref%
8518 }{% hyperfootnotes override our modifications to the \footnote* and \@footnote* commands.
8519 \PassOptionsToPackage{hyperfootnotes=false}{hyperref}
8520 }

```

## 58 File `bidituftetitle.sty`

```

8521 \NeedsTeXFormat{LaTeX2e}
8522 \ProvidesPackage{bidituftetitle}[2011/06/18 v0.1
8523 bidi implementation of tufte title]
8524 \RequirePackage{biditools}

```



```

8525 %%
8526 % `titlepage' option -- creates a full title page with \maketitle
8527 \newboolean{@bidityttitle@titlepage}
8528 \DeclareOption{titlepage}{\setboolean{@bidityttitle@titlepage}{true}}
8529 \DeclareOption{notitlepage}{\setboolean{@bidityttitle@titlepage}{false}}
8530 % Default `book' and `handout' options
8531 \@ifclassloaded{book}{%
8532 \ExecuteOptions{titlepage}}{%
8533 \@ifclassloaded{article}{%
8534 \ExecuteOptions{notitlepage}}%
8535 {}}
8536 \ProcessOptions
8537 %%
8538 % Modified \title, \author, and \date commands. These store the
8539 % (footnote-less) values in \plaintitle, \plainauthor, and \thedata, respectively.
8540 \newcommand{\plaintitle}{}% plain-text-only title
8541 \newcommand{\plainauthor}{}% plain-text-only author
8542 \newcommand{\plainpublisher}{}% plain-text-only publisher
8543 \newcommand{\thanklesstitle}{}% full title text minus \thanks{}
8544 \newcommand{\thanklessauthor}{}% full author text minus \thanks{}
8545 \newcommand{\thanklesspublisher}{}% full publisher minus \thanks{}
8546 \newcommand{\@publisher}{}% full publisher with \thanks{}
8547 \newcommand{\thedata}{\today}
8548 \bidi@patch@AfterPackage{bidi}{%
8549 \renewcommand{\thanks}[1]{\footnote{#1}}
8550 \renewcommand{\LTRthanks}[1]{\LTRfootnote{#1}}
8551 \renewcommand{\RTLthanks}[1]{\RTLfootnote{#1}}
8552 }
8553 \renewcommand{\title}[2][]{%
8554 \gdef{@title{#2}}%
8555 \begingroup%
8556 % TODO store contents of \thanks command
8557 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8558 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8559 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8560 \protected@xdef\thanklesstitle{#2}%
8561 \endgroup%
8562 \ifthenelse{\isempty{#1}}{%
8563 {\renewcommand{\plaintitle}{\thanklesstitle}}% use thankless title
8564 {\renewcommand{\plaintitle}{#1}}% use provided plain-text title
8565 \@ifundefined{hypersetup}%
8566 {}% hyperref is not loaded; do nothing
8567 {\hypersetup{pdftitle={\plaintitle}}}% set the PDF metadata title
8568 }
8569 \let\@author\@empty% suppress default latex.ltx ``no author'' warning
8570 \renewcommand{\author}[2][]{%
8571 \ifthenelse{\isempty{#2}}{\gdef{@author{#2}}}%
8572 \begingroup%
8573 % TODO store contents of \thanks command
8574 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8575 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8576 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8577 \protected@xdef\thanklessauthor{#2}%
8578 \endgroup%

```



```

8579 \ifthenelse{\isempty{#1}}%
8580   {\renewcommand{\plainauthor}{\thanklessauthor}}% use thankless author
8581   {\renewcommand{\plainauthor}{#1}}% use provided plain-text author
8582 \@ifundefined{hypersetup}%
8583   {}% hyperref is not loaded; do nothing
8584   {\hypersetup{pdfauthor={\plainauthor}}}% set the PDF metadata author
8585 }
8586 \renewcommand{\date}[1]{%
8587   \gdef\@date{#1}%
8588   \begingroup%
8589     % TODO store contents of \thanks command
8590     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8591     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8592     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8593     \protected@xdef\thedata{#1}%
8594   \endgroup%
8595 }
8596 %%
8597 % Provides a \publisher command to set the publisher
8598 \newcommand{\publisher}[2] [] {%
8599   \gdef\@publisher{#2}%
8600   \begingroup%
8601     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8602     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8603     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8604     \protected@xdef\thanklesspublisher{#2}%
8605   \endgroup%
8606   \ifthenelse{\isempty{#1}}
8607     {\renewcommand{\plainpublisher}{\thanklesspublisher}}% use thankless publisher
8608     {\renewcommand{\plainpublisher}{#1}}% use provided plain-text publisher
8609 }
8610 %%
8611 % Produces a full title page
8612 \newcommand{\maketitlepage}[0] {%
8613   \cleardoublepage%
8614   {%
8615     \bfseries%
8616     \begin{fullwidth}%
8617       \fontsize{18}{20}\selectfont\par\noindent\thanklessauthor%
8618       \vspace{11.5pc}%
8619       \fontsize{36}{40}\selectfont\par\noindent\thanklesstitle%
8620       \vfill%
8621       \fontsize{14}{16}\selectfont\par\noindent\thanklesspublisher%
8622     \end{fullwidth}%
8623   }
8624   \thispagestyle{empty}%
8625   \clearpage%
8626 }
8627 %%
8628 % Title block
8629 \bidi@AfterEndPreamble{%
8630 \renewcommand{\maketitle}{%
8631   \newpage%
8632   \global\@topnum\z@% prevent floats from being placed at the top of the page

```





```

8633 \beginngroup%
8634 \setlength{\parindent}{0pt}%
8635 \setlength{\parskip}{4pt}%
8636 \let\@title\@empty%
8637 \let\@author\@empty%
8638 \let\@date\@empty%
8639 \gdef\@title{\LARGE\itshape\@title\par}%
8640 \gdef\@author{\Large\itshape\@author\par}%
8641 \gdef\@date{\Large\itshape\@date\par}%
8642 \@title%
8643 \@author%
8644 \@date%
8645 \endgroup%
8646 \thispagestyle{plain}% suppress the running head
8647 }%
8648 }
8649 %%
8650 % Title page (if the `titlepage' option was passed to the bidentuftetitle-handout
8651 % class.)
8652 \bidi@AfterEndPreamble{%
8653 \ifthenelse{\boolean{@bidentuftetitle@titlepage}}
8654 {\renewcommand{\maketitle}{\maketitlepage}}
8655 {}
8656 }
8657 %%
8658 % When \cleardoublepage is called, produce a blank (empty) page -- i.e.,
8659 % without headers and footers
8660 \def\cleardoublepage{\clearpage\if@twoside\ifodd\c@page\else
8661 \hbox{}
8662 %\vspace*{\fill}
8663 %\begin{center}
8664 % This page intentionally contains only this sentence.
8665 %\end{center}
8666 %\vspace{\fill}
8667 \thispagestyle{empty}
8668 \newpage
8669 \if@twocolumn\hbox{}\newpage\fi\fi\fi}

```

## 59 File bidentufte-handout.cls

```

8670 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8671 \ProvidesClass{bidentufte-handout}[2011/06/18 v0.1 bidentufte-handout class]
8672 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
8673 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftefloat}}
8674 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftetoc}}
8675 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftehyperref}}
8676 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftetitle}}
8677 \ProcessOptions\relax
8678 \LoadClass{article}
8679 \RequirePackage{bidentuftefloat}
8680 \RequirePackage{bidentuftesidenote}
8681 \RequirePackage{bidentuftetoc}
8682 \RequirePackage{bidentuftegeneralstructure}
8683 \RequirePackage{bidentuftehyperref}

```



```

8684 \RequirePackage{bidiutftetitle}
8685 \renewenvironment{abstract}
8686   {\begin{quotation}}
8687   {\end{quotation}}
8688 \AtBeginDocument{%
8689 \IfFileExists{bidiutfte-handout.cfg}
8690   {\input{bidiutfte-handout.cfg}
8691     \ClassInfo{bidiutfte-handout}{Loading bidiutfte-handout configuration file \@gobble}}
8692   }%
8693 }

```

## 60 File bidiutfte-book.cls

```

8694 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8695 \ProvidesClass{bidiutfte-book}[2011/06/18 v0.1 bidiutfte-book class]
8696 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
8697 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidiutftefloat}}
8698 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidiutftetoc}}
8699 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidiutftehyperref}}
8700 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidiutftetitle}}
8701 \ProcessOptions\relax
8702 \LoadClass{book}
8703 \RequirePackage{bidiutftefloat}
8704 \RequirePackage{bidiutftesidenote}
8705 \RequirePackage{bidiutftetoc}
8706 \RequirePackage{bidiutftegeneralstructure}
8707 \RequirePackage{bidiutftehyperref}
8708 \RequirePackage{bidiutftetitle}
8709 %%
8710 % Set up any book-specific stuff now
8711 %%
8712 % The front matter in Tufte's /Beautiful Evidence/ contains everything up
8713 % to the opening page of Chapter 1. The running heads, when they appear,
8714 % contain only the (arabic) page number in the outside corner.
8715 %\newif\if@mainmatter \@mainmattertrue
8716 \renewcommand\frontmatter{%
8717   \cleardoublepage%
8718   \@mainmatterfalse%
8719   \pagenumbering{arabic}%
8720   %\pagestyle{plain}%
8721   \fancyhf{}%
8722   \ifthenelse{\boolean{@bidiutftefloat@twoside}}{%
8723     {\fancyhead[LE,RO]{\thepage}}%
8724     {\fancyhead[RE,RO]{\thepage}}%
8725   }
8726 %%
8727 % The main matter in Tufte's /Beautiful Evidence/ doesn't restart the page
8728 % numbering---it continues where it left off in the front matter.
8729 \renewcommand\mainmatter{%
8730   \cleardoublepage%
8731   \@mainmattertrue%
8732   \fancyhf{}%
8733   \ifthenelse{\boolean{@bidiutftefloat@twoside}}{%
8734     {\renewcommand{\chaptermark}[1]{\markboth{##1}{}}}

```



```

8735 \fancyhead[LE]{\thepage\quad\smallcaps{\newlinetospace{\plaintitle}}}% book title
8736 \fancyhead[RO]{\smallcaps{\newlinetospace{\leftmark}}\quad\thepage}% chapter title
8737 {\fancyhead[RE,RO]{\smallcaps{\newlinetospace{\plaintitle}}\quad\thepage}}% book title
8738 }
8739 %%
8740 % The back matter contains appendices, indices, glossaries, endnotes,
8741 % bibliographies, list of contributors, illustration credits, etc.
8742 \renewcommand\backmatter{%
8743 \if@openright%
8744 \cleardoublepage%
8745 \else%
8746 \clearpage%
8747 \fi%
8748 \@mainmatterfalse%
8749 }
8750 %%
8751 % Only show the chapter titles in the table of contents
8752 \setcounter{tocdepth}{0}
8753 \AtBeginDocument{%
8754 \IfFileExists{biditufte-book.cfg}
8755 {\input{biditufte-book.cfg}
8756 \ClassInfo{biditufte-book}{Loading biditufte-book configuration file \@gobble}}
8757 {}%
8758 }

```

## 61 File bidipoem.sty

```

8759 \NeedsTeXFormat{LaTeX2e}
8760 \ProvidesPackage{bidipoem}%
8761 [2019/03/03 v1.0 Environments for typesetting Persian traditional and modern poems]
8762
8763 % Usage:
8764 %
8765 % \Setversedim #1#2 % define the layout (within a group):
8766 % #1 = length of both half-verses
8767 % #2 = separation distance = length of a connection, if present
8768 % Variant:
8769 % \Setversedim #1[#2]#3 % for half-verses of unequal length
8770 % #1 = length of first (=right) half-verse
8771 % #2 = length of second (=left) half-verse
8772 % #3 = separation distance = length of a connection, if present
8773 %
8774 % \traditionalhalfverses #1#2 % typeset two separated half-verses
8775 % #1 = text of first (=right) half-verse
8776 % #2 = text of second (=left) half-verse
8777 % Variant:
8778 % \traditionalhalfverses #1[#2]#3 % typeset two connected half-verses
8779 % #1 = text of first (=right) half-verse
8780 % #2 = text of connection
8781 % #3 = text of second (=left) half-verse
8782 %
8783 % Alternative (if preferred):
8784 %
8785 % \traditionalconnverses #1#2#3 % = \traditionalhalfverses #1[#2]#3

```



```

8786
8787
8788 \newcommand*{\bidipoem@spreadbox}[2]{\hbox to #1{#2}}
8789
8790 % define the layout, verses will be centered
8791
8792 \newdimen \bidipoem@hvlen \newdimen \bidipoem@hvsep
8793 \newdimen \bidipoem@hvind \newdimen \bidipoem@@hvlen
8794
8795 \newcommand*{\Setversedim}[2]{% set lengths of half-verse, [separation]
8796 \bidipoem@hvind \textwidth
8797 \bidipoem@hvlen #1\relax \advance \bidipoem@hvind -\bidipoem@hvlen
8798 \ifx [#2\def \bidipoem@next {\bidipoem@set@verseI []}\else
8799 \bidipoem@@hvlen \bidipoem@hvlen \def \bidipoem@next {\bidipoem@set@@verse {#2}}\fi \bidipoe
8800
8801 \def \bidipoem@set@verseI [#1]{% optional parameter
8802 \bidipoem@@hvlen #1\relax \bidipoem@set@@verse }
8803
8804 \newcommand*{\bidipoem@set@@verse}[1]{% separation
8805 \advance \bidipoem@hvind -\bidipoem@@hvlen \bidipoem@hvsep #1\relax
8806 \advance \bidipoem@hvind -\bidipoem@hvsep \divide \bidipoem@hvind 2 }
8807
8808 \newcommand*{\traditionalconnverses}[3]{% first half-verse, connection, second half-verse
8809 \ifdim Opt > \bidipoem@hvind %
8810 \bidipoem@spreadbox \bidipoem@hvlen {#1}\\ \hfill % first block
8811 \else
8812 \noindent \hspace \bidipoem@hvind \relax \bidipoem@spreadbox \bidipoem@hvlen {#1}\fi
8813 \bidipoem@spreadbox \bidipoem@hvsep {#2}% separator
8814 \bidipoem@spreadbox \bidipoem@@hvlen {#3}% second block
8815 \par }
8816
8817 % macro for two half verses
8818 \newcommand*{\traditionalhalfverses}[2]{% optional parameter?
8819 \ifx [#2\def \bidipoem@half@verses@next{\bidipoem@half@verses {#1}[]}%
8820 \else\def \bidipoem@half@verses@next{\bidipoem@half@verses {#1}[\hfill]{#2}}\fi%
8821 \bidipoem@half@verses@next}
8822
8823 \def \bidipoem@half@verses #1[#2]#3{% first[mid]second
8824 \traditionalconnverses {#1}{#2}{#3}}
8825
8826
8827 {\catcode\^^M=\active % these lines must end with %
8828 \gdef\traditionalpoem@obeylines{\catcode\^^M\active \let^^M\traditionalpoem@par}%
8829 \global\let^^M\traditionalpoem@par} % this is in case ^^M appears in a \write
8830 {\catcode\^^M=\active % these lines must end with %
8831 \gdef\modernpoem@obeylines{\catcode\^^M\active \let^^M\modernpoem@par}%
8832 \global\let^^M\modernpoem@par} % this is in case ^^M appears in a \write
8833 \def\poemcolsepskip{.1\versewidth plus .1\versewidth minus .05\versewidth}
8834 \def\poemmarginskip{1em plus 1fil minus 1em}
8835 \def\poemextrabaseskip{0\baselineskip}
8836 \def\poemskip{\medskip}
8837 \newcommand{\bidipoem@openbox}{\leavevmode
8838 \hbox to.77778em{%
8839 \hfil\vrule

```



```

8840 \vbox to.675em{\hrule width.6em\vfil\hrule}%
8841 \vrule\hfil}}
8842 \def\poemblocksep{\quad\hbox{\bidipoem@openbox}}
8843 \newdimen\versewidth
8844 \newtoks\bidipoem@p@ftn
8845 \def\poem@verse#1{%
8846 \ifdim\wd#1>\new@poem@width
8847 \xdef\new@poem@width{\the\wd#1}%
8848 \ifdim\new@poem@width>\poem@width
8849 \xdef\poem@width{\new@poem@width}%
8850 \global\let\poem@needrun\relax
8851 \fi
8852 \fi
8853 \hbox to\poem@width{\unhbox#1}%
8854 \global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn%
8855 }
8856 \def\poem@linebegin{\vadjust{}\hskip\@flushglue\hskip\poemmargin\skip\relax}
8857 \def\poem@lineend{\nobreak\hskip\poemmargin\skip\hskip\@flushglue\vadjust{}}
8858 \def\poem@lineversesep{%
8859 \nobreak
8860 \hskip\z@ plus 1filll%
8861 \penalty600%
8862 \hskip\poemcolsepskip
8863 \hskip\z@ plus -2filll%
8864 \vadjust{}}%
8865 \nobreak
8866 \hskip\z@ plus 1filll%
8867 }
8868 \def\poem@lineparsebegin{%
8869 \halign\bgroup
8870 \global\setbox\verse@i=\hbox{%
8871 \let\@footnotetext\bidipoem@p@ftntext%
8872 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
8873 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
8874 \let\@xfootnotenext\bidipoem@p@xftntext%
8875 \let\@xfootnote\bidipoem@p@xfootnote%
8876 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
8877 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
8878 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
8879 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
8880 \ignorespaces##\unskip}&&
8881 \global\setbox\verse@ii=\hbox{%
8882 \let\@footnotetext\bidipoem@p@ftntext%
8883 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
8884 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
8885 \let\@xfootnotenext\bidipoem@p@xftntext%
8886 \let\@xfootnote\bidipoem@p@xfootnote%
8887 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
8888 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
8889 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
8890 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
8891 \ignorespaces##\unskip}
8892 \cr
8893 }

```



```

8894 \def\poem@lineparseend{%
8895 \crr\egroup
8896 \vskip-\baselineskip
8897 }
8898 \def\traditionalpoem@cr{%
8899 \cr\poem@line
8900 }
8901 \newbox\verse@i
8902 \newbox\verse@ii
8903 \newif\ifpoem@started
8904
8905 \def\poem@line{%
8906 \poem@lineparseend
8907 \ifdim\wd\verse@i>\z@\global\poem@startedtrue\fi
8908 \ifdim\wd\verse@ii>\z@\global\poem@startedtrue\fi
8909 \ifpoem@started
8910 \ifdim\wd\verse@ii>\z@\else
8911 \nopagebreak[3]
8912 \fi
8913 \leavevmode
8914 \poem@linebegin
8915 \poem@verse\verse@i
8916 \ifdim\wd\verse@ii>\z@
8917 \poem@lineversesep
8918 \poem@verse\verse@ii
8919 \fi
8920 \poem@lineend
8921 % \nopagebreak
8922 \par
8923 \vskip\poemextrabaselineskip
8924 \fi
8925 \poem@lineparsebegin
8926 }
8927 \def\@traditionalpoem{%
8928 \stepcounter{poem@no}
8929 \ifnum\max@poem@no<\number\c@poem@no%
8930 \xdef\poem@width{\z@}%
8931 \else
8932 \xdef\poem@width{\poem@prop{poem@width}}%
8933 \fi
8934 \xdef\new@poem@width{\z@}%
8935 \global\versewidth=\poem@width
8936 \poemskip\par
8937 \begingroup
8938 \tabskip=\z@
8939 \parskip=\z@
8940 \parindent=\z@
8941 \parfillskip=\z@
8942 \rightskip=\z@
8943 \leftskip=\z@
8944 \widowpenalty=10000% No break between verses of the same line.
8945 \clubpenalty=10000% Same as above. Not really needed.
8946 \def\newblock{\hfil\poemblocksep\hfil\null}%
8947 \def\traditionalpoem@par{\traditionalpoem@cr}% Redefine \par for possible \obeylines

```



```

8948 \def\{\global\poem@startedtrue\traditionalpoem@cr}%
8949 \global\poem@startedfalse
8950 \csname poem@obeylines\endcsname
8951 \let\poem@obeylines\relax
8952 \poem@lineparsebegin
8953 }
8954 \def\@endtraditionalpoem{%
8955 \cr
8956 \ifdim\wd\verse@i>\z@\poem@line\else\ifdim\wd\verse@ii>\z@\poem@line\else
8957 \noalign{%
8958 \skip0=\poemextrabaselineskip
8959 \vskip-\skip0
8960 \vskip-\baselineskip
8961 }%
8962 \fi\fi
8963 \poem@lineparseend
8964 \endgroup
8965 \par
8966 \vskip\baselineskip
8967 \poemskip
8968 \ifdim\new@poem@width<\poem@width
8969 \global\let\poem@needrun\relax
8970 \fi
8971 \poem@write@aux{\poem@width\romannumeral\c@poem@no}{\new@poem@width}%
8972 \ifx\AtEndDocument\undefined\poem@finish\fi
8973 \@endparenv
8974 }
8975
8976
8977 \long\def\bidipoem@p@ftntext#1{%
8978 \edef\@temp{x\the\bidipoem@p@ftn\noexpand\footnotetext[\the\csname c@\mpfn\endcsname]}}%
8979 \global\bidipoem@p@ftn\expandafter{\@temp{x#1}}}%
8980 \long\def\bidipoem@p@LTRftntext#1{%
8981 \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\mpfn\endcsname]}}%
8982 \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
8983 \long\def\bidipoem@p@RTLftntext#1{%
8984 \edef\@tempxii{\the\bidipoem@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\mpfn\endcsname]}}%
8985 \global\bidipoem@p@ftn\expandafter{\@tempxii{#1}}}%
8986
8987 \long\def\bidipoem@p@xftntext[#1]#2{%
8988 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\footnotetext[#1]{#2}}}
8989
8990 \long\def\bidipoem@p@xLTRftntext[#1]#2{%
8991 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\LTRfootnotetext[#1]{#2}}}
8992
8993 \long\def\bidipoem@p@xRTLftntext[#1]#2{%
8994 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\RTLfootnotetext[#1]{#2}}}
8995
8996 \def\bidipoem@p@xfootnote[#1]{%
8997 \begingroup
8998 \csname c@\mpfn\endcsname #1\relax
8999 \unrestored@protected@xdef\@thefnmark{\thempfn}%
9000 \endgroup
9001 \@footnotemark\bidipoem@p@xftntext[#1]}

```



```

9002
9003 \def\bidipoem@p@xLTRfootnote[#1]{%
9004     \beginngroup
9005         \csname c@ \@mpfn\endcsname #1\relax
9006         \unrestored@protected@xdef\@thefnmark{\thempfn}%
9007     \endgroup
9008     \@footnotemark\bidipoem@p@xLTRftntext[#1]}
9009
9010 \def\bidipoem@p@xRTLfootnote[#1]{%
9011     \beginngroup
9012         \csname c@ \@mpfn\endcsname #1\relax
9013         \unrestored@protected@xdef\@thefnmark{\thempfn}%
9014     \endgroup
9015     \@footnotemark\bidipoem@p@xRTLftntext[#1]}
9016
9017
9018
9019 \newenvironment{traditionalpoem}{\@traditionalpoem}{\@endtraditionalpoem}
9020 \expandafter\def\csname traditionalpoem*\endcsname{\let\poem@obeylines=\traditionalpoem@obey}
9021 \expandafter\def\csname endtraditionalpoem*\endcsname{\endtraditionalpoem}
9022 \def\poem@finish{%
9023     \poem@write@aux{max@poem@no}{\number\c@poem@no}%
9024     \ifx\poem@needrun\relax
9025 \PackageWarning{bidipoem}{Unjustified poem.  Rerun XeLaTeX to get poem right}%
9026 \global\let\poem@needrun\undefined
9027 \fi
9028 }
9029 \ifx\AtEndDocument\undefined\else\AtEndDocument\poem@finish\fi
9030 \newcounter{poem@no}\setcounter{poem@no}{\z@}
9031 \ifx\max@poem@no\undefined
9032     \def\max@poem@no{0}%
9033 \fi
9034 \newcommand{\poem@prop}[1]{\@nameuse{#1\@romannumeral\c@poem@no}}
9035 \newcommand{\poem@write@aux}[2]{%
9036     \def\@x{\immediate\write\@auxout{\global\noexpand\@namedef{#1}{#2}}}%
9037     \@x
9038 }
9039 \def\@modernpoem{%
9040 \par
9041 \beginngroup
9042 \parskip=\z@
9043 \parindent=\z@
9044 \def\[{ \@settab\@tabplus\ignorespaces}%
9045 \def\]\{ \@tabminus\ignorespaces}%
9046 \def\newblock{\poemblocksep}%
9047 \let\newpoem@tabcr\@tabcr
9048 \def\modernpoem@par{% Redefine \par for possible \obeylines
9049     \ifpoem@started\else
9050         \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9051             \@stopfield
9052         \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9053         \@contfield
9054     \fi
9055     \fi

```





```

9056 \ifpoem@started\newpoem@tabcr\fi}%
9057 \def\@tabcr{\global\poem@startedtrue\newpoem@tabcr}%
9058 \global\poem@startedfalse
9059 \csname poem@obeylines\endcsname
9060 \let\poem@obeylines\relax
9061 \begin{tabbing}%
9062 }
9063 \def\@endmodernpoem{%
9064 \global\poem@startedfalse
9065 \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9066 \stopfield
9067 \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9068 \contfield
9069 \fi
9070 \ifpoem@started\else\let\@stopline\@stopfield\fi
9071 \end{tabbing}%
9072 \endgroup
9073 \par
9074 \if@nparlist \else
9075 \ifdim\lastskip >\z@
9076 \tempkipa\lastskip \vskip -\lastskip
9077 \advance\tempkipa\parskip \advance\tempkipa -\outerparskip
9078 \vskip\tempkipa
9079 \fi
9080 \endparenv
9081 \fi
9082 }
9083 \newenvironment{modernpoem}{\@modernpoem}{\@endmodernpoem}
9084 \expandafter\def\csname modernpoem*\endcsname{\let\poem@obeylines=\modernpoem@obeylines\mode
9085 \expandafter\def\csname endmodernpoem*\endcsname{\endmodernpoem}
9086 \gdef\@startfield{%
9087 \global\setbox\@curfield\hbox\bgroup%
9088 \let\@footnotetext\bidipoem@p@ftntext%
9089 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9090 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9091 \let\@xfootnotenext\bidipoem@p@xftntext%
9092 \let\@xfootnote\bidipoem@p@xfootnote%
9093 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9094 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9095 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9096 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9097 \color@begingroup}
9098 \gdef\@stopfield{%
9099 \color@endgroup\egroup\global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn}
9100 \gdef\@contfield{%
9101 \global\setbox\@curfield\hbox\bgroup%
9102 \let\@footnotetext\bidipoem@p@ftntext%
9103 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9104 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9105 \let\@xfootnotenext\bidipoem@p@xftntext%
9106 \let\@xfootnote\bidipoem@p@xfootnote%
9107 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9108 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9109 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%

```



```

9110 \let\xRTLfootnote\bidipoem@p\xRTLfootnote%
9111 \color@begingroup\unhbox\@curfield}

```

## 62 File boek3-xetex-bidi.def

```

9112 \ProvidesFile{boek3-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek3 class for XeT
9113 \renewenvironment{theindex}{%
9114   \if@twocolumn
9115     \@restonecolfalse
9116   \else
9117     \@restonecoltrue
9118   \fi
9119   \columnseprule \z@
9120   \columnsep 35\p@
9121   \twocolumn[\@makeschapterhead{\indexname}]%
9122   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}}%
9123   \thispagestyle{plain}\parindent\z@
9124   \parskip\z@ \@plus .3\p@\relax
9125   \let\item\@idxitem
9126 }{%
9127   \if@restonecol\onecolumn\else\clearpage\fi}
9128 \renewcommand*{\head@style}{%
9129   \interlinepenalty \@M
9130   \hyphenpenalty=\@M \exhyphenpenalty=\@M
9131   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9132 \renewcommand*{\regtocline}[3]{%
9133   \ifnum #1>\c@tocdepth
9134   \else
9135     \vskip\z@\@plus.2\p@
9136     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9137     \if@RTL\rightskip\else\leftskip\fi\unitindent
9138     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
9139     \parfillskip\z@
9140     \@tempdima\unitindent
9141     \parindent\z@
9142     \leavevmode
9143     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9144     \hskip 1em \nobreak{\slshape #3}\par
9145   }%
9146 \fi}
9147 \if@oldtoc
9148 \renewcommand*{\l@part}[2]{%
9149   \ifnum \c@tocdepth >-2\relax
9150     \addpenalty{-\@highpenalty}%
9151     \addvspace{2.25em \@plus\p@}%
9152     \begingroup
9153       \setlength{\@tempdima}{3em}%
9154       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9155       \parfillskip -\@pnumwidth
9156       {\leavevmode
9157         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9158         \nobreak
9159         \global\@nobreaktrue
9160         \everypar{\global\@nobreakfalse\everypar{}}}%

```



```

9161 \endgroup
9162 \fi}
9163 \else
9164 \renewcommand*\l@part{%
9165 \ifnum \c@tocdepth >-2\relax
9166 \addpenalty{-\@highpenalty}%
9167 \addvspace{2.25em \@plus \p@}%
9168 \@regtocline{0}%
9169 \fi}
9170 \fi
9171 \if@oldtoc
9172 \renewcommand*\l@chapter[2]{%
9173 \addpenalty{-\@highpenalty}%
9174 \vskip 1.0em \@plus\p@
9175 \setlength\@tempdima{1.5em}%
9176 \begingroup
9177 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9178 \parfillskip -\@pnumwidth
9179 \leavevmode \bfseries
9180 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9181 \hskip -\if@RTL\rightskip\else\leftskip\fi
9182 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9183 \penalty\@highpenalty
9184 \endgroup}
9185 \else
9186 \renewcommand*\l@chapter{\@regtocline{0}}
9187 \fi
9188 \renewenvironment{abstract}{%
9189 \titlepage
9190 \null\vfil
9191 \section*{\SectFont \abstractname}
9192 \noindent\ignorespaces}
9193 {\par\vfil\null\endtitlepage}
9194 \renewenvironment{thebibliography}[1]
9195 {\chapter*{\bibname}%
9196 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9197 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9198 \bidi@thebibliography@font@hook%
9199 \list{\@biblabel{\@arabic\c@enumiv}}%
9200 {\settowidth\labelwidth{\@biblabel{#1}}%
9201 \leftmargin\labelwidth
9202 \advance\leftmargin\labelsep
9203 \@openbib@code
9204 \usecounter{enumiv}%
9205 \let\p@enumiv\@empty
9206 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9207 \sloppy\clubpenalty4000\widowpenalty4000%
9208 \sfcode\.\@m}
9209 {\def\@noitemerr
9210 {\@latex@warning{Empty `thebibliography' environment}}}%
9211 \endlist}
9212 \renewcommand*\left@footnoterule{%
9213 \kern-3\p@
9214 \kern.5\baselineskip

```



```

9215 \hrule\@width\unitindent
9216 \kern.4\baselineskip
9217 }
9218 \renewcommand*\right@footnoterule{%
9219 \kern-3\p@
9220 \kern.5\baselineskip
9221 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9222 \kern.4\baselineskip}
9223 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9224 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9225 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9226 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9227 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9228 \renewcommand*\theequation{%
9229 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9230 \renewcommand*\thefigure{%
9231 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9232 \renewcommand*\thetable{%
9233 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
9234 \renewcommand*\maketitle{%
9235 \begin{titlepage}%
9236 \let\footnotesize\small
9237 \let\right@footnoterule\relax
9238 \let\left@footnoterule\relax
9239 \let\textwidth\footnoterule\relax
9240 \let \footnote \thanks
9241 \long\def\@makefnmark##1{\parindent\z@
9242 \def\labelitemi{\textendash}\@revlabeltrue
9243 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9244 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9245 \if@compatibility\setcounter{page}{0}\fi
9246 \null\vfil
9247 \vskip 60\p@
9248 \begin{center}%
9249 \TitleFont
9250 {\LARGE \def\\{\penalty -\@M}
9251 \if@allcaps
9252 \expandafter\uc@nothanks\@title\thanks\relax
9253 \else
9254 \@title
9255 \fi\par}%
9256 \vskip 3em%
9257 {\large
9258 \lineskip .75em \parindent\z@
9259 \begin{tabular}[t]{c}%
9260 \if@allcaps
9261 \expandafter\uc@authornothanks\@author\and\relax
9262 \else
9263 \@author
9264 \fi
9265 \end{tabular}\par}%
9266 \vskip 1.5em%
9267 {\large
9268 \if@allcaps

```



```

9269         \uppercase\expandafter{\@date}%
9270         \else
9271         \@date
9272         \fi\par}%
9273     \end{center}\par
9274     \@thanks
9275     \vfil\null
9276 \end{titlepage}%
9277 \setcounter{footnote}{0}%
9278 \global\let\thanks\relax
9279 \global\let\maketitle\relax
9280 \global\let\@thanks\@empty
9281 \global\let\@author\@empty
9282 \global\let\@title\@empty
9283 \global\let\@date\@empty
9284 \global\let\title\relax
9285 \global\let\author\relax
9286 \global\let\date\relax
9287 \global\let\and\relax
9288 }

```

## 63 File boek-xetex-bidi.def

```

9289 \ProvidesFile{boek-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek class for XeTeX]
9290 \renewenvironment{theindex}{%
9291     \if@twocolumn
9292         \@restonecolfalse
9293     \else
9294         \@restonecoltrue
9295     \fi
9296     \columnseprule \z@
9297     \columnsep 35\p@
9298     \twocolumn[\@makeschapterhead{\indexname}]%
9299     \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}}%
9300     \thispagestyle{plain}\parindent\z@
9301     \parskip\z@ \@plus .3\p@\relax
9302     \let\item\@idxitem
9303 }{%
9304     \if@restonecol\onecolumn\else\clearpage\fi}
9305 \renewcommand*{\head@style}{%
9306     \interlinepenalty \@M
9307     \hyphenpenalty=\@M \exhyphenpenalty=\@M
9308     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9309 \renewcommand*{\@regtocline}[3]{%
9310     \ifnum #1>\c@tocdepth
9311     \else
9312         \vskip\z@\@plus.2\p@
9313         {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9314         \if@RTL\rightskip\else\leftskip\fi\unitindent
9315         \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
9316         \parfillskip\z@
9317         \@tempdima\unitindent
9318         \parindent\z@
9319         \leavevmode

```



```

9320     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9321     \hskip 1em \nobreak{\slshape #3}\par
9322     }%
9323   \fi}
9324 \if@oldtoc
9325 \renewcommand*\l@part[2]{%
9326   \ifnum \c@tocdepth >-2\relax
9327     \addpenalty{-\@highpenalty}%
9328     \addvspace{2.25em \@plus\p@}%
9329     \begingroup
9330       \setlength\@tempdima{3em}%
9331       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9332       \parfillskip -\@pnumwidth
9333       {\leavevmode
9334         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9335         \nobreak
9336         \global\@nobreaktrue
9337         \everypar{\global\@nobreakfalse\everypar{}}%
9338       \endgroup
9339     \fi}
9340 \else
9341   \renewcommand*\l@part{%
9342     \ifnum \c@tocdepth >-2\relax
9343       \addpenalty{-\@highpenalty}%
9344       \addvspace{2.25em \@plus\p@}%
9345       \@regtocline{0}%
9346     \fi}
9347 \fi
9348 \if@oldtoc
9349 \renewcommand*\l@chapter[2]{%
9350   \addpenalty{-\@highpenalty}%
9351   \vskip 1.0em \@plus\p@
9352   \setlength\@tempdima{1.5em}%
9353   \begingroup
9354     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9355     \parfillskip -\@pnumwidth
9356     \leavevmode \bfseries
9357     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9358     \hskip -\if@RTL\rightskip\else\leftskip\fi
9359     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9360     \penalty\@highpenalty
9361   \endgroup}
9362 \else
9363   \renewcommand*\l@chapter{\@regtocline{0}}
9364 \fi
9365 \renewcommand*\left@footnoterule{%
9366   \kern-3\p@
9367   \kern.5\baselineskip
9368   \hrule\@width\unitindent
9369   \kern.4\baselineskip
9370 }
9371 \renewcommand*\right@footnoterule{%
9372   \kern-3\p@
9373   \kern.5\baselineskip

```



```

9374 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9375 \kern.4\baselineskip}
9376 \renewenvironment{abstract}{%
9377     \titlepage
9378     \null\vfil
9379     \section*{\SectFont \abstractname}
9380     \noindent\ignorespaces}
9381 {\par\vfil\null\endtitlepage}
9382 \renewenvironment{thebibliography}[1]
9383 {\chapter*{\bibname}%
9384     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9385     \ifRTL\if@LTRbibitems@RTLfalse\else\fi\else\if@RTLbibitems@RTLtrue\else\fi\fi
9386     \bidi@thebibliography@font@hook%
9387     \list{\@biblabel{\@arabic\c@enumiv}}%
9388         {\settowidth\labelwidth{\@biblabel{#1}}%
9389         \leftmargin\labelwidth
9390         \advance\leftmargin\labelsep
9391         \@openbib@code
9392         \usecounter{enumiv}%
9393         \let\p@enumiv\@empty
9394         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9395     \sloppy\clubpenalty4000\widowpenalty4000%
9396     \sfcode`. \m}
9397 {\def\@noitemerr
9398 {\@latex@warning{Empty `thebibliography' environment}}%
9399 \endlist}
9400 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9401 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9402 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9403 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9404 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9405 \renewcommand*\theequation{%
9406 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9407 \renewcommand*\thefigure{%
9408 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9409 \renewcommand*\thetable{%
9410 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
9411 \renewcommand*\maketitle{%
9412 \begin{titlepage}%
9413 \let\footnotesize\small
9414 \let\right@footnoterule\relax
9415 \let\left@footnoterule\relax
9416 \let\textwidth\footnoterule\relax
9417 \let \footnote \thanks
9418 \long\def\@makefnmark##1{\parindent\z@
9419 \def\labelitemi{\textendash}\@revlabeltrue
9420 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9421 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9422 \if@compatibility\setcounter{page}{0}\fi
9423 \null\vfil
9424 \vskip 60\p@
9425 \begin{center}%
9426 \TitleFont
9427 {\LARGE \def\\{\penalty -\m}

```



```

9428     \if@allcaps
9429         \expandafter\uc@nothanks\@title\thanks\relax
9430     \else
9431         \@title
9432     \fi\par}%
9433 \vskip 3em%
9434 {\large
9435     \lineskip .75em \parindent\z@
9436     \begin{tabular}[t]{c}%
9437         \if@allcaps
9438             \expandafter\uc@authornothanks\@author\and\relax
9439         \else
9440             \@author
9441         \fi
9442     \end{tabular}\par}%
9443 \vskip 1.5em%
9444 {\large
9445     \if@allcaps
9446         \uppercase\expandafter{\@date}%
9447     \else
9448         \@date
9449     \fi\par}%
9450 \end{center}\par
9451 \@thanks
9452 \vfil\null
9453 \end{titlepage}%
9454 \setcounter{footnote}{0}%
9455 \global\let\thanks\relax
9456 \global\let\maketitle\relax
9457 \global\let\@thanks\@empty
9458 \global\let\@author\@empty
9459 \global\let\@title\@empty
9460 \global\let\@date\@empty
9461 \global\let\title\relax
9462 \global\let\author\relax
9463 \global\let\date\relax
9464 \global\let\and\relax
9465 }

```

## 64 File bookest-xetex-bidi.def

```

9466 \ProvidesFile{bookest-xetex-bidi.def}[2010/07/25 v0.4 bidi adaptations for bookest class for
9467 \def\@makechapterhead#1{%
9468     \vspace*{20\p@}
9469     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9470         \ifnum \c@secnumdepth >\m@ne
9471             \if@mainmatter
9472                 {\colorA\huge\scshape \@chapapp\space \thechapter}
9473             \par\nobreak
9474             \vskip 10\p@
9475         \fi
9476     \fi
9477     \interlinepenalty\@M
9478     {\colorB\hrule}

```





```

9479 \vskip 15\p@
9480 \if@RTL\begin{flushleft}\else\begin{flushright}\fi
9481 {\colorA\Huge \bfseries #1}\par\nobreak
9482 \if@RTL\end{flushleft}\else\end{flushright}\fi
9483 \vskip 5\p@
9484 {\colorB\hrule}
9485 \vskip 30\p@
9486 }}
9487 \def\@makeschapterhead#1{%
9488 \vspace*{20\p@}
9489 {\parindent \z@ \raggedright \normalfont
9490 {\colorB\hrule}
9491 \vskip 15\p@
9492 \begin{center}
9493 {\colorA\Huge \bfseries #1}\par\nobreak
9494 \end{center}
9495 \vskip 5\p@
9496 {\colorB\hrule}
9497 \vskip 30\p@
9498 }}

```

## 65 File book-xetex-bidi.def

```

9499 \ProvidesFile{book-xetex-bidi.def}[2017/06/09 v1.0 bidi adaptations for standard book class]
9500 \renewenvironment{theindex}
9501 {\if@twocolumn
9502 \@restonecolfalse
9503 \else
9504 \@restonecoltrue
9505 \fi
9506 \columnseprule \z@
9507 \columnsep 35\p@
9508 \twocolumn[\@makeschapterhead{\indexname}]%
9509 \@mkboth{\MakeUppercase\indexname}%
9510 {\MakeUppercase\indexname}%
9511 \thispagestyle{plain}\parindent\z@
9512 \parskip\z@ \@plus .3\p@\relax
9513 \let\item\@idxitem}
9514 {\if@restonecol\onecolumn\else\clearpage\fi}
9515 \@ifclassloaded{bookest}{\}%
9516 \if@titlepage
9517 \renewcommand\maketitle{\begin{titlepage}%
9518 \let\footnotesize\small
9519 \let\right@footnoterule\relax
9520 \let\left@footnoterule\relax
9521 \let\textwidth@footnoterule\relax
9522 \let\footnote\thanks
9523 \let\LTRfootnote\LTRthanks
9524 \let\RTLfootnote\RTLthanks
9525 \null\vfil
9526 \vskip 60\p@
9527 \begin{center}%
9528 {\LARGE \@title \par}%
9529 \vskip 3em%

```



```

9530     {\large
9531       \lineskip .75em%
9532       \begin{tabular}[t]{c}%
9533         \@author
9534       \end{tabular}\par}%
9535       \vskip 1.5em%
9536     {\large \@date \par}%           % Set date in \large size.
9537 \end{center}\par
9538 \@thanks
9539 \vfil\null
9540 \end{titlepage}%
9541 \setcounter{footnote}{0}%
9542 \global\let\thanks\relax
9543 \global\let\LTRthanks\relax
9544 \global\let\RTLthanks\relax
9545 \global\let\maketitle\relax
9546 \global\let\@thanks\@empty
9547 \global\let\@author\@empty
9548 \global\let\@date\@empty
9549 \global\let\@title\@empty
9550 \global\let\title\relax
9551 \global\let\author\relax
9552 \global\let\date\relax
9553 \global\let\and\relax
9554 }
9555 \else
9556 \renewcommand\maketitle{\par
9557   \begingroup
9558     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
9559     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
9560     \long\def\@makefntext##1{\parindent 1em\noindent
9561       \hb@xt@1.8em{%
9562         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
9563     \if@twocolumn
9564       \ifnum \col@number=\@ne
9565         \@maketitle
9566       \else
9567         \twocolumn[\@maketitle]%
9568       \fi
9569     \else
9570       \newpage
9571       \global\@topnum\z@   % Prevents figures from going at top of page.
9572       \@maketitle
9573     \fi
9574     \thispagestyle{plain}\@thanks
9575   \endgroup
9576   \setcounter{footnote}{0}%
9577   \global\let\thanks\relax
9578   \global\let\LTRthanks\relax
9579   \global\let\RTLthanks\relax
9580   \global\let\maketitle\relax
9581   \global\let\@maketitle\relax
9582   \global\let\@thanks\@empty
9583   \global\let\@author\@empty

```



```

9584 \global\let\@date\@empty
9585 \global\let\@title\@empty
9586 \global\let\title\relax
9587 \global\let\author\relax
9588 \global\let\date\relax
9589 \global\let\and\relax
9590 }
9591 \def\@maketitle{%
9592 \newpage
9593 \null
9594 \vskip 2em%
9595 \begin{center}%
9596 \let \footnote \thanks
9597 \let \LTRfootnote \LTRthanks
9598 \let \RTLfootnote \RTLthanks
9599 {\LARGE \@title \par}%
9600 \vskip 1.5em%
9601 {\large
9602 \lineskip .5em%
9603 \begin{tabular}[t]{c}%
9604 \@author
9605 \end{tabular}\par}%
9606 \vskip 1em%
9607 {\large \@date}%
9608 \end{center}%
9609 \par
9610 \vskip 1.5em}
9611 \fi}
9612 \renewcommand*\l@part[2]{%
9613 \ifnum \c@tocdepth >-2\relax
9614 \addpenalty{-\@highpenalty}%
9615 \addvspace{2.25em \@plus\p@}%
9616 \setlength\@tempdima{3em}%
9617 \begingroup
9618 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9619 \parfillskip -\@pnumwidth
9620 {\leavevmode
9621 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9622 \nobreak
9623 \global\@nobreaktrue
9624 \everypar{\global\@nobreakfalse\everypar{}}%
9625 \endgroup
9626 \fi}
9627 \renewcommand*\l@chapter[2]{%
9628 \ifnum \c@tocdepth >\m@ne
9629 \addpenalty{-\@highpenalty}%
9630 \vskip 1.0em \@plus\p@
9631 \setlength\@tempdima{1.5em}%
9632 \begingroup
9633 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9634 \parfillskip -\@pnumwidth
9635 \leavevmode \bfseries
9636 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9637 \hskip -\if@RTL\rightskip\else\leftskip\fi

```



```

9638      #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9639      \penalty\@highpenalty
9640      \endgroup
9641      \fi}
9642 \renewcommand\left@footnoterule{%
9643   \kern-3\p@
9644   \hrule\@width.4\columnwidth
9645   \kern2.6\p@}
9646 \renewcommand\right@footnoterule{%
9647   \kern-3\p@
9648   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
9649   \kern2.6\p@}
9650 \renewcommand\theequation
9651   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
9652 \renewcommand \thefigure
9653   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
9654 \renewcommand \thetable
9655   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
9656 \renewcommand \thechapter {\@arabic\c@chapter}
9657 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
9658 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
9659 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
9660 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
9661 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
9662 \def\@makechapterhead#1{%
9663   \vspace*{50\p@}%
9664   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9665     \ifnum \c@secnumdepth >\m@ne
9666       \if@mainmatter
9667         \huge\bfseries \@chapapp\space \thechapter
9668         \par\nobreak
9669         \vskip 20\p@
9670       \fi
9671       \fi
9672       \interlinepenalty\@M
9673       \Huge \bfseries #1\par\nobreak
9674       \vskip 40\p@
9675     }}
9676 \def\@makeschapterhead#1{%
9677   \vspace*{50\p@}%
9678   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
9679     \normalfont
9680     \interlinepenalty\@M
9681     \Huge \bfseries #1\par\nobreak
9682     \vskip 40\p@
9683   }}
9684 \renewcommand\backmatter{%
9685   \if@openright
9686     \cleardoublepage
9687   \else
9688     \clearpage
9689   \fi
9690   \@mainmatterfalse}
9691 \renewenvironment{thebibliography}[1]

```



```

9692     {\chapter*{\bibname}%
9693       \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9694       \ifRTL\ifLTRbibitems\RTLfalse\else\fi\else\ifRTLbibitems\RTLtrue\else\fi\fi
9695       \bidi@thebibliography@font@hook%
9696       \list{\@biblabel{\@arabic\c@enumiv}}%
9697         {\settowidth\labelwidth{\@biblabel{#1}}%
9698          \leftmargin\labelwidth
9699          \advance\leftmargin\labelsep
9700          \@openbib@code
9701          \usecounter{enumiv}%
9702          \let\p@enumiv\@empty
9703          \renewcommand\theenumiv{\@arabic\c@enumiv}}%
9704       \sloppy
9705       \clubpenalty4000
9706       \@clubpenalty \clubpenalty
9707       \widowpenalty4000%
9708       \sfcode\.\@m}
9709   {\def\@noitemerr
9710     {\@latex@warning{Empty `thebibliography' environment}}}%
9711   \endlist}

```

## 66 File breqn-xetex-bidi.def

```

9712 \ProvidesFile{breqn-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for breqn package for X
9713 \def\@dmath[#1]{\ifRTL\RTLfalse\fi%
9714 \everydisplay\expandafter{\the\everydisplay \display@setup}%
9715 \ifnoskipsec \leavevmode \fi
9716 \ifinlabel \leavevmode \global\@inlabelfalse \fi
9717 \if\eq@group\else\eq@prelim\fi
9718 \setkeys{breqn}{#1}%
9719 \the\eqstyle
9720 \eq@setnumber
9721 \begingroup
9722 \eq@setup@a
9723 \eq@startup
9724 }
9725 \def\@dgroup[#1]{\ifRTL\RTLfalse\fi%
9726 \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
9727 \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x
9728 \global\let\GRP@label\@empty
9729 \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@
9730 \global\grp@linewidth\z@\global\grp@wdNum\z@
9731 \global\let\grp@eqs@numbered\@False
9732 \global\let\grp@aligned\@True
9733 \global\let\grp@shiftnumber\@False
9734 \eq@prelim
9735 \setkeys{breqn}{#1}%
9736 \if\grp@hasNumber \grp@setnumber \fi
9737 }
9738 \def\@dseries[#1]{\ifRTL\RTLfalse\fi%
9739 \let\display@setup\dseries@display@setup
9740 % Question: should this be the default for dseries???
9741 \global\eq@wdCond\z@
9742 \@dmath[layout={M},#1]%

```



```

9743 \mathsurround\z@\@@math \penalty\@Mi
9744 \let\endmath\ends@math
9745 \def\premath{%
9746   \ifdim\lastskip<.3em \unskip
9747   \else\ifnum\lastpenalty<\@M \dquad\fi\fi
9748 }%
9749 \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%
9750 \ignorespaces
9751 }
9752 \def\eqnumform#1{\if@nonlatin\beginR\@RTLtrue\fi(#1\@@italiccorr)\if@nonlatin\endR\fi}
9753 \renewenvironment{dsuspend}{%
9754   \global\setbox\EQ@box\vbox\bgroup\if@nonlatin\@RTLtrue\fi \@parboxrestore
9755   \parshape 1 \displayindent \displaywidth\relax
9756   \hsize=\columnwidth \noindent\ignorespaces
9757 }{%
9758   \par\egroup
9759   \global\setbox\GRP@box\vbox{%
9760     \hbox{\copy\EQ@box\top{\unvbox\EQ@box}}%
9761     \unvbox\GRP@box
9762   }%
9763   \global\GRP@queue\@xp{\the\GRP@queue
9764     \@elt{\let\eq@isIntertext\@True}%
9765   }%
9766 }

```

## 67 File cals-xetex-bidi.def

```

9767 \ProvidesFile{cals-xetex-bidi.def}[2016/11/30 v0.4 bidi adaptations for cals package for XeTeX]
9768 \renewcommand\cals@setup@alignment[1]{%
9769   \if c#1\relax \cals@vfillAdd \leftskip \cals@vfillAdd \rightskip \fi
9770   \if l#1\relax \cals@vfillDrop\leftskip \cals@vfillDrop\rightskip \fi
9771   \if r#1\relax \cals@vfillAdd \leftskip \cals@vfillDrop\rightskip \fi
9772 }
9773 \renewcommand\cals@table@alignment{\if@RTLtab r\else l\fi}
9774 \renewenvironment{calstable}[1][\cals@table@alignment]{%
9775   \if@RTLtab\cals@activate@rtl\fi
9776   \let\cals@thead@tokens=\relax
9777   \let\cals@tfoot@tokens=\relax
9778   \let\cals@tbody@tokens=\relax
9779   \cals@tfoot@height=0pt \relax
9780   \let\cals@last@context=n%
9781   \let\cals@current@context=b%
9782   \parindent=0pt \relax%
9783   \cals@setup@alignment{#1}%
9784   \cals@setpadding{Ag}\cals@setcellprevdepth{Al}\cals@set@tohsize%
9785   %% Alignment inside is independent on center/flushright outside
9786   \parfillskip=0pt plus1fil\relax
9787   \let\cals@borderL=\relax
9788   \let\cals@borderR=\relax
9789   \let\cals@borderT=\relax
9790   \let\cals@borderB=\relax
9791   \setbox\cals@backup@row=\box\voidb@x\relax
9792   \cals@AtBeginTable
9793 }{% End of the table

```



```

9794 \cals@tfoot@tokens\lastrule\cals@AtEndTable}
9795 \renewcommand\alignL{%
9796 \if@RTLtab
9797   \cals@vfillAdd\cals@paddingL
9798 \else
9799   \cals@vfillDrop\cals@paddingL
9800 \fi
9801 \cals@vfillDrop\cals@paddingR}
9802 \renewcommand\alignR{%
9803 \if@RTLtab
9804   \cals@vfillDrop\cals@paddingL
9805 \else
9806   \cals@vfillAdd\cals@paddingL
9807 \fi
9808 \cals@vfillDrop\cals@paddingR}

```

## 68 File caption-xetex-bidi.def

```

9809 \ProvidesFile{caption-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for caption package]
9810 \let\@makecaption\caption@makecaption

```

## 69 File caption3-xetex-bidi.def

```

9811 \ProvidesFile{caption3-xetex-bidi.def}[2013/04/01 v0.1 bidi adaptations for caption3 package]
9812 \renewcommand*\caption@par{%
9813   \parindent\caption@parindent\hangindent\if@RTL-\fi\caption@hangindent}%

```

## 70 File colortbl-xetex-bidi.def

```

9814 \ProvidesFile{colortbl-xetex-bidi.def}[2012/06/10 v0.2 bidi adaptations for colortbl package]
9815 \def\CT@setup{%
9816   \@tempdimb\col@sep
9817   \@tempdimc\col@sep
9818   \def\CT@color{%
9819     \global\let\CT@do@color\CT@@do@color
9820     \bidicolor}}
9821 \def\@classz{\@classx
9822   \@tempcnta \count@
9823   \prepnext@tok
9824 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
9825   \@addtopreamble{\if@RTLtab\beginL\fi%
9826     \setbox\z@\hbox\bgroup\bgroup\if@RTLtab\beginR\fi
9827       \ifcase \@chnum
9828         \hskip\stretch{.5}\kern\z@
9829         \dollarbegin
9830         \insert@column
9831         \dollarend\hskip\stretch{.5}\or
9832         \dollarbegin \insert@column \dollarend \hfill \or
9833         \hfill\kern\z@ \dollarbegin \insert@column \dollarend \or
9834   $\vcenter
9835   \@startpbox{\@nextchar}\insert@column \@endpbox $\or
9836   \vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
9837   \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
9838 \fi

```



```

9839 \if@RTLtab\endR\fi\egroup\egroup
9840 \begingroup
9841 \CT@setup
9842 \CT@column@color
9843 \CT@row@color
9844 \CT@cell@color
9845 \CT@do@color
9846 \endgroup
9847 \@tempdima\ht\z@
9848 \advance\@tempdima\minrowclearance
9849 \vrule\@height\@tempdima\@width\z@
9850 \unhbox\z@\if@RTLtab\endL\fi}%
9851 \prepnext@tok}

```

## 71 File color-xetex-bidi.def

```

9852 \ProvidesFile{color-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for color package for Xe
9853 \long\def\color@b@x#1#2#3{%
9854 \leavevmode\ifhmode\else\if@RTL\beginL\fi\fi
9855 \setbox\z@\hbox{\kern\fbboxsep{\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
9856 \dimen@ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
9857 \dimen@dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
9858 \if1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}}%
9859 \box\z@}\ifhmode\else\if@RTL\endL\fi\fi}
9860 \def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi}
9861 \DeclareRobustCommand\color{%
9862 \ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor]}
9863 \def\@declaredcolor#1{%
9864 \@ifundefined{\string\color @#1}%
9865 {\c@lor@error{`#1'}}%
9866 {\expandafter\let\expandafter\current@color
9867 \csname\string\color @#1\endcsname
9868 \set@color}%
9869 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
9870 \def\@undeclaredcolor[#1]#2{%
9871 \@ifundefined{color@#1}%
9872 {\c@lor@error{model `#1'}}%
9873 {\csname color@#1\endcsname\current@color{#2}%
9874 \set@color}%
9875 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
9876 \DeclareRobustCommand\bidicolor{%
9877 \@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor]}
9878 \def\@bidiundeclaredcolor[#1]#2{%
9879 \@ifundefined{color@#1}%
9880 {\c@lor@error{model `#1'}}%
9881 {\csname color@#1\endcsname\current@color{#2}%
9882 \set@color}%
9883 \ignorespaces}
9884 \def\@bidideclaredcolor#1{%
9885 \@ifundefined{\string\color @#1}%
9886 {\c@lor@error{`#1'}}%
9887 {\expandafter\let\expandafter\current@color
9888 \csname\string\color @#1\endcsname
9889 \set@color}%

```





```

9890 \ignorespaces}
9891 \def\color@box#1#2{\color@bex\relax{\bidicolor#1{#2}}}%
9892 \def\color@fbox#1#2#3{%
9893   \color@bex{\fboxsep\z@\bidicolor#1{#2}\fbox}{\bidicolor#1{#3}}%
9894 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmod

```

## 72 File combine-xetex-bidi.def

```

9895 \ProvidesFile{combine-xetex-bidi.def}[2011/09/23 v0.1 bidi adaptations for combine class for
9896 \renewcommand{\c@ll@chapsecii}[2]{%
9897   \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
9898   \if@RTL\hskip -\rightskip\else\hskip -\leftskip\fi
9899   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9900 }
9901 \renewcommand{\c@ll@chapseci}{%
9902   \setlength\@tempdima{0em}%
9903   \begingroup
9904     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9905     \parfillskip -\@pnumwidth
9906     \leavevmode
9907 }
9908 \renewenvironment{tocindent}[1]{%
9909   \hangindent \if@RTL-\fi#1 \hangafter -100\relax}{%

```

## 73 File crop-xetex-bidi.def

```

9910 \ProvidesFile{crop-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for crop package for XeT
9911 \renewcommand*\CROP@ulc{%
9912   \if@RTLmain%
9913     \begin{picture}(0,0)
9914       \unitlength\p@\thinline
9915       \put(-40,0){\circle{10}}
9916       \put(-30,-5){\line(0,1){10}}
9917       \put(-35,0){\line(1,0){30}}
9918       \put(-10,30){\circle{10}}
9919       \put(-5,30){\line(1,0){10}}
9920       \put(0,35){\line(0,-1){30}}
9921     \end{picture}%
9922   \else%
9923     \begin{picture}(0,0)
9924       \unitlength\p@\thinline
9925       \put(-30,0){\circle{10}}
9926       \put(-30,-5){\line(0,1){10}}
9927       \put(-35,0){\line(1,0){30}}
9928       \put(0,30){\circle{10}}
9929       \put(-5,30){\line(1,0){10}}
9930       \put(0,35){\line(0,-1){30}}
9931     \end{picture}%
9932   \fi%
9933 }
9934 \renewcommand*\CROP@urc{%
9935   \if@RTLmain%
9936     \begin{picture}(0,0)
9937       \unitlength\p@\thinline

```



```

9938         \put(20,0){\circle{10}}
9939         \put(30,-5){\line(0,1){10}}
9940         \put(35,0){\line(-1,0){30}}
9941         \put(-10,30){\circle{10}}
9942         \put(-5,30){\line(1,0){10}}
9943         \put(0,35){\line(0,-1){30}}
9944     \end{picture}%
9945 \else%
9946     \begin{picture}(0,0)
9947         \unitlength\p@\thinline
9948         \put(30,0){\circle{10}}
9949         \put(30,-5){\line(0,1){10}}
9950         \put(35,0){\line(-1,0){30}}
9951         \put(0,30){\circle{10}}
9952         \put(-5,30){\line(1,0){10}}
9953         \put(0,35){\line(0,-1){30}}
9954     \end{picture}%
9955 \fi%
9956 }
9957 \renewcommand*\CROP@llc{%
9958     \if@RTLmain%
9959         \begin{picture}(0,0)
9960             \unitlength\p@\thinline
9961             \put(-40,0){\circle{10}}
9962             \put(-30,-5){\line(0,1){10}}
9963             \put(-35,0){\line(1,0){30}}
9964             \put(-10,-30){\circle{10}}
9965             \put(-5,-30){\line(1,0){10}}
9966             \put(0,-35){\line(0,1){30}}
9967         \end{picture}%
9968     \else%
9969         \begin{picture}(0,0)
9970             \unitlength\p@\thinline
9971             \put(-30,0){\circle{10}}
9972             \put(-30,-5){\line(0,1){10}}
9973             \put(-35,0){\line(1,0){30}}
9974             \put(0,-30){\circle{10}}
9975             \put(-5,-30){\line(1,0){10}}
9976             \put(0,-35){\line(0,1){30}}
9977         \end{picture}%
9978     \fi%
9979 }
9980 \renewcommand*\CROP@llrc{%
9981     \if@RTLmain%
9982         \begin{picture}(0,0)
9983             \unitlength\p@\thinline
9984             \put(20,0){\circle{10}}
9985             \put(30,-5){\line(0,1){10}}
9986             \put(35,0){\line(-1,0){30}}
9987             \put(-10,-30){\circle{10}}
9988             \put(-5,-30){\line(1,0){10}}
9989             \put(0,-35){\line(0,1){30}}
9990         \end{picture}%
9991     \else%

```



```

9992 \begin{picture}(0,0)
9993 \unitlength\p@\thinline
9994 \put(30,0){\circle{10}}
9995 \put(30,-5){\line(0,1){10}}
9996 \put(35,0){\line(-1,0){30}}
9997 \put(0,-30){\circle{10}}
9998 \put(-5,-30){\line(1,0){10}}
9999 \put(0,-35){\line(0,1){30}}
10000 \end{picture}%
10001 \fi%
10002 }
10003 \ifpackagewith{crop}{cam}{%
10004 \CROP@execopt{cam}%
10005 }{}

```

## 74 File cutwin-xetex-bidi.def

```

10006 \ProvidesFile{cutwin-xetex-bidi.def}[2011/11/12 v0.1 bidi adaptations for cutwin package for
10007 \renewcommand*{\c@twcompctr}[2]{%
10008 \def\c@twfirst{1}
10009 \loop\advance\c@twwinlines\m@ne
10010 \setbox\c@twslicea=\vsplit#1 to\baselineskip
10011 \setbox\c@twsliceb=\vsplit#1 to\baselineskip
10012 \c@twprune{\c@twslicea}{\c@twlftside}%
10013 \c@twprune{\c@twsliceb}{\c@twrtside}%
10014 \ifnum\c@twfirst=\@ne
10015 \setbox#2=\vbox{\unvbox#2\hbox
10016 to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\pageinwindow\hfil\if@RTL\box\c@tw
10017 \else
10018 \setbox#2=\vbox{\unvbox#2\hbox
10019 to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\box\c@tw
10020 \fi
10021 \def\c@twfirst{2}
10022 \ifnum\c@twwinlines>\z@\repeat}
10023 \renewcommand*{\c@twcompodctr}[2]{%
10024 \def\c@twrounds{1}
10025 \def\c@twfirst{1}
10026 \@for\c@twlspec:=\c@twb\do{%
10027 \ifnum\c@twrounds=1
10028 \setbox\c@twslicea=\vsplit#1 to\baselineskip % first of pair
10029 \c@twprune{\c@twslicea}{\c@twlspec}%
10030 \def\c@twrounds{2}
10031 \else
10032 \setbox\c@twsliceb=\vsplit#1 to\baselineskip % second of pair
10033 \c@twprune{\c@twsliceb}{\c@twlspec}%
10034 \ifnum\c@twfirst=1
10035 \setbox#2=\vbox{\unvbox#2\hbox
10036 to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\picinwindow\hfil\if@RTL\box\c@tw
10037 \def\c@twfirst{2}
10038 \else
10039 \setbox#2=\vbox{\unvbox#2\hbox
10040 to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\box\c@tw
10041 \fi
10042 \def\c@twrounds{1}

```



```
10043 \fi}}
```

## 75 File cuted-xetex-bidi.def

```
10044 \ProvidesFile{cuted-xetex-bidi.def}[2022/02/18 v0.7 bidi adaptations for cuted package for X
10045
10046 \def\RTL@outputdblcol{%
10047   \if@firstcolumn
10048     \global\@firstcolumnfalse
10049     \global\setbox\@leftcolumn\copy\@outputbox
10050     \splitmaxdepth\maxdimen
10051     \vbadness\maxdimen
10052     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10053     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10054     \toks@\expandafter{\topmark}%
10055     \xdef\@firstcoltopmark{\the\toks@}%
10056     \toks@\expandafter{\splitfirstmark}%
10057     \xdef\@firstcolfirstmark{\the\toks@}%
10058     \ifx\@firstcolfirstmark\empty
10059       \global\let\@setmarks\relax
10060     \else
10061       \gdef\@setmarks{%
10062         \let\firstmark\@firstcolfirstmark
10063         \let\topmark\@firstcoltopmark}%
10064     \fi
10065   \else
10066     \global\@firstcolumntrue
10067     \setbox\@outputbox\vbox{%
10068       \hb@xt@\textwidth{%
10069         \hskip \columnwidth
10070         \hfil
10071         {\normalcolor\vrule \@width\columnseprule}%
10072         \hfil
10073         \hb@xt@\columnwidth{%
10074           \bidi@firstcolumn@status@write%
10075           \box\@leftcolumn \hss}%
10076         \hskip -\textwidth
10077         \hb@xt@\columnwidth{%
10078           \bidi@lastcolumn@status@write%
10079           \box\@outputbox \hss}%
10080         \hskip \columnsep
10081         \hskip \columnwidth }}%
10082     \ifvoid\hold@viper
10083     \else
10084       \setbox\@outputbox \vbox to\textheight{%
10085         \box\hold@viper
10086         \box\@outputbox
10087         \vss
10088       }%
10089     \fi
10090   \@combinedblfloats
10091   \@setmarks
10092   \@outputpage
10093   \begingroup
```



```

10094 \dblfloatplacement
10095 \startdblcolumn
10096 \@whiles\if@fcolmade \fi{\@outputpage
10097 \startdblcolumn}%
10098 \ifvoid\@viper
10099 \else
10100 \global\setbox\@viper\vbox{%
10101 \vskip-\stripsep
10102 \unvbox\@viper
10103 }%
10104 \@viperoutput
10105 \fi
10106 \endgroup
10107 \fi}%
10108
10109 \def\LTR@outputdblcol{%
10110 \if@firstcolumn
10111 \global\@firstcolumnfalse
10112 \global\setbox\@leftcolumn\copy\@outputbox
10113 \splitmaxdepth\maxdimen
10114 \vbadness\maxdimen
10115 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10116 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10117 \toks@{\expandafter{\topmark}}%
10118 \xdef\@firstcoltopmark{\the\toks@}%
10119 \toks@\expandafter{\splitfirstmark}%
10120 \xdef\@firstcolfirstmark{\the\toks@}%
10121 \ifx\@firstcolfirstmark\@empty
10122 \global\let\@setmarks\relax
10123 \else
10124 \gdef\@setmarks{%
10125 \let\firstmark\@firstcolfirstmark
10126 \let\topmark\@firstcoltopmark}%
10127 \fi
10128 \else
10129 \global\@firstcolumntrue
10130 \setbox\@outputbox\vbox{%
10131 \hb@xt@\textwidth{%
10132 \hb@xt@\columnwidth{%
10133 \bidi@firstcolumn@status@write%
10134 \box\@leftcolumn \hss}%
10135 \hfil
10136 {\normalcolor\vrule \@width\columnseprule}%
10137 \hfil
10138 \hb@xt@\columnwidth{%
10139 \bidi@lastcolumn@status@write%
10140 \box\@outputbox \hss}}}%
10141 \ifvoid\hold@viper
10142 \else
10143 \setbox\@outputbox \vbox to\textheight{%
10144 \box\hold@viper
10145 \box\@outputbox
10146 \vss
10147 }%

```



```

10148 \fi
10149 \@combinedblfloats
10150 \@setmarks
10151 \@outputpage
10152 \beginngroup
10153 \@dblfloatplacement
10154 \@startdblcolumn
10155 \@whiles\if@fcolmade \fi{\@outputpage
10156 \@startdblcolumn}%
10157 \ifvoid\@viper
10158 \else
10159 \global\setbox\@viper\vbox{%
10160 \vskip-\stripsep
10161 \unvbox\@viper
10162 }%
10163 \@viperoutput
10164 \fi
10165 \endgroup
10166 \fi}%
10167
10168 \def\@addviper{%
10169 \insertfalse
10170 \def\var@@thecol@num{2}%
10171 \if@firstcolumn
10172 \def\var@@thecol@num{1}%
10173 \@reqcolroom=.5\@pageht
10174 \ht@viper=\@reqcolroom
10175 \advance\@reqcolroom by\ht\@viper
10176 \advance\@reqcolroom by\stripsep
10177 \else
10178 \@reqcolroom=\@colht
10179 \advance\@reqcolroom by\@pageht
10180 \ht@viper.5\@reqcolroom
10181 \@reqcolroom=\ht@viper
10182 \advance\@reqcolroom by\ht\@viper
10183 \advance\@reqcolroom by\stripsep
10184 \global\setbox\@holdpg\vbox{%
10185 \setbox\cuted@tempbox@a\vbox{%
10186 \aftergroup\unvbox
10187 \unvcopy\@leftcolumn
10188 \unskip\unkern\unpenalty
10189 \setbox\@tempbox@a\lastbox
10190 \ifdim\dimexpr\ht\@tempbox@a+\wd\@tempbox@a+\dp\@tempbox@a>\z@
10191 %% keeps lastbox
10192 \aftergroup\@leftcolumn
10193 \else
10194 %% removes lastbox
10195 \aftergroup\cuted@tempbox@a
10196 \fi
10197 }%
10198 \unskip\unkern\unpenalty
10199 \on@stripcols@break
10200 \the\At@ViperColsBreak
10201 \unvbox\@holdpg

```



```

10202         }%
10203         \global\At@ViperColsBreak{}%
10204         \ht@viper=.5\ht\@holdpg
10205         \ifdim\ht@viper>\@colht
10206             \ht@viper=\@colht
10207         \fi
10208     \fi
10209     %%
10210     %% calculations for breaking
10211     %%
10212     \ifvoid\hold@viper
10213         \ht@hold@viper=\z@
10214     \else
10215         \ht@hold@viper=\ht\hold@viper
10216     \fi
10217     \cuted@@tempdim@b\ht@viper
10218     \set@split@topskip@to\topskip
10219     \loop
10220         \xdef\saved@tempdimb{\the\cuted@@tempdim@b}%
10221         \setbox\cuted@@varbox@a\copy\@holdpg
10222         \setbox\cuted@@tempbox@a\vsplit\cuted@@varbox@a to\cuted@@tempdim@b
10223         %% set leftcolumn boxes
10224         \setbox\cuted@@tempbox@c\ vbox{\unvbox\cuted@@tempbox@a}%
10225         \setbox\cuted@@tempbox@a\ vbox to\cuted@@tempdim@b{\unvcopy\cuted@@tempbox@c}%
10226         \xdef\var@@leftcolumn@badness{\the\badness}%
10227         %% set rightcolumn boxes
10228         \setbox\cuted@@varbox@c\ vbox{\unvbox\cuted@@varbox@a}%
10229         \setbox\cuted@@varbox@a\ vbox to\cuted@@tempdim@b{\unvcopy\cuted@@varbox@c}%
10230         \xdef\var@@rightcolumn@badness{\the\badness}%
10231         %% analyzing split goodness
10232         \cuted@@tempdim@spread=\ht\cuted@@tempbox@c
10233         \advance\cuted@@tempdim@spread by\dp\cuted@@tempbox@c
10234         \advance\cuted@@tempdim@spread by-\ht\cuted@@varbox@c
10235         \advance\cuted@@tempdim@spread by-\dp\cuted@@varbox@c
10236         \cuted@@wlog@debug{CUTED [----]}%
10237         ^^JLeft: \the\ht\cuted@@tempbox@c
10238         +\the\dp\cuted@@tempbox@c\space/\var@@leftcolumn@badness
10239         ^^JRight: \the\ht\cuted@@varbox@c
10240         +\the\dp\cuted@@varbox@c\space/\var@@rightcolumn@badness
10241         ^^JSplit: \the\cuted@@tempdim@b
10242         ^^JExtra height: \the\cuted@@tempdim@spread
10243     }%
10244     \ifnum\var@@leftcolumn@badness<\cuted@@column@badness
10245         \ifnum\var@@rightcolumn@badness<\cuted@@column@badness
10246             \cuted@@tempdim@spread=\z@
10247         \fi
10248     \fi
10249     \ifdim\cuted@@tempdim@spread<\z@
10250         \if@leftcolumn@spread
10251             \if@rightcolumn@shrink
10252                 \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink>\z@
10253                     \cuted@@tempdim@a=\dimexpr\ht\cuted@@tempbox@c-0.5\cuted@@tempdim@spread
10254                 \else
10255                     \cuted@@tempdim@a=-\dimexpr\cuted@@tempdim@spread+.5\pageshrink\rela

```



```

10256         \fi
10257         \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@tempbox@c}
10258         \ifnum\badness<\cuted@@column@badness
10259             \cuted@@tempdim@b=\cuted@@tempdim@a
10260             \cuted@@tempdim@spread=\z@
10261         \fi
10262         \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness\space on \the\ht}
10263         \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@varbox@c}
10264         \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness\space on \the\ht}
10265     \else
10266         \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{\unvcopy\cuted@@tempbox@c}
10267         \unvcopy\cuted@@tempbox@c
10268     }%
10269     \ifnum\badness<\cuted@@column@badness
10270         \@tempdimb=\ht\cuted@@varbox@c
10271         \cuted@@tempdim@spread=\z@
10272     \fi
10273     \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness on \the\ht}
10274     \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{\unvcopy\cuted@@varbox@c}
10275     \unvcopy\cuted@@varbox@c
10276 }%
10277 \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness on \the\ht}
10278 \fi
10279 \else
10280     \if@right@column@shrink
10281         \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink<\z@
10282             \else
10283                 \cuted@@tempdim@b=\ht\cuted@@tempbox@c
10284                 \cuted@@tempdim@spread=\z@
10285             \fi
10286         \fi
10287     \fi
10288 \else
10289     \ifdim\cuted@@tempdim@spread>\z@
10290         \ifdim\dimexpr\@tempdimb+\p@>\relax>\@colht
10291             \cuted@@tempdim@b=\@colht
10292             \cuted@@tempdim@spread=\z@
10293         \fi
10294     \fi
10295 \fi
10296 \ifdim\cuted@@tempdim@spread<\z@
10297     \advance\cuted@@tempdim@b 1\p@
10298 \repeat
10299 \wlog{CUTED [- LAST -]}%
10300 ^^JExtra skip:\the\cuted@@tempdim@spread
10301 ^^JLeft:\the\ht\cuted@@tempbox@c/\the\dp\cuted@@tempbox@c
10302 ^^JRight:\the\ht\cuted@@varbox@c/\the\dp\cuted@@varbox@c
10303 ^^JSplit:\saved@tempdimb
10304 ^^JOutput:\the\cuted@@tempdim@b
10305 ^^JPageshrink:\the\pageshrink
10306 ^^JPagestretch:\the\pagestretch
10307 ^^J@colht:\the\@colht
10308 }%
10309 %%

```





```

10310 %% final construction of the cuted page above strip
10311 %%
10312 \setbox\cuted@@tempbox@c\vsplit\@holdpg to\saved@tempdimb
10313 \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{%
10314   \cuted@@tempdim@a=\dimexpr
10315     \cuted@@tempdim@b-\ht\cuted@@tempbox@c
10316     \relax
10317   \cuted@@tempdim@spread=\dp\cuted@@tempbox@c
10318   \unvbox\cuted@@tempbox@c
10319   \ifdim\cuted@@tempdim@spread>\dp\strutbox
10320   \else
10321     \vskip-\cuted@@tempdim@spread
10322   \fi
10323   \prevdepth\z@
10324   \hrule\@height\cuted@@page@rule width\textwidth
10325   \vskip-\cuted@@page@rule
10326   \ifdim\cuted@@tempdim@a>\z@
10327     \if@left@column@spread
10328     \else
10329       \vss
10330     \fi
10331   \else
10332     \ifdim\cuted@@tempdim@a<\z@
10333       \if@left@column@shrink
10334       \else
10335         \vss
10336       \fi
10337     \fi
10338   \fi
10339 }%
10340 \wlog{CUTED [output]: \the\cuted@@tempdim@b
10341   ^^JCUTED [leftcolumn badness]: \number\badness
10342 }%
10343 \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{%
10344   \cuted@@tempdim@a=\dimexpr
10345     \cuted@@tempdim@b-\ht\@holdpg
10346     \relax
10347   \unvbox\@holdpg
10348   \ifdim\cuted@@tempdim@a>\z@
10349     \if@right@column@spread
10350     \else
10351       \vss
10352     \fi
10353   \else
10354     \ifdim\cuted@@tempdim@a<\z@
10355       \if@right@column@shrink
10356       \else
10357         \vss
10358       \fi
10359     \fi
10360   \fi
10361 }%
10362 \wlog{CUTED [rightcolumn badness]: \number\badness}%
10363 \setbox\cuted@@tempbox@var\vbox{%

```



```

10364      \hb@xt@\textwidth{%
10365      \if@RTLmain
10366      \hskip \columnwidth
10367      \hfil
10368      {\normalcolor\vrule \@width\columnseprule}%
10369      \hfil
10370      \hb@xt@\columnwidth{%
10371      \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10372      \hss
10373      }%
10374      \hskip -\textwidth
10375      \hb@xt@\columnwidth{%
10376      \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10377      \hss
10378      }%
10379      \hskip \columnsep
10380      \hskip \columnwidth
10381      \else
10382      \hb@xt@\columnwidth{%
10383      \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10384      \hss
10385      }%
10386      \hfil
10387      {\normalcolor\vrule \@width\columnseprule}%
10388      \hfil
10389      \hb@xt@\columnwidth{%
10390      \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10391      \hss
10392      }%
10393      \fi
10394      }%
10395      }%
10396      %%
10397      %% finalize cuted page
10398      %%
10399      \ifvoid\hold@viper
10400      \global\setbox\hold@viper\vbox{%
10401      \unvbox\cuted@@tempbox@var
10402      \penalty\interlinepenalty
10403      \vskip\stripsep
10404      \the\preCutedStrip
10405      \ifnum\outputpenalty<-\@Mii
10406      \vskip -\parskip
10407      \fi
10408      \outputpenalty\z@
10409      }%
10410      \else
10411      \global\setbox\hold@viper\vbox{%
10412      \unvbox\hold@viper
10413      \cuted@@tempbox@var
10414      \penalty\interlinepenalty
10415      \vskip\stripsep
10416      \the\preCutedStrip
10417      \ifnum\outputpenalty<-\@Mii

```



```

10418             \vskip -\parskip
10419         \fi
10420         \outputpenalty\z@
10421     }%
10422 \fi
10423 \ifdim\@colht>\@reqcolroom
10424     \global\setbox\hold@viper\vbox{%
10425         \unvbox\hold@viper
10426         \box\@viper
10427         \penalty\interlinepenalty
10428         \the\postCutedStrip
10429         \vskip\stripsep
10430         \ifnum\outputpenalty<-\@Mii
10431             \vskip -\parskip
10432         \fi
10433         \outputpenalty\z@
10434     }%
10435 \inserttrue
10436 \global\@firstcolumntrue
10437 \advance\ht@hold@viper by-\ht\hold@viper
10438 \global\advance\@colht by\ht@hold@viper
10439 \ifdim\@colht<2.5\baselineskip
10440     \latex@warning@no@line {Optional argument of \noexpand\twocolumn
10441                             too tall on page \thepage (\var@@thecol@num column)}}%
10442     \emptycol
10443     \if@firstcolumn
10444     \else
10445         \emptycol
10446     \fi
10447     \global\@lastvipertrue
10448 \else
10449     \global\size\@colht
10450     \global\@colroom\@colht
10451     \check@floats\cuted@@tempdim@a
10452     \ifdim\cuted@@tempdim@a>\z@
10453         \global\advance\@colroom by-\cuted@@tempdim@a
10454     \fi
10455     \ifdim\@colroom<\z@
10456         \global\@colroom1\p@
10457         \ifdim\cuted@@tempdim@a>\@colht
10458             \latex@warning@no@line{TOP and/or BOT FLOAT's
10459                                     to large on \thepage (\var@@thecol@num column)}}%
10460         \fi
10461         \emptycol
10462         \if@firstcolumn
10463         \else
10464             \emptycol
10465         \fi
10466         \global\@lastvipertrue
10467     \fi
10468 \fi
10469 \fi
10470 \if@insert
10471 \else

```



```

10472      \advance\ht@hold@viper by-\ht\hold@viper
10473      \global\advance\colht by\ht@hold@viper
10474      \global\setbox\hold@viper\ vbox{%
10475          \unvbox\hold@viper
10476          \set@split@topskip@to{\z@ plus2\p@}%
10477          \vsplit\@viper to\colht
10478          \vss
10479      }%
10480      \vbox{%
10481      \global\@firstcolumnfalse
10482      \newpage
10483      \fi
10484      }

```

## 76 File cvthemebidicasual.sty

```

10485 \NeedsTeXFormat{LaTeX2e}
10486 \ProvidesPackage{cvthemebidicasual}
10487 \DeclareOption{blue}{}
10488 \newif\if@colourorange\@colourorangefalse
10489 \DeclareOption{orange}{\@colourorangetrue}
10490 \newif\if@colourgreen\@colourgreenfalse
10491 \DeclareOption{green}{\@colourgreentrue}
10492 \newif\if@coloured\@colouredfalse
10493 \DeclareOption{red}{\@colouredtrue}
10494 \newif\if@colourgrey\@colourgreyfalse
10495 \DeclareOption{grey}{\@colourgreytrue}
10496 \DeclareOption*{
10497   \PackageWarning{cvthemebidicasual}{Unknown option ‘\CurrentOption’}}
10498 \ExecuteOptions{colour}
10499 \ProcessOptions\relax
10500 \renewcommand*{\listitemsymbol}{\textbullet}
10501 \definecolor{firstnamecolor}{rgb}{0.65,0.65,0.65}
10502 \familynamecolour{808080}
10503 \firstnamecolour{A9A9A9}
10504 \quotecolour{696969}
10505 \addresscolour{696969}
10506 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.50,0.75}
10507 \sectiontitlecolour{1E90FF}
10508 \subsectioncolour{4682B4}
10509 \definecolor{rulecolour}{gray}{0.6}
10510 \definecolor{footersymbolcolour}{rgb}{0.25,0.50,0.75}
10511 \definecolor{footersymbolcolor}{rgb}{0.25,0.50,0.75}
10512 \if@colourorange
10513   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10514   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10515   \sectiontitlecolour{FF8C00}
10516   \subsectioncolour{FF8C00}
10517   \definecolor{footersymbolcolour}{rgb}{0.95,0.55,0.15}
10518   \definecolor{footersymbolcolor}{rgb}{0.95,0.55,0.15}\fi
10519 \if@colourgreen
10520   \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10521   \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10522   \sectiontitlecolour{008000}

```



```

10523 \subsectioncolour{008000}
10524 \definecolor{footersymbolcolour}{rgb}{0.30,0.65,0.15}
10525 \definecolor{footersymbolcolor}{rgb}{0.30,0.65,0.15}\fi
10526 \if@coloured
10527 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10528 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10529 \sectiontitlecolour{FF0000}
10530 \subsectioncolour{FF0000}
10531 \definecolor{footersymbolcolour}{rgb}{0.95,0.20,0.20}
10532 \definecolor{footersymbolcolor}{rgb}{0.95,0.20,0.20}\fi
10533 \if@colourgrey
10534 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10535 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10536 \sectiontitlecolour{808080}
10537 \subsectioncolour{808080}
10538 \definecolor{footersymbolcolour}{rgb}{0.35,0.35,0.35}
10539 \definecolor{footersymbolcolor}{rgb}{0.35,0.35,0.35}\fi
10540 \renewcommand*{\ttdefault}{pcr}
10541 \renewcommand*{\firstnamefont}{\fontsize{38}{40}\mdseries\upshape}
10542 \renewcommand*{\familynamefont}{\firstnamefont}
10543 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10544 \renewcommand*{\quoteontext}{\large\slshape}
10545 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10546 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10547 \renewcommand*{\maketitle}{%
10548   {%
10549     \ifthenelse{\isundefined{\@photo}}{%
10550       {}%
10551       {\color{firstnamecolor}\framebox{\includegraphics[width=\@photowidth]{\@photo}}}%
10552       \hfill%
10553       \bidi@raggedleft{\firstnamestyle{\@firstname}~\familynamestyle{\@familyname}}\[-.35em]}%
10554       {\color{firstnamecolor}\rule{\textwidth}{.25ex}\[2.5em]}%
10555     \ifthenelse{\isundefined{\@quote}}{%
10556       {}%
10557       {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\%
10558     }%
10559 \newif\if@firstfooterelement\@firstfooterelementtrue
10560 \providecommand*{\footersymbol}{%
10561 \renewcommand*{\footersymbol}{%
10562 \if@firstfooterelement%
10563 \else%
10564 { ~\color{footersymbolcolor}\textbullet~~}\fi}
10565 \providecommand*{\makefooter}{%
10566 \renewcommand*{\makefooter}{%
10567 \fancypagestyle{plain}{%
10568 \fancyfoot[c]{%
10569 \parbox{0.8\textwidth}{%
10570 \centering%
10571 \addressfont\@addresscolour%
10572 \ifthenelse{\isundefined{\@address}}{\%
10573 \addresssymbol~\@address\%
10574 \@firstfooterelementfalse}%
10575 \ifthenelse{\isundefined{\@mobile}}{\@mobilesymbol~\@mobile\@firstfooterelementfalse}%
10576 \ifthenelse{\isundefined{\@phone}}{\@phone\@firstfooterelementfalse}%

```



```

10577 \ifthenelse{\isundefined{\@fax}}{\footersymbol\faxsymbol~\@fax\@firstfooterelementfa
10578 \ifthenelse{\isundefined{\@email}}{\footersymbol\emailsymbol~\emaillink{\@email}\@fi
10579 \ifthenelse{\isundefined{\@extrainfo}}{\footersymbol\@extrainfo\@firstfooterelementf
10580 }%
10581 \pagestyle{plain}}
10582 \AtBeginDocument{\makefooter}

```

## 77 File cvthemebidiclassic.sty

```

10583 \NeedsTeXFormat{LaTeX2e}
10584 \ProvidesPackage{cvthemebidiclassic}
10585 \DeclareOption{blue}{}
10586 \newif\if@colourorange\@colourorangefalse
10587 \DeclareOption{orange}{\@colourorangertrue}
10588 \newif\if@colourgreen\@colourgreenfalse
10589 \DeclareOption{green}{\@colourgreentrue}
10590 \newif\if@colourred\@colourredfalse
10591 \DeclareOption{red}{\@colourredtrue}
10592 \newif\if@colourgrey\@colourgreyfalse
10593 \DeclareOption{grey}{\@colourgreytrue}
10594 \DeclareOption*{
10595 \PackageWarning{cvthemebidiclassic}{Unknown option '\CurrentOption'}}
10596 \ExecuteOptions{colour}
10597 \ProcessOptions\relax
10598 \renewcommand*{\listitemsymbol}{\textbullet}
10599 \firstnamecolour{}
10600 \familynamecolour{}
10601 \titlecolour{808080}
10602 \quotecolour{696969}
10603 \addresscolour{696969}
10604 \definecolor{sectionrectanglecolour}{rgb}{0.25,0.50,0.75}
10605 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.5,0.75}
10606 \sectiontitlecolour{1E90FF}
10607 \subsectioncolour{4682B4}
10608 \if@colourorange
10609 \addresscolour{FF8C00}
10610 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10611 \definecolor{sectionrectanglecolor}{rgb}{1,0.65,0.20}
10612 \sectiontitlecolour{FF8C00}
10613 \subsectioncolour{FF8C00}\fi
10614 \if@colourgreen
10615 \addresscolour{008000}
10616 \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10617 \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10618 \sectiontitlecolour{008000}
10619 \subsectioncolour{008000}\fi
10620 \if@colourred
10621 \addresscolour{FF0000}
10622 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10623 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10624 \sectiontitlecolour{FF0000}
10625 \subsectioncolour{FF0000}\fi
10626 \if@colourgrey
10627 \addresscolour{808080}

```



```

10628 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10629 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10630 \sectiontitlecolour{808080}
10631 \subsectioncolour{808080}\fi
10632 \renewcommand*{\ttdefault}{pcr}
10633 \renewcommand*{\firstnamefont}{\fontsize{34}{36}\mdseries\upshape}
10634 \renewcommand*{\titlefont}{\LARGE\mdseries\slshape}
10635 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10636 \renewcommand*{\familynamefont}{\firstnamefont}
10637 \renewcommand*{\quoteont}{\large\slshape}
10638 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10639 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10640 \newlength{\maketitlenamewidth}
10641 \setlength{\maketitlenamewidth}{.525\textwidth}
10642 \newlength{\maketitlefullwidth}
10643 \settowidth{\maketitlefullwidth}{\firstnamestyle{\@firstname~}\familynamestyle{\@familyname}}
10644 \newlength{\maketitlewidth}
10645 \ifnum\maketitlenamewidth<\maketitlefullwidth\setlength{\maketitlewidth}{\maketitlefullwidth}
10646 \newlength{\maketitlepicturewidth}
10647 \setlength{\maketitlepicturewidth}{\@photowidth}
10648 \newlength{\maketitledetailwidth}
10649 \renewcommand*{\recomputethemelengths}{%
10650 \setlength{\maketitledetailwidth}{\textwidth}%
10651 \addtolength{\maketitledetailwidth}{-\maketitlewidth}%
10652 \addtolength{\maketitledetailwidth}{-\separatorcolumnwidth}%
10653 \addtolength{\maketitledetailwidth}{-\maketitlepicturewidth}}
10654 \recomputethemelengths
10655 \newif\if@firstdetailselement\@firstdetailselementtrue
10656 \newcommand*{\maketitledetailnewline}{
10657 \if@firstdetailselement%
10658 \@firstdetailselementfalse%
10659 \else%
10660 \[\.2em]\fi}
10661 \renewcommand*{\maketitle}{%
10662 % name and title
10663 \begin{minipage}[b]{\maketitlewidth}%
10664 \firstnamestyle{\@firstname~}\familynamestyle{\@familyname}%
10665 \ifthenelse{equal{\@title}{}}{\}\{\}\[1.25em]\titlestyle{\@title}}%
10666 \end{minipage}%
10667 % optional data
10668 \begin{minipage}[b]{\maketitledetailwidth}%
10669 \bidi@raggedleft\addressfont\addresscolour%
10670 \ifthenelse{\isundefined{\@address}}{\}%
10671 \maketitledetailnewline%
10672 \addresssymbol~\[\@address}%
10673 \ifthenelse{\isundefined{\@mobile}}{\}\{\}\maketitledetailnewline\mobilesymbol~\@mobile}%
10674 \ifthenelse{\isundefined{\@phone}}{\}\{\}\maketitledetailnewline\phonesymbol~\@phone}%
10675 \ifthenelse{\isundefined{\@fax}}{\}\{\}\maketitledetailnewline\faxsymbol~\@fax}%
10676 \ifthenelse{\isundefined{\@email}}{\}\{\}\maketitledetailnewline\emailsymbol~\emailink{\@email}}%
10677 \ifthenelse{\isundefined{\@extrainfo}}{\}\{\}\maketitledetailnewline\@extrainfo}%
10678 \end{minipage}%
10679 % optional photo
10680 \ifthenelse{\isundefined{\@photo}}{\}%
10681 {}%

```



```

10682     {\hspace*{\separatorcolumnwidth}\color{firstnamecolor}\framebox{\includegraphics[width=
10683 % optional quote
10684 \ifthenelse{\isundefined{\@quote}}{
10685 }{
10686 {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}}\
10687 }

```

## 78 File dblfnote-xetex-bidi.def

```

10688 \ProvidesFile{dblfnote-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for dblfnote package]
10689 \let\autofootnoterule\relax
10690 \let\rightfootnoterule\relax
10691 \let\leftfootnoterule\relax
10692 \let\textwidthfootnoterule\relax
10693 \let\LRfootnoterule\relax
10694 \def\footnoterule{\kern-3\p@
10695 \hrule \@width \DFNcolumnwidth \kern 2.6\p@}%
10696 \AtBeginDocument{\let\dfn@latex@footnotetext\@footnotetext
10697 \let\@footnotetext\dfn@footnotetext}
10698 \long\def\dfn@LTRfootnotetext#1{{\setbox\dfn@boxa\vbox{
10699 \let\insert\dfn@gobble
10700 \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10701 \def\@makefnmark{\smash{\dfn@makefnmark}}
10702 \dfn@latex@LTRfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10703 \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10704 \ifdim\dfn@dima>z@\else
10705 \dfn@dima1sp\relax
10706 \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10707 \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10708 \ifvoid\dfn@ins\else
10709 \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10710 \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10711 \setbox\dfn@boxa\copy\dfn@ins
10712 \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10713 \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10714 \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10715 \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10716 \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10717 \AtBeginDocument{\let\dfn@latex@LTRfootnotetext\@LTRfootnotetext
10718 \let\@LTRfootnotetext\dfn@LTRfootnotetext}
10719 \long\def\dfn@RTLfootnotetext#1{{\setbox\dfn@boxa\vbox{
10720 \let\insert\dfn@gobble
10721 \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10722 \def\@makefnmark{\smash{\dfn@makefnmark}}
10723 \dfn@latex@RTLfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10724 \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10725 \ifdim\dfn@dima>z@\else
10726 \dfn@dima1sp\relax
10727 \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10728 \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10729 \ifvoid\dfn@ins\else
10730 \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10731 \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10732 \setbox\dfn@boxa\copy\dfn@ins

```





```

10733 \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10734 \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10735 \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10736 \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}}%
10737 \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}\@elt{\number\@tempdima}}}}
10738 \AtBeginDocument{\let\dfn@latex@RTLfootnotetext\@RTLfootnotetext
10739 \let\@RTLfootnotetext\dfn@RTLfootnotetext}
10740 \def\dfn@RTLmakecol{\ifvoid\footins\else
10741 \dfn@dima\ht\footins
10742 \@tempcnta\z@ \dfn@countins
10743 \@tempdima\z@ \let\@elt\dfn@elt@getht
10744 \dfn@list\@nil
10745 \ifdim\@tempdima=\z@\else
10746 \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10747 \global\setbox\dfn@ins\box\dfn@ins
10748 \@tempswatrue
10749 \ifdfn@trysingle
10750 \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10751 \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10752 \advance\@tempdima-\skip\footins
10753 \advance\@tempdima-\ht\dfn@boxa
10754 \ifdim\@tempdima<\z@\else \@tempswafalse
10755 \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10756 \footnoterule \unvbox\dfn@boxa}\fi\fi
10757 \if@tempswa
10758 \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10759 \global\setbox\footins\vbox{\hbox{%
10760 \hskip \DFNcolumnwidth
10761 \hskip\DFNcolumnsep
10762 \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10763 \unvbox\dfn@boxb\vss}\hss}
10764 \hskip -\textwidth
10765 \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10766 \vbox to\@tempdima{
10767 \setbox\@tempboxa\vbox{\footnoterule}
10768 \ifdfn@ruleboth \unvbox\@tempboxa
10769 \else \@tempdima\ht\@tempboxa
10770 \advance\@tempdima\dp\@tempboxa
10771 \vskip\@tempdima
10772 \prevdepth\dp\@tempboxa \fi
10773 \unvbox\dfn@boxa\vss}\fi\hss}
10774 \hskip \DFNcolumnsep
10775 \hskip \DFNcolumnwidth}}}\fi\fi
10776 \global\dfn@fnht\z@
10777 \ifx\dfn@list\@empty\else
10778 \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10779 \dfn@list \global\advance\dfn@fnht\dfn@dimb
10780 \let\@elt\relax
10781 \ifdim\dfn@dimb>\z@
10782 \xdef\dfn@list{\@elt{0}\@elt{\number\dfn@dimb}\dfn@list}%
10783 \insert\footins{\floatingpenalty\@MM
10784 \vbox to\dfn@dimb{}}\fi
10785 \ifdim\dfn@fnht>\@tempdima
10786 \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht

```



```

10787 \global\dfn@fnht\@tempdima
10788 \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10789 \xdef\dfn@afteroutput{\insert\footins{
10790 \floatingpenalty\@MM
10791 \vbox to\number\@tempdimb sp{}}}%
10792 \global\let\noexpand\dfn@afteroutput\relax}%
10793 \fi\fi
10794 \fi}%
10795 \let\footnoterule\relax \dfn@latex@makecol
10796 \let\footnoterule\dfn@footnoterule}
10797 \def\dfn@LTRmakecol{\ifvoid\footins\else
10798 \dfn@dima\ht\footins
10799 \@tempcnta\z@ \dfn@countins
10800 \@tempdima\z@ \let\@elt\dfn@elt@getht
10801 \dfn@list\@nil
10802 \ifdim\@tempdima=\z@\else
10803 \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10804 \global\setbox\dfn@ins\box\dfn@ins
10805 \@tempswatrue
10806 \ifdfn@trysingle
10807 \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10808 \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10809 \advance\@tempdima-\skip\footins
10810 \advance\@tempdima-\ht\dfn@boxa
10811 \ifdim\@tempdima<\z@\else \@tempswafalse
10812 \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10813 \footnoterule \unvbox\dfn@boxa}\fi\fi
10814 \if@tempswa
10815 \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10816 \global\setbox\footins\vbox{\hbox{%
10817 \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10818 \unvbox\dfn@boxb\vss}\hss}\hskip\DFNcolumnsep
10819 \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10820 \vbox to\@tempdima{
10821 \setbox\@tempboxa\vbox{\footnoterule}
10822 \ifdfn@ruleboth \unvbox\@tempboxa
10823 \else \@tempdima\ht\@tempboxa
10824 \advance\@tempdima\dp\@tempboxa
10825 \vskip\@tempdima
10826 \prevdepth\dp\@tempboxa \fi
10827 \unvbox\dfn@boxa\vss}\fi\hss}}}\fi\fi
10828 \global\dfn@fnht\z@
10829 \ifx\dfn@list\@empty\else
10830 \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10831 \dfn@list \global\advance\dfn@fnht\dfn@dimb
10832 \let\@elt\relax
10833 \ifdim\dfn@dimb>\z@
10834 \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10835 \insert\footins{\floatingpenalty\@MM
10836 \vbox to\dfn@dimb{}}\fi
10837 \ifdim\dfn@fnht>\@tempdima
10838 \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10839 \global\dfn@fnht\@tempdima
10840 \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%

```



```

10841 \xdef\dfn@afteroutput{\insert\footins{
10842 \floatingpenalty\@MM
10843 \vbox to\number\@tempdimb sp{}}}%
10844 \global\let\noexpand\dfn@afteroutput\relax}%
10845 \fi\fi
10846 \fi}%
10847 \let\footnoterule\relax \dfn@latex@makecol
10848 \let\footnoterule\dfn@footnoterule}
10849 \renewcommand{\dfn@makecol}{\if@RTLmain\dfn@RTLmakecol\else\dfn@LTRmakecol\fi}
10850 \newcommand{\RTLdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@RTLmakecol}}
10851 \newcommand{\LTRdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@LTRmakecol}}
10852 \DFNalwaysdouble

```

## 79 File diagbox-xetex-bidi.def

```

10853 \ProvidesFile{diagbox-xetex-bidi.def}[2017/12/30 v0.2 bidi adaptations for diagbox package f
10854 \bidi@patchcmd{\diagbox@double}{%
10855 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10856 }{\bidi@@diagbox@double@ii}{-}{-}
10857 \bidi@patchcmd{\diagbox@double}{%
10858 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
10859 }{\bidi@@diagbox@double@iii}{-}{-}
10860 \newcommand*{\bidi@@diagbox@double@ii}{%
10861 \if@RTL
10862 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepl}}}}
10863 \else
10864 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10865 \fi
10866 }
10867 \newcommand*{\bidi@@diagbox@double@iii}{%
10868 \if@RTL
10869 \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
10870 \else
10871 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
10872 \fi
10873 }
10874 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10875 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10876 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
10877 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10878 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10879 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
10880 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10881 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
10882 }{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{-}{-}
10883 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{%
10884 \if@RTL
10885 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepl}}}}
10886 \else
10887 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10888 \fi}
10889 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{%
10890 \if@RTL
10891 \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}

```



```

10892 \else
10893 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}%
10894 \fi}
10895 \let\diagbox@triple@setbox@SW\diagbox@triple@setbox@NW
10896 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
10897 \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}%
10898 }{\bidi@@diagbox@triple@setbox@SE@tabular@i}{-}{-}
10899 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
10900 \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
10901 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
10902 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
10903 \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
10904 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
10905 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@i}{%
10906 \if@RTL
10907 \begin{tabular}{@{}r@{\hspace{\diagbox@insepl}}}%
10908 \else
10909 \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}
10910 \fi
10911 }
10912 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{%
10913 \if@RTL
10914 \begin{tabular}{@{\hspace{\diagbox@insepr}}l@{}}
10915 \else
10916 \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
10917 \fi
10918 }
10919 \let\diagbox@triple@setbox@NE\diagbox@triple@setbox@SE
10920 \bidi@patchcmd{\diagbox@double@pict@SE}{%
10921 \diagbox@setlinecolor
10922 \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)%
10923 }{%
10924 {\diagbox@setlinecolor
10925 \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)}%
10926 }{-}{-}
10927 \let\diagbox@double@pict@NW\diagbox@double@pict@SE
10928 \bidi@patchcmd{\diagbox@double@pict@NE}{%
10929 \diagbox@setlinecolor
10930 \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)%
10931 }{%
10932 {\diagbox@setlinecolor
10933 \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)}%
10934 }{-}{-}
10935 \let\diagbox@double@pict@SW\diagbox@double@pict@NE
10936 \bidi@patchcmd{\diagbox@triple@pict@NW}{%
10937 \diagbox@setlinecolor
10938 \Line(0,\yym)(\x,0)
10939 \Line(\xm,\y)(\x,0)%
10940 }{%
10941 {\diagbox@setlinecolor
10942 \Line(0,\yym)(\x,0)
10943 \Line(\xm,\y)(\x,0)}%
10944 }{-}{-}
10945 \bidi@patchcmd{\diagbox@triple@pict@NE}{%

```



```

10946 \diagbox@setlinecolor
10947 \Line(0,0)(\xxm,\y)
10948 \Line(0,0)(\x,\yym)%
10949 }{%
10950 {\diagbox@setlinecolor
10951 \Line(0,0)(\xxm,\y)
10952 \Line(0,0)(\x,\yym)}%
10953 }{}{}
10954 \bidi@patchcmd{\diagbox@triple@pict@SW}{%
10955 \diagbox@setlinecolor
10956 \Line(0,\ym)(\x,\y)
10957 \Line(\xm,0)(\x,\y)%
10958 }{%
10959 {\diagbox@setlinecolor
10960 \Line(0,\ym)(\x,\y)
10961 \Line(\xm,0)(\x,\y)}%
10962 }{}{}
10963 \bidi@patchcmd{\diagbox@triple@pict@SE}{%
10964 \diagbox@setlinecolor
10965 \Line(0,\y)(\xxm,0)
10966 \Line(0,\y)(\x,\ym)%
10967 }{%
10968 {\diagbox@setlinecolor
10969 \Line(0,\y)(\xxm,0)
10970 \Line(0,\y)(\x,\ym)}%
10971 }{}{}

```

## 80 File draftwatermark-xetex-bidi.def

```

10972 \ProvidesFile{draftwatermark-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for draftwater
10973 \renewcommand\SetWatermarkText[1]{%
10974 \def\sc@wm@text{\if@RTLmain\beginR\fi#1\if@RTLmain\endR\fi}}

```

## 81 File eso-pic-xetex-bidi.def

```

10975 \ProvidesFile{eso-pic-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for eso-pic package f
10976 \renewcommand\AtPageLowerLeft[1]{\AtPageUpperLeft{%
10977 \put(\if@RTLmain\paperwidth\else 0\fi,-\paperheight){#1}}}
10978
10979 \ESO@isMEMOIR{%
10980 \renewcommand\AtTextUpperLeft[1]{%
10981 \begingroup
10982 \ifodd\c@page
10983 \if@RTLmain
10984 \ESO@tempdima=\paperwidth
10985 \advance\ESO@tempdima-\textwidth
10986 \advance\ESO@tempdima-\spinemargin
10987 \else
10988 \ESO@tempdima=\spinemargin
10989 \fi
10990 \else
10991 \if@RTLmain
10992 \ESO@tempdima=\spinemargin
10993 \else

```



```

10994         \ESO@tempdima=\paperwidth
10995         \advance\ESO@tempdima-\textwidth
10996         \advance\ESO@tempdima-\spinemargin
10997         \fi
10998     \fi
10999     \ESO@tempdimb=-\uppermargin
11000     \AtPageUpperLeft{%
11001         \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11002     }%
11003 \endgroup
11004 }
11005 }{%
11006 \renewcommand\AtTextUpperLeft[1]{%
11007     \begingroup
11008         \ESO@tempdima=1in\relax
11009         \if@twoside
11010             \ifodd\c@page
11011                 \if@RTLmain
11012                     \advance\ESO@tempdima\evensidemargin
11013                 \else
11014                     \advance\ESO@tempdima\oddsidemargin
11015                 \fi
11016             \else
11017                 \if@RTLmain
11018                     \advance\ESO@tempdima\oddsidemargin
11019                 \else
11020                     \advance\ESO@tempdima\evensidemargin
11021                 \fi
11022             \fi
11023             \advance\ESO@tempdima\oddsidemargin
11024             \fi
11025             \ESO@tempdimb=-1in\relax
11026             \advance\ESO@tempdimb-\topmargin
11027             \advance\ESO@tempdimb-\headheight
11028             \advance\ESO@tempdimb-\headsep
11029             \AtPageUpperLeft{%
11030                 \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11031             }%
11032         }%
11033     \endgroup
11034 }
11035 }

```

## 82 File empheq-xetex-bidi.def

```

11036 \ProvidesFile{empheq-xetex-bidi.def}[2018/01/08 v0.2 bidi adaptations for empheq package for
11037 \MHInternalSyntaxOn
11038 \def\EQ_tag_plus_endmark:{%
11039     \iftagsleft@
11040         \gdef\maketag@@@##1{%
11041             \hfuzz\displaywidth
11042             \if@RTL\makebox[\widthof{##1}][r]{%
11043                 \hbox to \displaywidth{\m@th\normalfont##1\hss
11044                     \raisebox{-\dp\EQ_mathdisplay_box

```



```

11045         -\depthof{\EQ_outerbox: {}}
11046         {\PotEndMark{\hss}}}}
11047     \else\makebox[\widthof{##1}][l]{%
11048         \hbox to \displaywidth{\m@th\normalfont##1\hss
11049         \raisebox{-\dp\EQ_mathdisplay_box
11050         -\depthof{\EQ_outerbox: {}}
11051         {\PotEndMark{\hss}}}\fi}%
11052 \MH_else:
11053     \gdef\maketag@@@##1{%
11054         \hbox{\m@th\normalfont##1\llap{\hss\PotEndMark{%
11055             \settoheight{\@tempdima}{\@nameuse{\InTheoType Symbol}}}%
11056             \MH_addtolength:dn \@tempdima
11057             {\g_EQ_bottomtag_depth_dim+\mintagvsep}
11058             \setlength{\@tempdimb}
11059             {\g_EQ_bottomrow_depth_dim+\depthof{\EQ_outerbox: {}}
11060             +\depthof{\EQ_innerbox: {}}}}
11061             \MH_if_dim:w \@tempdima>\@tempdimb
11062             \MH_setlength:dn \@tempdima{-\dp\EQ_mathdisplay_box
11063             -\@tempdima+\g_EQ_bottomrow_depth_dim}
11064             \addtolength{\@tempdima}{\depthof{\EQ_innerbox: {}}}%
11065             \def\EQ_next:{\raisebox{\@tempdima}}}%
11066     \MH_else:
11067     \def\EQ_next:{
11068         \raisebox{-\dp\EQ_mathdisplay_box
11069         -\depthof{\EQ_outerbox: {}}}%
11070     \MH_fi:\EQ_next:}}}%
11071 \MH_fi:}
11072 \def\EQ_post_process:{%
11073 \EQ_initialize:
11074 \EQ_begin_equation:
11075 \MH_if_boolean:nT {outer_mult}{
11076     \setkeys{MT_options_name:}{
11077         firstline-afterskip=0pt,
11078         lastline-preskip=0pt,
11079         multlined-width=0pt,
11080     }
11081     \ifodd \l_EQ_alignmentmode_int
11082     \setkeys{MT_options_name:}{multlined-pos=b}
11083     \MH_else:
11084     \setkeys{MT_options_name:}{multlined-pos=t}
11085     \MH_fi:
11086     \g@addto@macro\EQ_complete_mathdisplay:{
11087         \begin{MTmultlined}\relax
11088     }
11089     \g@addto@macro\EQ_complete_mathdisplay:\EQ_mathbody:
11090     \MH_if_boolean:nT {outer_mult}{
11091         \g@addto@macro\EQ_complete_mathdisplay:{\end{MTmultlined}}
11092     }
11093 \EQ_end_equation:
11094 \edef\EQ_hyperref_link_fint{\number\Hy@linkcounter}
11095 \savecounters@
11096 \EQ_typeset_tags:
11097 \edef\l_EQ_equation_fint{\number\c@equation}
11098 \restorecounters@

```



```

111099 \Hy@linkcounter=\EQ_hyperref_link_fint
111100 \settowidth\l_EQ_totalwidth_dim{%
111101   $\EQ_left_side:\EQ_innerbox:{}\EQ_right_side:$}%
111102 \MH_if_boolean:nTF {outer_mult}
111103   { \def\EQ_next:{_mult} }
111104   { \def\EQ_next:{} }
111105 \@nameuse{EQ_modify_linewidth_
111106   \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
111107 \EQ_typeset_display:
111108 \@nameuse{EQ_find_displaywidth_
111109   \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
111110 \MH_addtolength:dn
111111   \l_EQ_totalwidth_dim\l_EQ_displaywidth_dim}
111112 \savebox\EQ_mathdisplay_box[\l_EQ_totalwidth_dim][c]{%
111113   $\EQ_left_side:
111114   \EQ_innerbox:{%
111115     \MH_if_case:w \l_EQ_alignmentmode_int\MH_or:
111116     \makebox[\l_EQ_displaywidth_dim][c]
111117     {\usebox{\EQ_mathdisplay_box}}}%
111118   \MH_or:
111119     \makebox[\l_EQ_displaywidth_dim][c]
111120     {\usebox{\EQ_mathdisplay_box}}}%
111121   \MH_or:
111122     \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
111123       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
111124         \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
111125         \kern-\@mathmargin
111126         \MH_fi:
111127       \MH_fi:
111128       \usebox{\EQ_mathdisplay_box}}%
111129     \else\makebox[\l_EQ_displaywidth_dim][l]{%
111130       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
111131       \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
111132       \kern-\@mathmargin
111133       \MH_fi:
111134       \MH_fi:
111135       \usebox{\EQ_mathdisplay_box}}\fi%
111136   \MH_or:
111137     \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
111138       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
111139       \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
111140       \kern-\@mathmargin
111141       \MH_fi:
111142       \MH_fi:
111143       \usebox{\EQ_mathdisplay_box}}
111144     \else\makebox[\l_EQ_displaywidth_dim][l]{%
111145       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
111146       \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
111147       \kern-\@mathmargin
111148       \MH_fi:
111149       \MH_fi:
111150       \usebox{\EQ_mathdisplay_box}}\fi%
111151   \MH_fi:}%
111152   \EQ_right_side:$}%

```





```

11153 \begin{AmSequation*}
11154 \@nameuse{EQ_place_display_
11155 \romannumeral\l_EQ_equationtype_int\EQ_next: :}
11156 \MH_if_dim:w \g_EQ_widesttag_dim>\z@
11157 \MH_set_boolean_T:n {show_manual_tags}
11158 \MH_if_case:w \l_EQ_alignmentmode_int
11159 \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#1
11160 \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#2
11161 \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#3
11162 \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#4
11163 \MH_fi:
11164 \MH_fi:
11165 \end{AmSequation*}
11166 \global\c@equation=\l_EQ_equation_fint\relax
11167 }
11168 \AtBeginDocument{%
11169 \@ifpackageloaded{fancybox}{%
11170 \@ifpackageloaded{color}{\definecolor{shadowcolor}{rgb}{0,0,0}}%
11171 {\renewcommand*\textcolor[2]{\normalcolor{#2}}}%
11172 \renewcommand*\shadowbox{%
11173 \@ifstar{\MH_set_boolean_T:n {shadowbox_star}
11174 \VerbBox\EQ_shadowbox:n}
11175 {\MH_set_boolean_F:n {shadowbox_star}
11176 \VerbBox\EQ_shadowbox:n}}
11177 \def\EQ_shadowbox:n #1{%
11178 \sbox{\z@}{\fbox{#1}}%
11179 \MH_if_boolean:nTF {shadowbox_star}{
11180 \MH_setlength:dn \@tempdima{\z@}%
11181 }{
11182 \MH_setlength:dn \@tempdima{\dp\z@+\shadowsize}%
11183 }
11184 \raisebox{\@tempdima}{%
11185 \if@RTL\makebox[\z@][r]{%
11186 \kern\shadowsize \textcolor{shadowcolor}{%
11187 \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
11188 }%
11189 \else\makebox[\z@][l]{%
11190 \kern\shadowsize \textcolor{shadowcolor}{%
11191 \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
11192 }\fi%
11193 \usebox\z@\textcolor{shadowcolor}{%
11194 \rule[-\dp\z@-\shadowsize]{\shadowsize}{\ht\z@+\dp\z@}}}%
11195 }{}%
11196 }
11197 \MHInternalSyntaxOff

```

## 83 File extarticle-xetex-bidi.def

```

11198 \ProvidesFile{extarticle-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extarticle cla
11199 \renewcommand*\l@section[2]{%
11200 \ifnum \c@tocdepth >\z@
11201 \addpenalty\@secpenalty
11202 \addvspace{1.0em \@plus\p@}%
11203 \setlength\@tempdima{1.5em}%

```



```

11204 \beginngroup
11205 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11206 \parfillskip -\@pnumwidth
11207 \leavevmode \bfseries
11208 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
11209 \hskip -\if@RTL\rightskip\else\leftskip\fi
11210 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
11211 \endgroup
11212 \fi}
11213 \renewcommand*\l@part[2]{%
11214 \ifnum \c@tocdepth >-2\relax
11215 \addpenalty\@secpenalty
11216 \addvspace{2.25em \@plus\p@}%
11217 \beginngroup
11218 \setlength\@tempdima{3em}%
11219 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11220 \parfillskip -\@pnumwidth
11221 {\leavevmode
11222 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11223 \nobreak
11224 \endgroup
11225 \fi}
11226 \def\@part[#1]#2{%
11227 \ifnum \c@secnumdepth >\m@ne
11228 \refstepcounter{part}%
11229 \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
11230 \else
11231 \addcontentsline{toc}{part}{#1}%
11232 \fi
11233 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11234 \interlinepenalty \@M
11235 \normalfont
11236 \ifnum \c@secnumdepth >\m@ne
11237 \Large\bfseries \partname-\thepart
11238 \par\nobreak
11239 \fi
11240 \huge \bfseries #2%
11241 \markboth{}{}\par}%
11242 \nobreak
11243 \vskip 3ex
11244 \@afterheading}
11245 \def\@spart#1{%
11246 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11247 \interlinepenalty \@M
11248 \normalfont
11249 \huge \bfseries #1\par}%
11250 \nobreak
11251 \vskip 3ex
11252 \@afterheading}
11253 \renewenvironment{thebibliography}[1]
11254 {\section*{\refname
11255 \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}}%
11256 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11257 \bidi@thebibliography@font@hook%

```



```

11258     \list{\@biblabel{\@arabic\c@enumiv}}%
11259     {\settowidth\labelwidth{\@biblabel{#1}}%
11260     \leftmargin\labelwidth
11261     \advance\leftmargin\labelsep
11262     \@openbib@code
11263     \usecounter{enumiv}%
11264     \let\p@enumiv\@empty
11265     \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11266     \sloppy\clubpenalty4000\widowpenalty4000%
11267     \sfcode`. \m}
11268     {\def\@noitemerr
11269     {\@latex@warning{Empty `thebibliography' environment}}}%
11270     \endlist}
11271 \renewcommand\left@footnoterule{%
11272     \kern-3\p@
11273     \hrule\@width.4\columnwidth
11274     \kern2.6\p@}
11275 \renewcommand\right@footnoterule{%
11276     \kern-3\p@
11277     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11278     \kern2.6\p@}
11279     \if@titlepage
11280     \renewcommand\maketitle{\begin{titlepage}%
11281     \let\footnotesize\small
11282     \let\right@footnoterule\relax
11283     \let\left@footnoterule\relax
11284     \let\textwidth\footnoterule\relax
11285     \let \footnote \thanks
11286     \null\vfil
11287     \vskip 60\p@
11288     \begin{center}%
11289     {\LARGE \@title \par}%
11290     \vskip 3em%
11291     {\large
11292     \lineskip .75em%
11293     \begin{tabular}[t]{c}%
11294     \@author
11295     \end{tabular}\par}%
11296     \vskip 1.5em%
11297     {\large \@date \par}%           % Set date in \large size.
11298     \end{center}\par
11299     \@thanks
11300     \vfil\null
11301     \end{titlepage}}%
11302     \setcounter{footnote}{0}%
11303     \global\let\thanks\relax
11304     \global\let\maketitle\relax
11305     \global\let\@thanks\@empty
11306     \global\let\@author\@empty
11307     \global\let\@date\@empty
11308     \global\let\@title\@empty
11309     \global\let\title\relax
11310     \global\let\author\relax
11311     \global\let\date\relax

```



```

11312 \global\let\and\relax
11313 }
11314 \else
11315 \renewcommand\maketitle{\par
11316 \begin{group}
11317 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11318 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11319 \long\def\@makefntext##1{\parindent 1em\noindent
11320 \hbox{#1.8em}%
11321 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11322 \if@twocolumn
11323 \ifnum \col@number=\@ne
11324 \@maketitle
11325 \else
11326 \twocolumn[\@maketitle]%
11327 \fi
11328 \else
11329 \newpage
11330 \global\@topnum\z@ % Prevents figures from going at top of page.
11331 \@maketitle
11332 \fi
11333 \thispagestyle{plain}\@thanks
11334 \end{group}
11335 \setcounter{footnote}{0}%
11336 \global\let\thanks\relax
11337 \global\let\maketitle\relax
11338 \global\let\@maketitle\relax
11339 \global\let\@thanks\@empty
11340 \global\let\@author\@empty
11341 \global\let\@date\@empty
11342 \global\let\@title\@empty
11343 \global\let\title\relax
11344 \global\let\author\relax
11345 \global\let\date\relax
11346 \global\let\and\relax
11347 }
11348 \def\@maketitle{%
11349 \newpage
11350 \null
11351 \vskip 2em%
11352 \begin{center}%
11353 \let \footnote \thanks
11354 {\LARGE \@title \par}%
11355 \vskip 1.5em%
11356 {\large
11357 \lineskip .5em%
11358 \begin{tabular}[t]{c}%
11359 \@author
11360 \end{tabular}\par}%
11361 \vskip 1em%
11362 {\large \@date}%
11363 \end{center}%
11364 \par
11365 \vskip 1.5em}

```



```

11366 \fi
11367 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@section}
11368 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11369 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11370 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}%%

```

## 84 File extbook-xetex-bidi.def

```

11371 \ProvidesFile{extbook-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extbook class for
11372 \if@titlepage
11373 \renewcommand\maketitle{\begin{titlepage}%
11374 \let\footnotesize\small
11375 \let\right@footnoterule\relax
11376 \let\left@footnoterule\relax
11377 \let\textwidth\footnoterule\relax
11378 \let\footnote\thanks
11379 \let\LTRfootnote\LTRthanks
11380 \let\RTLfootnote\RTLthanks
11381 \null\vfil
11382 \vskip 60\p@
11383 \begin{center}%
11384 {\LARGE \@title \par}%
11385 \vskip 3em%
11386 {\large
11387 \lineskip .75em%
11388 \begin{tabular}[t]{c}%
11389 \@author
11390 \end{tabular}\par}%
11391 \vskip 1.5em%
11392 {\large \@date \par}% % Set date in \large size.
11393 \end{center}\par
11394 \@thanks
11395 \vfil\null
11396 \end{titlepage}%
11397 \setcounter{footnote}{0}%
11398 \global\let\thanks\relax
11399 \global\let\LTRthanks\relax
11400 \global\let\RTLthanks\relax
11401 \global\let\maketitle\relax
11402 \global\let\@thanks\@empty
11403 \global\let\@author\@empty
11404 \global\let\@date\@empty
11405 \global\let\@title\@empty
11406 \global\let\title\relax
11407 \global\let\author\relax
11408 \global\let\date\relax
11409 \global\let\and\relax
11410 }
11411 \else
11412 \renewcommand\maketitle{\par
11413 \begingroup
11414 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11415 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11416 \long\def\@makefntext##1{\parindent 1em\noindent

```



```

11417         \hb@xt@1.8em{%
11418             \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11419     \if@twocolumn
11420         \ifnum \col@number=\@ne
11421             \@maketitle
11422         \else
11423             \twocolumn[\@maketitle]%
11424         \fi
11425     \else
11426         \newpage
11427         \global\@topnum\z@    % Prevents figures from going at top of page.
11428         \@maketitle
11429     \fi
11430     \thispagestyle{plain}\@thanks
11431 \endgroup
11432 \setcounter{footnote}{0}%
11433 \global\let\thanks\relax
11434 \global\let\LTRthanks\relax
11435 \global\let\RTLthanks\relax
11436 \global\let\maketitle\relax
11437 \global\let\@maketitle\relax
11438 \global\let\@thanks\@empty
11439 \global\let\@author\@empty
11440 \global\let\@date\@empty
11441 \global\let\@title\@empty
11442 \global\let\title\relax
11443 \global\let\author\relax
11444 \global\let\date\relax
11445 \global\let\and\relax
11446 }
11447 \def\@maketitle{%
11448     \newpage
11449     \null
11450     \vskip 2em%
11451     \begin{center}%
11452         \let \footnote \thanks
11453         \let \LTRfootnote \LTRthanks
11454         \let \RTLfootnote \RTLthanks
11455         {\LARGE \@title \par}%
11456         \vskip 1.5em%
11457         {\large
11458             \lineskip .5em%
11459             \begin{tabular}[t]{c}%
11460                 \@author
11461             \end{tabular}\par}%
11462         \vskip 1em%
11463         {\large \@date}%
11464     \end{center}%
11465     \par
11466     \vskip 1.5em}
11467 \fi
11468 \renewcommand*\l@part[2]{%
11469     \ifnum \c@tocdepth >-2\relax
11470         \addpenalty{-\@highpenalty}%

```



```

11471 \addvspace{2.25em \@plus\p@}%
11472 \begingroup
11473 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11474 \parfillskip -\@pnumwidth
11475 {\leavevmode
11476 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11477 \nobreak
11478 \global\@nobreaktrue
11479 \everypar{\global\@nobreakfalse\everypar{}}%
11480 \endgroup
11481 \fi}
11482 \renewcommand\theequation
11483 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
11484 \renewcommand \thefigure
11485 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
11486 \renewcommand \thetable
11487 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
11488 \renewcommand \thechapter {\@arabic\c@chapter}
11489 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
11490 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
11491 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
11492 \renewcommand \theparagraph {\thesubsubsection \@SepMark\@arabic\c@paragraph}
11493 \renewcommand \thesubparagraph {\theparagraph \@SepMark\@arabic\c@subparagraph}
11494 \def\@makechapterhead#1{%
11495 \vspace*{50\p@}%
11496 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
11497 \ifnum \c@secnumdepth >\m@ne
11498 \if@mainmatter
11499 \huge\bfseries \@chapapp\space \thechapter
11500 \par\nobreak
11501 \vskip 20\p@
11502 \fi
11503 \fi
11504 \interlinepenalty\@M
11505 \Huge \bfseries #1\par\nobreak
11506 \vskip 40\p@
11507 }}
11508
11509 \def\@makeschapterhead#1{%
11510 \vspace*{50\p@}%
11511 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11512 \normalfont
11513 \interlinepenalty\@M
11514 \Huge \bfseries #1\par\nobreak
11515 \vskip 40\p@
11516 }}
11517 \renewcommand\backmatter{%
11518 \if@openright
11519 \cleardoublepage
11520 \else
11521 \clearpage
11522 \fi
11523 \@mainmatterfalse}
11524 \renewenvironment{thebibliography}[1]

```



```

11525 {\chapter*{\bibname
11526 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
11527 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11528 \bidi@thebibliography@font@hook%
11529 \list{\@biblabel{\@arabic\c@enumiv}}%
11530 {\settowidth\labelwidth{\@biblabel{#1}}%
11531 \leftmargin\labelwidth
11532 \advance\leftmargin\labelsep
11533 \openbib@code
11534 \usecounter{enumiv}%
11535 \let\p@enumiv\@empty
11536 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11537 \sloppy
11538 \clubpenalty4000
11539 \@clubpenalty \clubpenalty
11540 \widowpenalty4000%
11541 \sfcode\.\@m}
11542 {\def\@noitemerr
11543 {\@latex@warning{Empty `thebibliography' environment}}}%
11544 \endlist}

```

## 85 File extletter-xetex-bidi.def

```

11545 \ProvidesFile{extletter-xetex-bidi.def}[2015/11/14 v0.2 bidi adaptations for extletter class]
11546 \renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
11547 \thispagestyle{firstpage}%
11548 {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
11549 \else % home address
11550 \thispagestyle{empty}%
11551 {\if@RTL\raggedright\begin{tabular}{r@{}}\else\raggedleft\begin{tabular}{l@{}}\fi\ignore
11552 \fromaddress \*[2\parskip]%
11553 \@date \end{tabular}\par}%
11554 \fi
11555 \vspace{2\parskip}%
11556 {\if@RTL\raggedleft\else\raggedright\fi \toname \[2\parskip]%
11557 \vspace{2\parskip}%
11558 #1\par\nobreak}
11559 \renewcommand{\closing}[1]{\par\nobreak\vspace{\parskip}%
11560 \stopbreaks
11561 \noindent
11562 \ifx\@empty\fromaddress\else
11563 \hspace*{\longindentation}\fi
11564 \parbox{\indentedwidth}{\if@RTL\raggedleft\else\raggedright\fi
11565 \ignorespaces #1\[\[6\medskipamount]%
11566 \ifx\@empty\fromsig
11567 \fromname
11568 \else \fromsig \fi\strut}%
11569 \par}
11570 \renewcommand\left@footnoterule{%
11571 \kern-\p@
11572 \hrule \@width .4\columnwidth
11573 \kern .6\p@}
11574 \renewcommand\right@footnoterule{%
11575 \kern-\p@

```





```

11576 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11577 \kern .6\p@}

```

## 86 File extrafootnotefeatures-xetex-bidi.def

```

11578 \ProvidesFile{extrafootnotefeatures-xetex-bidi.def}[2022/07/14 v2.4 bidi extra footnote feat
11579 \newdimen\bidi@columnwidth
11580 \def\bidi@floathook{%
11581 \bidi@columnwidth\columnwidth
11582 }
11583 \newif\if@bidi@void@@mpfootins
11584 \newcommand*{\@bidi@before@Hy@hyperfootnotes}{%
11585 \if@bidi@csundef{ifHy@hyperfootnotes}{}{%
11586 \if@bidi@csundef{HLTR@@LTRfootnotetext}{}{%
11587 \ifHy@hyperfootnotes
11588 \let\@H@@footnotetext\@footnotetext
11589 \let\@HLTR@@LTRfootnotetext\@LTRfootnotetext
11590 \let\@HRTL@@RTLfootnotetext\@RTLfootnotetext
11591 \let\@H@@mpfootnotetext\@mpfootnotetext
11592 \let\@HLTR@@mpLTRfootnotetext\@mpLTRfootnotetext
11593 \let\@HRTL@@mpRTLfootnotetext\@mpRTLfootnotetext
11594 \fi
11595 }%
11596 }%
11597 }
11598 \newcommand*{\@bidi@after@Hy@hyperfootnotes}{%
11599 \if@bidi@csundef{ifHy@hyperfootnotes}{}{%
11600 \if@bidi@csundef{HLTR@@LTRfootnotetext}{}{%
11601 \ifHy@hyperfootnotes
11602 \let\H@@footnotetext\@footnotetext
11603 \let\@footnotetext\@H@@footnotetext
11604 \let\HLTR@@LTRfootnotetext\@LTRfootnotetext
11605 \let\@LTRfootnotetext\@HLTR@@LTRfootnotetext
11606 \let\HRTL@@RTLfootnotetext\@RTLfootnotetext
11607 \let\@RTLfootnotetext\@HRTL@@RTLfootnotetext
11608 \let\H@@mpfootnotetext\@mpfootnotetext
11609 \let\@mpfootnotetext\@H@@mpfootnotetext
11610 \let\HLTR@@mpLTRfootnotetext\@mpLTRfootnotetext
11611 \let\@mpLTRfootnotetext\@HLTR@@mpLTRfootnotetext
11612 \let\HRTL@@mpRTLfootnotetext\@mpRTLfootnotetext
11613 \let\@mpRTLfootnotetext\@HRTL@@mpRTLfootnotetext
11614 \fi
11615 }%
11616 }%
11617 }
11618 \let\autofooterule\relax
11619 \let\rightfootnoterule\relax
11620 \let\leftfootnoterule\relax
11621 \let\textwidthfootnoterule\relax
11622 \let\LRfootnoterule\relax
11623 \def\footnoterule{\kern-3\p@
11624 \hrule \@width \columnwidth \kern 2.6\p@}
11625 \newcommand{\@preamnormalfmt}{%
11626 \parindent 1em%

```



```

11627 \noindent
11628 }
11629 \newcommand{\@normalfootfmt}[1]{%
11630   \@preamnormalfmt
11631   \footfootmark
11632   \rule\z@\footnotesep\ignorespaces{\foottextfont #1}%
11633   \@finalstrut\strutbox
11634 }
11635 \newcommand{\@normalRTLfootfmt}[1]{%
11636   \@preamnormalfmt
11637   \RTLfootfootmark
11638   \rule\z@\footnotesep\ignorespaces{\RTLfoottextfont #1}%
11639   \@finalstrut\strutbox
11640 }
11641 \newcommand{\@normalLTRfootfmt}[1]{%
11642   \@preamnormalfmt
11643   \LTRfootfootmark
11644   \rule\z@\footnotesep\ignorespaces{\LTRfoottextfont #1}%
11645   \@finalstrut\strutbox
11646 }
11647 \renewcommand{\@footnotetext}[1]{%
11648   \insert\footins{%
11649     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11650     \def\baselinestretch{\m@m@footnote@spacing}%
11651     \reset@font
11652     \foottextfont
11653     \@preamfntext
11654     \hsize\columnwidth
11655     \protected@edef\@currentlabel{%
11656       \csname p@footnote\endcsname\@thefnmark}%
11657     \color@begingroup
11658       \@normalfootfmt{#1}%
11659     \color@endgroup}%
11660     \m@mmf@prepare}
11661 \renewcommand{\@RTLfootnotetext}[1]{%
11662   \insert\footins{%
11663     \@RTLtrue%
11664     \def\baselinestretch{\m@m@footnote@spacing}%
11665     \reset@font
11666     \RTLfoottextfont
11667     \@preamfntext
11668     \hsize\columnwidth
11669     \protected@edef\@currentlabel{%
11670       \csname p@footnote\endcsname\@thefnmark}%
11671     \color@begingroup
11672       \@normalRTLfootfmt{#1}%
11673     \color@endgroup}%
11674     \m@mmf@prepare}
11675 \renewcommand{\@LTRfootnotetext}[1]{%
11676   \insert\footins{%
11677     \@RTLfalse%
11678     \def\baselinestretch{\m@m@footnote@spacing}%
11679     \reset@font
11680     \LTRfoottextfont

```



```

11681 \preamfntext
11682 \hsize\columnwidth
11683 \protected@edef\@currentlabel{%
11684   \csname p@footnote\endcsname\@thefnmark}%
11685 \color@begingroup
11686   \@normalLTRfootfmt{#1}%
11687 \color@endgroup}%
11688 \m@mmlf@prepare}
11689 \renewcommand{\@mpfootnotetext}[1]{%
11690   \global\setbox\@mpfootins\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11691     \unvbox\@mpfootins
11692     \def\baselinestretch{\m@m@footnote@spacing}%
11693     \reset@font%
11694     \foottextfont \hsize\columnwidth \@parboxrestore
11695     \protected@edef\@currentlabel{%
11696       \csname p@mpfootnote\endcsname\@thefnmark}%
11697     \color@begingroup
11698       \@normalfootfmt{#1}%
11699     \color@endgroup}}
11700 \renewcommand{\@mpLTRfootnotetext}[1]{%
11701   \global\setbox\@mpfootins\vbox{\@RTLfalse%
11702     \unvbox\@mpfootins
11703     \def\baselinestretch{\m@m@footnote@spacing}%
11704     \reset@font%
11705     \LTRfoottextfont \hsize\columnwidth \@parboxrestore
11706     \protected@edef\@currentlabel{%
11707       \csname p@mpfootnote\endcsname\@thefnmark}%
11708     \color@begingroup
11709       \@normalLTRfootfmt{#1}%
11710     \color@endgroup}}
11711 \renewcommand{\@mpRTLfootnotetext}[1]{%
11712   \global\setbox\@mpfootins\vbox{\@RTLtrue%
11713     \unvbox\@mpfootins
11714     \def\baselinestretch{\m@m@footnote@spacing}%
11715     \reset@font%
11716     \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11717     \protected@edef\@currentlabel{%
11718       \csname p@mpfootnote\endcsname\@thefnmark}%
11719     \color@begingroup
11720       \@normalRTLfootfmt{#1}%
11721     \color@endgroup}}
11722 \let\m@mold@footnotetext\@footnotetext
11723 \let\m@mold@LTRfootnotetext\@LTRfootnotetext
11724 \let\m@mold@RTLfootnotetext\@RTLfootnotetext
11725 \let\m@mold@mpfootnotetext\@mpfootnotetext
11726 \let\m@mold@mpLTRfootnotetext\@mpLTRfootnotetext
11727 \let\m@mold@mpRTLfootnotetext\@mpRTLfootnotetext
11728 \bidi@ensure@newcommand{\normalfootnotes}{%
11729   \@bidi@before@Hy@hyperfootnotes
11730   \let\@footnotetext\m@mold@footnotetext
11731   \let\@LTRfootnotetext\m@mold@LTRfootnotetext
11732   \let\@RTLfootnotetext\m@mold@RTLfootnotetext
11733   \let\@mpfootnotetext\m@mold@mpfootnotetext
11734   \let\@mpLTRfootnotetext\m@mold@mpLTRfootnotetext

```



```

11735 \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
11736 \@bidi@after@Hy@hyperfootnotes
11737 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11738 }
11739 \@ifclassloaded{memoir}{\let\plainfootnotes\normalfootnotes}{%
11740 \bidi@ensure@newcommand*\setSingleSpace{1}{%
11741 \def\m@m@singlespace{#1}%
11742 \def\m@m@footnote@spacing{#1}%
11743 \def\m@m@float@spacing{#1} %
11744 }
11745 \setSingleSpace{1}
11746 \bidi@ensure@newcommand*\multiplefootnotemarker{3sp}
11747 \bidi@ensure@newcommand*\m@m@mf@prepare{%
11748 \kern-\multiplefootnotemarker
11749 \kern\multiplefootnotemarker\relax}
11750 \bidi@ensure@newlength{\footmarkwidth}
11751 \bidi@ensure@newcommand*\footmarkstyle{1}{\def\footscript##1{#1}}
11752 \bidi@ensure@newcommand*\LTRfootmarkstyle{1}{\def\LTRfootscript##1{#1}}
11753 \bidi@ensure@newcommand*\RTLfootmarkstyle{1}{\def\RTLfootscript##1{#1}}
11754 \bidi@ensure@newcommand{\footfootmark}{%
11755 \ifdim\footmarkwidth < \z@
11756 \llap{\hb@xt@ -\footmarkwidth{%
11757 \hss\normalfont\footscript{\@thefnmark}}%
11758 \hspace*{-\footmarkwidth}}}%
11759 \else
11760 \ifdim\footmarkwidth = \z@
11761 {\normalfont\footscript{\@thefnmark}}%
11762 \else
11763 \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\@thefnmark}}%
11764 \fi
11765 \fi}
11766 \bidi@ensure@newcommand{\LTRfootfootmark}{%
11767 \ifdim\footmarkwidth < \z@
11768 \llap{\hb@xt@ -\footmarkwidth{%
11769 \hss\normalfont\LTRfootscript{\@thefnmark}}%
11770 \hspace*{-\footmarkwidth}}}%
11771 \else
11772 \ifdim\footmarkwidth = \z@
11773 {\normalfont\LTRfootscript{\@thefnmark}}%
11774 \else
11775 \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\@thefnmark}}%
11776 \fi
11777 \fi}
11778 \bidi@ensure@newcommand{\RTLfootfootmark}{%
11779 \ifdim\footmarkwidth < \z@
11780 \llap{\hb@xt@ -\footmarkwidth{%
11781 \hss\normalfont\RTLfootscript{\@thefnmark}}%
11782 \hspace*{-\footmarkwidth}}}%
11783 \else
11784 \ifdim\footmarkwidth = \z@
11785 {\normalfont\RTLfootscript{\@thefnmark}}%
11786 \else
11787 \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\@thefnmark}}%
11788 \fi

```



```

11789 \fi}
11790 \footmarkstyle{\textsuperscript{#1}}
11791 \LTRfootmarkstyle{\textsuperscript{#1}}
11792 \RTLfootmarkstyle{\textsuperscript{#1}}
11793 \newcommand*{\bidi@normal@footmarkwidth}{%
11794 \setlength{\footmarkwidth}{1em plus.3em minus.3em}%
11795 }
11796 \newcommand*{\bidi@star@footmarkwidth}{%
11797 \setlength{\footmarkwidth}{0em plus.3em minus.3em}%
11798 }
11799 \bidi@normal@footmarkwidth
11800 \bidi@ensure@newcommand{\m@mdoextrafeet}{\extrafeetins}
11801 \bidi@ensure@newcommand*{\extrafeetins}{%
11802 \bidi@joinfootnotes\footinsv@r\@footstartv@r\@footgroupv@r
11803 \bidi@joinfootnotes\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11804 \bidi@joinfootnotes\@bidi@copyins@}{\unvbox\@bidi@copyins@}%
11805 \extrafeetinshook}
11806 \bidi@ensure@newcommand{\extrafeetinshook}{%
11807 \bidi@ensure@newcommand{\foottextfont}{\footnotesize}
11808 \bidi@ensure@newcommand{\LTRfoottextfont}{\footnotesize}
11809 \bidi@ensure@newcommand{\RTLfoottextfont}{\footnotesize}
11810 \bidi@ensure@newlength{\footinsdim}
11811 \setlength{\footinsdim}{8in} % standard for \dimen\footins
11812 \bidi@ensure@newcommand{\@preamfntext}{%
11813 \interlinepenalty\interfootnotelinepenalty
11814 \floatingpenalty \@MM
11815 \splittopskip=\footnotesep
11816 \splitmaxdepth=\dp\strutbox
11817 \@parboxrestore}
11818 \def\bidi@ifmulticol#1#2{\@tempswafalse
11819 \ifnum\col@number>\@ne
11820 \ifnum\count\footins>1999 \@tempwattrue \fi
11821 \fi
11822 \if@tempswa #1\else #2\fi
11823 }
11824 \def\bidi@joinfootnotes#1#2#3{%
11825 \ifvoid#1
11826 \else
11827 \@tempskipa\skip#1%
11828 \bidi@ifmulticol{\divide\@tempskipa\col@number}{}%
11829 \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
11830 \bidi@removexfootskip
11831 \ifvoid\footins
11832 \global\setbox\footins\vbox{#2#3}%
11833 \else
11834 \global\setbox\footins\vbox{%
11835 \unvbox\footins
11836 \bidi@footskip
11837 #2#3%
11838 }%
11839 \fi
11840 \fi
11841 }
11842 \bidi@ensure@newcommand{\m@mdoextrafeetmini}{%

```



```

11843 \extrafeetminihook}
11844 \bidi@ensure@newcommand{\extrafeetendmini}{%
11845 \ifvoid\@mpfootinsv@r
11846 \ifvoid\@mpfootinsv@l
11847 \else
11848 \vskip\skip\@mpfootins
11849 \normalcolor
11850 \if@bidi@void\@mpfootins
11851 \footnoterule
11852 \fi
11853 \mp@LTRfootgroupv@l
11854 \fi
11855 \else
11856 \vskip\skip\@mpfootins
11857 \normalcolor
11858 \if@bidi@void\@mpfootins
11859 \footnoterule
11860 \fi
11861 \mp@footgroupv@r
11862 \ifvoid\@mpfootinsv@l
11863 \else
11864 \vskip\skip\@mpfootins
11865 \normalcolor\mp@LTRfootgroupv@l
11866 \fi
11867 \fi
11868 \extrafeetendminihook}
11869 \bidi@ensure@newcommand{\extrafeetendminihook}{%}
11870 \bidi@ensure@newcommand{\m@mndoextrafeetendmini}{\extrafeetendmini}
11871 \def\endminipage{%
11872 \par
11873 \unskip
11874 \ifvoid\@mpfootins
11875 \global\@bidi@void\@mpfootinstrue
11876 \else
11877 \global\@bidi@void\@mpfootinsfalse
11878 \vskip\skip\@mpfootins
11879 \normalcolor
11880 \footnoterule
11881 \unvbox\@mpfootins
11882 \fi
11883 \m@mndoextrafeetendmini
11884 \@minipagefalse
11885 \color@endgroup
11886 \egroup
11887 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
11888 \bidi@ensure@newcommand{\m@make@footstart}[1]{%
11889 \@namedef{\footstart#1}{%
11890 \leftskip=\z@
11891 \rightskip=\z@
11892 \parindent=\z@
11893 }%
11894 }
11895 \newinsert\footinsv@r
11896 \skip\footinsv@r\skip\footins

```



```

11897 \count\footinsv@r=1000 % no magnification
11898 \dimen\footinsv@r=\footinsdim
11899 \make@footstart{v@r}
11900 \newinsert\footinsv@l
11901 \skip\footinsv@l\skip\footins
11902 \count\footinsv@l=1000 % no magnification
11903 \dimen\footinsv@l=\footinsdim
11904 \make@footstart{v@l}
11905 \bidi@ensure@newcommand{\@footgroupv@r}{}
11906 \newinsert\@mpfootinsv@r
11907 \newinsert\@mpfootinsv@l
11908 \bidi@ensure@newcommand{\mp@footgroupv@r}{}
11909 \newcount\m@m@k \newdimen\m@m@h
11910 \bidi@ensure@newcommand*\m@m@rigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
11911 \@@line{\beginR\splittopskip=\m@m@h \vbadness=\@M \hfilneg
11912 \valign{##\vfill\cr\m@mdosplits}\endR}}
11913 \newcommand*\bidi@LTRrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
11914 \@@line{\beginL\splittopskip=\m@m@h \vbadness=\@M \hfilneg
11915 \valign{##\vfill\cr\m@mdosplits}\endL}}
11916 \bidi@ensure@newcommand*\m@m@dosplits}{\ifnum\m@m@k>0 \noalign{\hfil}\m@msplitoff
11917 \global\advance\m@m@k-1\cr\m@mdosplits\fi}
11918 \bidi@ensure@newcommand*\m@m@splitoff}{\dimen0=\ht0
11919 \divide\dimen0 by\m@m@k \advance\dimen0 by\m@m@h
11920 \setbox2 \vsplit0 to \dimen0
11921 \unvbox2 }
11922 \bidi@ensure@newcommand{\twocolumnfootnotes}{%
11923 \namedef{foottextfontv@r}{\foottextfont}% % [RS]
11924 \namedef{foottextfontv@l}{\LTRfoottextfont}%
11925 \@bidi@before@Hy@hyperfootnotes
11926 \let\@footnotetext\@twocolfootnotetext
11927 \let\@LTRfootnotetext\@twocolLTRfootnotetext
11928 \let\@RTLfootnotetext\@twocolRTLfootnotetext
11929 \dimen\footinsv@r=2\footinsdim
11930 \count\footinsv@r=500\relax
11931 \make@twocol@footgroup{v@r}%
11932 \let\@footgroupv@r\@twocol@footgroupv@r
11933 \dimen\footinsv@l=2\footinsdim
11934 \count\footinsv@l=500\relax
11935 \bidi@make@twocol@LTRfootgroup{v@l}%
11936 \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l
11937 \let\@mpfootnotetext\@mptwocolfootnotetext
11938 \let\@mpLTRfootnotetext\@mptwocolLTRfootnotetext
11939 \let\@mpRTLfootnotetext\@mptwocolRTLfootnotetext
11940 \@bidi@after@Hy@hyperfootnotes
11941 \make@mptwocol@footgroup{v@r}%
11942 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
11943 \bidi@make@mptwocol@LTRfootgroup{v@l}%
11944 \let\mp@LTRfootgroupv@l\@mptwocol@LTRfootgroupv@l
11945 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11946 }
11947 \bidi@ensure@newcommand{\@twocolfootnotetext}[1]{\insert
11948 \ifRTL@footnote
11949 \footinsv@r
11950 \else

```



```

11951 \footinsv@l
11952 \fi
11953 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11954 \def\baselinestretch{\m@{footnote@spacing}%
11955 \reset@font\foottextfont
11956 \@preamfntext
11957 \protected@edef\@currentlabel{%
11958 \csname p@footnote\endcsname\@thefnmark}%
11959 \color@begingroup
11960 \@twocolfootfmt{#1}%
11961 \color@endgroup}%
11962 \m@{mmf@prepare}
11963 \bidi@ensure@newcommand{\@twocolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
11964 \def\baselinestretch{\m@{footnote@spacing}%
11965 \reset@font\LTRfoottextfont
11966 \@preamfntext
11967 \protected@edef\@currentlabel{%
11968 \csname p@footnote\endcsname\@thefnmark}%
11969 \color@begingroup
11970 \@twocolLTRfootfmt{#1}%
11971 \color@endgroup}%
11972 \m@{mmf@prepare}
11973 \bidi@ensure@newcommand{\@twocolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
11974 \def\baselinestretch{\m@{footnote@spacing}%
11975 \reset@font\RTLfoottextfont
11976 \@preamfntext
11977 \protected@edef\@currentlabel{%
11978 \csname p@footnote\endcsname\@thefnmark}%
11979 \color@begingroup
11980 \@twocolRTLfootfmt{#1}%
11981 \color@endgroup}%
11982 \m@{mmf@prepare}
11983 \bidi@ensure@newcommand{\@preamtwofmt}{%
11984 \hspace{.45\hspace}
11985 \parindent=\z@
11986 \tolerance=5000\relax
11987 \leavevmode}
11988 \bidi@ensure@newcommand{\@twocolfootfmt}[1]{%
11989 \@preamtwofmt
11990 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
11991 \bidi@ensure@newcommand{\@twocolLTRfootfmt}[1]{%
11992 \@preamtwofmt
11993 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
11994 \bidi@ensure@newcommand{\@twocolRTLfootfmt}[1]{%
11995 \@preamtwofmt
11996 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
11997 \bidi@ensure@newcommand{\@mptwocolfootnotetext}[1]{%
11998 \global\setbox
11999 \if@RTL@footnote
12000 \@mpfootinsv@r
12001 \else
12002 \@mpfootinsv@l
12003 \fi
12004 \vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%

```





```

12005 \unvbox
12006 \if@RTL@footnote
12007 \@mpfootinsv@r
12008 \else
12009 \@mpfootinsv@l
12010 \fi
12011 \def\baselinestretch{\m@m@footnote@spacing}%
12012 \reset@font\foottextfont
12013 \hsize\columnwidth \@parboxrestore
12014 \protected@edef\@currentlabel{%
12015 \csname p@mpfootnote\endcsname\@thefnmark}%
12016 \color@begingroup
12017 \@twocolfootfmt{#1}%
12018 \color@endgroup}%
12019 \m@mmf@prepare}
12020 \bidi@ensure@newcommand{\@mptwocolLTRfootnotetext}[1]{%
12021 \global\setbox\@mpfootinsv@l\vbox{\@RTLfalse%
12022 \unvbox\@mpfootinsv@l
12023 \def\baselinestretch{\m@m@footnote@spacing}%
12024 \reset@font\LTRfoottextfont
12025 \hsize\columnwidth \@parboxrestore
12026 \protected@edef\@currentlabel{%
12027 \csname p@mpfootnote\endcsname\@thefnmark}%
12028 \color@begingroup
12029 \@twocolLTRfootfmt{#1}%
12030 \color@endgroup}%
12031 \m@mmf@prepare}
12032 \bidi@ensure@newcommand{\@mptwocolRTLfootnotetext}[1]{%
12033 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
12034 \unvbox\@mpfootinsv@r
12035 \def\baselinestretch{\m@m@footnote@spacing}%
12036 \reset@font\RTLfoottextfont
12037 \hsize\columnwidth \@parboxrestore
12038 \protected@edef\@currentlabel{%
12039 \csname p@mpfootnote\endcsname\@thefnmark}%
12040 \color@begingroup
12041 \@twocolRTLfootfmt{#1}%
12042 \color@endgroup}%
12043 \m@mmf@prepare}
12044 \bidi@ensure@newcommand{\m@make@twocol@footgroup}[1]{%
12045 \@namedef{@twocol@footgroup#1}{%
12046 \def\baselinestretch{\m@m@footnote@spacing}%
12047 \hsize\bidi@columnwidth
12048 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12049 \m@r@rigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}%
12050 \newcommand{\bidi@make@twocol@LTRfootgroup}[1]{%
12051 \@namedef{@twocol@LTRfootgroup#1}{%
12052 \def\baselinestretch{\m@m@footnote@spacing}%
12053 \hsize\bidi@columnwidth
12054 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12055 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}%
12056 \bidi@ensure@newcommand{\m@make@mptwocol@footgroup}[1]{%
12057 \@namedef{@mptwocol@footgroup#1}{%
12058 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

12059 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12060 \m@mrigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}}
12061 \newcommand{\bidi@make@mp@twocol@LTRfootgroup}[1]{%
12062 \@namedef{\mp@twocol@LTRfootgroup#1}{%
12063 \def\baselinestretch{\m@footnote@spacing}%
12064 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12065 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}}
12066 \bidi@ensure@newcommand{\threecolumnfootnotes}{%
12067 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12068 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12069 \@bidi@before@Hy@hyperfootnotes
12070 \let\@footnotetext\@threecolfootnotetext
12071 \let\@LTRfootnotetext\@threecolLTRfootnotetext
12072 \let\@RTLfootnotetext\@threecolRTLfootnotetext
12073 \dimen\footinsv@r=3\footinsdim
12074 \count\footinsv@r=333\relax
12075 \m@make@threecol@footgroup{v@r}%
12076 \let\@footgroupv@r\@threecol@footgroupv@r
12077 \dimen\footinsv@l=3\footinsdim
12078 \count\footinsv@l=333\relax
12079 \bidi@make@threecol@LTRfootgroup{v@l}%
12080 \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l
12081 \let\@mpfootnotetext\@mpthreecolfootnotetext
12082 \let\@mpLTRfootnotetext\@mpthreecolLTRfootnotetext
12083 \let\@mpRTLfootnotetext\@mpthreecolRTLfootnotetext
12084 \@bidi@after@Hy@hyperfootnotes
12085 \m@make@mpthreecol@footgroup{v@r}%
12086 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12087 \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12088 \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l
12089 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12090 }
12091 \bidi@ensure@newcommand{\@threecolfootnotetext}[1]{\insert
12092 \if@RTL@footnote
12093 \footinsv@r
12094 \else
12095 \footinsv@l
12096 \fi
12097 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12098 \def\baselinestretch{\m@footnote@spacing}%
12099 \reset@font\foottextfont
12100 \@preamfntext
12101 \protected@edef\@currentlabel{%
12102 \csname p@footnote\endcsname\@thefnmark}%
12103 \color@begingroup
12104 \@threecolfootfmt{#1}%
12105 \color@endgroup}\m@mmf@prepare}
12106 \bidi@ensure@newcommand{\@threecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12107 \def\baselinestretch{\m@footnote@spacing}%
12108 \reset@font\LTRfoottextfont
12109 \@preamfntext
12110 \protected@edef\@currentlabel{%
12111 \csname p@footnote\endcsname\@thefnmark}%
12112 \color@begingroup

```



```

12113 \threecolLTRfootfmt{#1}%
12114 \color@endgroup}\m@mmf@prepare}
12115 \bidi@ensure@newcommand{\threecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12116 \def\baselinestretch{\m@m@footnote@spacing}%
12117 \reset@font\RTLfoottextfont
12118 \@preamfntext
12119 \protected@edef\@currentlabel{%
12120 \csname p@footnote\endcsname\@thefnmark}%
12121 \color@begingroup
12122 \threecolRTLfootfmt{#1}%
12123 \color@endgroup}\m@mmf@prepare}
12124 \bidi@ensure@newcommand{\@preamthreefmt}{%
12125 \hspace{.3\hspace}
12126 \parindent=\z@
12127 \tolerance=5000\relax
12128 \leavevmode}
12129 \bidi@ensure@newcommand{\threecolfootfmt}[1]{%
12130 \@preamthreefmt
12131 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12132 \bidi@ensure@newcommand{\threecolLTRfootfmt}[1]{%
12133 \@preamthreefmt
12134 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12135 \bidi@ensure@newcommand{\threecolRTLfootfmt}[1]{%
12136 \@preamthreefmt
12137 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12138 \bidi@ensure@newcommand{\@mpthreecolfootnotetext}[1]{%
12139 \global\setbox
12140 \if@RTL@footnote
12141 \@mpfootinsv@r
12142 \else
12143 \@mpfootinsv@l
12144 \fi
12145 \vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12146 \unvbox
12147 \if@RTL@footnote
12148 \@mpfootinsv@r
12149 \else
12150 \@mpfootinsv@l
12151 \fi
12152 \def\baselinestretch{\m@m@footnote@spacing}%
12153 \reset@font\foottextfont
12154 \hspace\columnwidth \@parboxrestore
12155 \protected@edef\@currentlabel{%
12156 \csname p@mpfootnote\endcsname\@thefnmark}%
12157 \color@begingroup
12158 \threecolfootfmt{#1}%
12159 \color@endgroup}\m@mmf@prepare}
12160 \bidi@ensure@newcommand{\@mpthreecolLTRfootnotetext}[1]{%
12161 \global\setbox\@mpfootinsv@l\vbox{\@RTLfalse%
12162 \unvbox\@mpfootinsv@l
12163 \def\baselinestretch{\m@m@footnote@spacing}%
12164 \reset@font\LTRfoottextfont
12165 \hspace\columnwidth \@parboxrestore
12166 \protected@edef\@currentlabel{%

```



```

12167 \csname p@mpfootnote\endcsname\@thefnmark}%
12168 \color@begingroup
12169 \@threecolLTRfootfmt{#1}%
12170 \color@endgroup}\m@mmf@prepare}
12171 \bidi@ensure@newcommand{\@mpthreecolRTLfootnotetext}[1]{%
12172 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
12173 \unvbox\@mpfootinsv@r
12174 \def\baselinestretch{\m@m@footnote@spacing}%
12175 \reset@font\RTLfoottextfont
12176 \hsize\columnwidth \@parboxrestore
12177 \protected@edef\@currentlabel{%
12178 \csname p@mpfootnote\endcsname\@thefnmark}%
12179 \color@begingroup
12180 \@threecolRTLfootfmt{#1}%
12181 \color@endgroup}\m@mmf@prepare}
12182 \bidi@ensure@newcommand{\m@make@threecol@footgroup}[1]{%
12183 \@namedef{@threecol@footgroup#1}{%
12184 \def\baselinestretch{\m@m@footnote@spacing}%
12185 \hsize\bidi@columnwidth
12186 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12187 \m@mrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}%
12188 \newcommand{\bidi@make@threecol@LTRfootgroup}[1]{%
12189 \@namedef{@threecol@LTRfootgroup#1}{%
12190 \def\baselinestretch{\m@m@footnote@spacing}%
12191 \hsize\bidi@columnwidth
12192 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12193 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}%
12194 \bidi@ensure@newcommand{\m@make@mpthreecol@footgroup}[1]{%
12195 \@namedef{@mpthreecol@footgroup#1}{%
12196 \def\baselinestretch{\m@m@footnote@spacing}%
12197 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12198 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{\thr@@}{\splittopskip}}}%
12199 \newcommand{\bidi@make@mpthreecol@LTRfootgroup}[1]{%
12200 \@namedef{@mpthreecol@LTRfootgroup#1}{%
12201 \def\baselinestretch{\m@m@footnote@spacing}%
12202 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12203 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{\thr@@}{\splittopskip}}}%
12204 \bidi@ensure@newcommand{\fourcolumnfootnotes}{%
12205 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12206 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12207 \@bidi@before@Hy@hyperfootnotes
12208 \let\@footnotetext\@fourcolfootnotetext
12209 \let\@LTRfootnotetext\@fourcolLTRfootnotetext
12210 \let\@RTLfootnotetext\@fourcolRTLfootnotetext
12211 \dimen\footinsv@r=4\footinsdim
12212 \count\footinsv@r=250\relax
12213 \m@make@fourcol@footgroup{v@r}%
12214 \let\@footgroupv@r\@fourcol@footgroupv@r
12215 \dimen\footinsv@l=4\footinsdim
12216 \count\footinsv@l=250\relax
12217 \bidi@make@fourcol@LTRfootgroup{v@l}%
12218 \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12219 \let\@mpfootnotetext\@mpfourcolfootnotetext
12220 \let\@mpLTRfootnotetext\@mpfourcolLTRfootnotetext

```



```

12221 \let\@mpRTLfootnotetext\@mpfourcolRTLfootnotetext
12222 \@bidi@after@Hy@hyperfootnotes
12223 \m@make@mpfourcol@footgroup{v@r}%
12224 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12225 \bidi@make@mpfourcol@LTRfootgroup{v@l}%
12226 \let\mp@LTRfootgroupv@l\@mpfourcol@LTRfootgroupv@l
12227 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12228 }
12229 \bidi@ensure@newcommand{\@fourcolfootnotetext}[1]{\insert
12230 \if@RTL@footnote
12231 \footinsv@r
12232 \else
12233 \footinsv@l
12234 \fi
12235 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12236 \def\baselinestretch{\m@mm@footnote@spacing}%
12237 \reset@font\foottextfont
12238 \@preamfntext
12239 \protected@edef\@currentlabel{%
12240 \csname p@footnote\endcsname\@thefnmark}%
12241 \color@begingroup
12242 \@fourcolfootfmt{#1}%
12243 \color@endgroup}%
12244 \m@mmf@prepare}
12245 \bidi@ensure@newcommand{\@fourcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12246 \def\baselinestretch{\m@mm@footnote@spacing}%
12247 \reset@font\LTRfoottextfont
12248 \@preamfntext
12249 \protected@edef\@currentlabel{%
12250 \csname p@footnote\endcsname\@thefnmark}%
12251 \color@begingroup
12252 \@fourcolLTRfootfmt{#1}%
12253 \color@endgroup}%
12254 \m@mmf@prepare}
12255 \bidi@ensure@newcommand{\@fourcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12256 \def\baselinestretch{\m@mm@footnote@spacing}%
12257 \reset@font\RTLfoottextfont
12258 \@preamfntext
12259 \protected@edef\@currentlabel{%
12260 \csname p@footnote\endcsname\@thefnmark}%
12261 \color@begingroup
12262 \@fourcolRTLfootfmt{#1}%
12263 \color@endgroup}%
12264 \m@mmf@prepare}
12265 \bidi@ensure@newcommand{\@preamfourfmt}{%
12266 \hspace{.25\hspace}
12267 \parindent=\z@
12268 \tolerance=5000\relax
12269 \leavevmode}
12270 \bidi@ensure@newcommand{\@fourcolfootfmt}[1]{%
12271 \@preamfourfmt
12272 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12273 \bidi@ensure@newcommand{\@fourcolLTRfootfmt}[1]{%
12274 \@preamfourfmt

```



```

12275 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12276 \bidi@ensure@newcommand{\@fourcolRTLfootfmt}[1]{%
12277   \@preamfourfmt
12278   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12279 \bidi@ensure@newcommand{\@mpfourcolfootnotetext}[1]{%
12280   \global\setbox
12281     \if@RTL@footnote
12282     \@mpfootinsv@r
12283   \else
12284     \@mpfootinsv@l
12285   \fi
12286   \vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12287     \unvbox
12288     \if@RTL@footnote
12289     \@mpfootinsv@r
12290   \else
12291     \@mpfootinsv@l
12292   \fi
12293   \def\baselinestretch{\m@m@footnote@spacing}%
12294   \reset@font\foottextfont
12295   \hsize\columnwidth \@parboxrestore
12296   \protected@edef\@currentlabel{%
12297     \csname p@mpfootnote\endcsname\@thefnmark}%
12298   \color@begingroup
12299     \@fourcolfootfmt{#1}%
12300   \color@endgroup}%
12301   \m@m@prepare}
12302 \bidi@ensure@newcommand{\@mpfourcolLTRfootnotetext}[1]{%
12303   \global\setbox\@mpfootinsv@l\vbox{\@RTLfalse%
12304     \unvbox\@mpfootinsv@l
12305     \def\baselinestretch{\m@m@footnote@spacing}%
12306     \reset@font\LTRfoottextfont
12307     \hsize\columnwidth \@parboxrestore
12308     \protected@edef\@currentlabel{%
12309       \csname p@mpfootnote\endcsname\@thefnmark}%
12310     \color@begingroup
12311       \@fourcolLTRfootfmt{#1}%
12312     \color@endgroup}%
12313   \m@m@prepare}
12314 \bidi@ensure@newcommand{\@mpfourcolRTLfootnotetext}[1]{%
12315   \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
12316     \unvbox\@mpfootinsv@r
12317     \def\baselinestretch{\m@m@footnote@spacing}%
12318     \reset@font\RTLfoottextfont
12319     \hsize\columnwidth \@parboxrestore
12320     \protected@edef\@currentlabel{%
12321       \csname p@mpfootnote\endcsname\@thefnmark}%
12322     \color@begingroup
12323       \@fourcolRTLfootfmt{#1}%
12324     \color@endgroup}%
12325   \m@m@prepare}
12326 \bidi@ensure@newcommand{\m@make@fourcol@footgroup}[1]{%
12327   \@namedef{\@fourcol@footgroup#1}{%
12328     \def\baselinestretch{\m@m@footnote@spacing}%

```



```

12329 \hsize\bidi@columnwidth
12330 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12331 \m@mrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}}
12332 \newcommand{\bidi@make@fourcol@LTRfootgroup}[1]{%
12333 \@namedef{fourcol@LTRfootgroup#1}{%
12334 \def\baselinestretch{\m@m@footnote@spacing}%
12335 \hsize\bidi@columnwidth
12336 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12337 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}}
12338 \bidi@ensure@newcommand{\m@make@mpfourcol@footgroup}[1]{%
12339 \@namedef{mpfourcol@footgroup#1}{%
12340 \def\baselinestretch{\m@m@footnote@spacing}%
12341 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12342 \m@mrigidbalance{\@nameuse{mpfootins#1}}{4}{\splittopskip}}}}
12343 \newcommand{\bidi@make@mpfourcol@LTRfootgroup}[1]{%
12344 \@namedef{mpfourcol@LTRfootgroup#1}{%
12345 \def\baselinestretch{\m@m@footnote@spacing}%
12346 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12347 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{4}{\splittopskip}}}}
12348 \bidi@ensure@newcommand{\fivecolumnfootnotes}{%
12349 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12350 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12351 \@bidi@before@Hy@hyperfootnotes
12352 \let\@footnotetext\@fivecolfootnotetext
12353 \let\@LTRfootnotetext\@fivecolLTRfootnotetext
12354 \let\@RTLfootnotetext\@fivecolRTLfootnotetext
12355 \dimen\footinsv@r=5\footinsdim
12356 \count\footinsv@r=200\relax
12357 \m@make@fivecol@footgroup{v@r}%
12358 \let\@footgroupv@r\@fivecol@footgroupv@r
12359 \dimen\footinsv@l=5\footinsdim
12360 \count\footinsv@l=200\relax
12361 \bidi@make@fivecol@LTRfootgroup{v@l}%
12362 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
12363 \let\@mpfootnotetext\@mpfivecolfootnotetext
12364 \let\@mpLTRfootnotetext\@mpfivecolLTRfootnotetext
12365 \let\@mpRTLfootnotetext\@mpfivecolRTLfootnotetext
12366 \@bidi@after@Hy@hyperfootnotes
12367 \m@make@mpfivecol@footgroup{v@r}%
12368 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
12369 \bidi@make@mpfivecol@LTRfootgroup{v@l}%
12370 \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l
12371 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12372 }
12373 \bidi@ensure@newcommand{\@fivecolfootnotetext}[1]{\insert
12374 \if@RTL@footnote
12375 \footinsv@r
12376 \else
12377 \footinsv@l
12378 \fi
12379 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12380 \def\baselinestretch{\m@m@footnote@spacing}%
12381 \reset@font\foottextfont
12382 \@preamfntext

```



```

12383 \protected@edef\@currentlabel{%
12384   \csname p@footnote\endcsname\@thefnmark}%
12385 \color@begingroup
12386   \@fivecolfootfmt{#1}%
12387 \color@endgroup}%
12388 \m@mmf@prepare}
12389 \bidi@ensure@newcommand{\@fivecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12390   \def\baselinestretch{\m@m@footnote@spacing}%
12391   \reset@font\LTRfoottextfont
12392   \@preamfntext
12393   \protected@edef\@currentlabel{%
12394     \csname p@footnote\endcsname\@thefnmark}%
12395   \color@begingroup
12396     \@fivecolLTRfootfmt{#1}%
12397   \color@endgroup}%
12398   \m@mmf@prepare}
12399 \bidi@ensure@newcommand{\@fivecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12400   \def\baselinestretch{\m@m@footnote@spacing}%
12401   \reset@font\RTLfoottextfont
12402   \@preamfntext
12403   \protected@edef\@currentlabel{%
12404     \csname p@footnote\endcsname\@thefnmark}%
12405   \color@begingroup
12406     \@fivecolRTLfootfmt{#1}%
12407   \color@endgroup}%
12408   \m@mmf@prepare}
12409 \bidi@ensure@newcommand{\@preamfivefmt}{%
12410   \hsize .2\hsize
12411   \parindent=\z@
12412   \tolerance=5000\relax
12413   \leavevmode}
12414 \bidi@ensure@newcommand{\@fivecolfootfmt}[1]{%
12415   \@preamfivefmt
12416   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12417 \bidi@ensure@newcommand{\@fivecolLTRfootfmt}[1]{%
12418   \@preamfivefmt
12419   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12420 \bidi@ensure@newcommand{\@fivecolRTLfootfmt}[1]{%
12421   \@preamfivefmt
12422   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12423 \bidi@ensure@newcommand{\@mpfivecolfootnotetext}[1]{%
12424   \global\setbox
12425     \if@RTL@footnote
12426     \@mpfootinsv@r
12427   \else
12428     \@mpfootinsv@l
12429   \fi
12430   \vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12431     \unvbox
12432     \if@RTL@footnote
12433     \@mpfootinsv@r
12434   \else
12435     \@mpfootinsv@l
12436   \fi

```





```

12437 \def\baselinestretch{\m@m@footnote@spacing}%
12438 \reset@font\foottextfont
12439 \hsize\columnwidth \@parboxrestore
12440 \protected@edef\@currentlabel{%
12441 \csname p@mpfootnote\endcsname\@thefnmark}%
12442 \color@begingroup
12443 \@fivecolfootfmt{#1}%
12444 \color@endgroup}%
12445 \m@mmf@prepare}
12446 \bidi@ensure@newcommand{\@mpfivecolLTRfootnotetext}[1]{%
12447 \global\setbox\@mpfootinsv@l\vbox{\@RTLfalse%
12448 \unvbox\@mpfootinsv@l
12449 \def\baselinestretch{\m@m@footnote@spacing}%
12450 \reset@font\LTRfoottextfont
12451 \hsize\columnwidth \@parboxrestore
12452 \protected@edef\@currentlabel{%
12453 \csname p@mpfootnote\endcsname\@thefnmark}%
12454 \color@begingroup
12455 \@fivecolLTRfootfmt{#1}%
12456 \color@endgroup}%
12457 \m@mmf@prepare}
12458 \bidi@ensure@newcommand{\@mpfivecolRTLfootnotetext}[1]{%
12459 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
12460 \unvbox\@mpfootinsv@r
12461 \def\baselinestretch{\m@m@footnote@spacing}%
12462 \reset@font\RTLfoottextfont
12463 \hsize\columnwidth \@parboxrestore
12464 \protected@edef\@currentlabel{%
12465 \csname p@mpfootnote\endcsname\@thefnmark}%
12466 \color@begingroup
12467 \@fivecolRTLfootfmt{#1}%
12468 \color@endgroup}%
12469 \m@mmf@prepare}
12470 \bidi@ensure@newcommand{\m@make@fivecol@footgroup}[1]{%
12471 \@namedef{@fivecol@footgroup#1}{%
12472 \def\baselinestretch{\m@m@footnote@spacing}%
12473 \hsize\bidi@columnwidth
12474 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12475 \m@mrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}%
12476 \newcommand{\bidi@make@fivecol@LTRfootgroup}[1]{%
12477 \@namedef{@fivecol@LTRfootgroup#1}{%
12478 \def\baselinestretch{\m@m@footnote@spacing}%
12479 \hsize\bidi@columnwidth
12480 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12481 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}%
12482 \bidi@ensure@newcommand{\m@make@mpfivecol@footgroup}[1]{%
12483 \@namedef{@mpfivecol@footgroup#1}{%
12484 \def\baselinestretch{\m@m@footnote@spacing}%
12485 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12486 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}}%
12487 \newcommand{\bidi@make@mpfivecol@LTRfootgroup}[1]{%
12488 \@namedef{@mpfivecol@LTRfootgroup#1}{%
12489 \def\baselinestretch{\m@m@footnote@spacing}%
12490 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox

```



```

12491 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}
12492 \bidi@ensure@newcommand{\sixcolumnfootnotes}{%
12493 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12494 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12495 \@bidi@before@Hy@hyperfootnotes
12496 \let\@footnotetext\@sixcolfootnotetext
12497 \let\@LTRfootnotetext\@sixcolLTRfootnotetext
12498 \let\@RTLfootnotetext\@sixcolRTLfootnotetext
12499 \dimen\footinsv@r=6\footinsdim
12500 \count\footinsv@r=166\relax
12501 \m@make@sixcol@footgroup{v@r}%
12502 \let\@footgroupv@r\@sixcol@footgroupv@r
12503 \dimen\footinsv@l=6\footinsdim
12504 \count\footinsv@l=166\relax
12505 \bidi@make@sixcol@LTRfootgroup{v@l}%
12506 \let\@LTRfootgroupv@l\@sixcol@LTRfootgroupv@l
12507 \let\@mpfootnotetext\@mpsixcolfootnotetext
12508 \let\@mpLTRfootnotetext\@mpsixcolLTRfootnotetext
12509 \let\@mpRTLfootnotetext\@mpsixcolRTLfootnotetext
12510 \@bidi@after@Hy@hyperfootnotes
12511 \m@make@mpsixcol@footgroup{v@r}%
12512 \let\mp@footgroupv@r\@mpsixcol@footgroupv@r
12513 \bidi@make@mpsixcol@LTRfootgroup{v@l}%
12514 \let\mp@LTRfootgroupv@l\@mpsixcol@LTRfootgroupv@l
12515 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12516 }
12517 \bidi@ensure@newcommand{\@sixcolfootnotetext}[1]{\insert
12518 \if@RTL@footnote
12519 \footinsv@r
12520 \else
12521 \footinsv@l
12522 \fi
12523 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12524 \def\baselinestretch{\m@f@footnote@spacing}%
12525 \reset@font\foottextfont
12526 \@preamfntext
12527 \protected@edef\@currentlabel{%
12528 \csname p@footnote\endcsname\@thefnmark}%
12529 \color@begingroup
12530 \@sixcolfootfmt{#1}%
12531 \color@endgroup}%
12532 \m@m@f@prepare}
12533 \bidi@ensure@newcommand{\@sixcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12534 \def\baselinestretch{\m@f@footnote@spacing}%
12535 \reset@font\LTRfoottextfont
12536 \@preamfntext
12537 \protected@edef\@currentlabel{%
12538 \csname p@footnote\endcsname\@thefnmark}%
12539 \color@begingroup
12540 \@sixcolLTRfootfmt{#1}%
12541 \color@endgroup}%
12542 \m@m@f@prepare}
12543 \bidi@ensure@newcommand{\@sixcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12544 \def\baselinestretch{\m@f@footnote@spacing}%

```



```

12545 \reset@font\RTLfoottextfont
12546 \@preamfntext
12547 \protected@edef\@currentlabel{%
12548   \csname p@footnote\endcsname\@thefnmark}%
12549 \color@begingroup
12550   \@sixcolRTLfootfmt{#1}%
12551 \color@endgroup}%
12552 \m@mmf@prepare}
12553 \bidi@ensure@newcommand{\@preamsixfmt}{%
12554   \hsize .16\hsize
12555   \parindent=\z@
12556   \tolerance=5000\relax
12557   \leavevmode}
12558 \bidi@ensure@newcommand{\@sixcolfootfmt}[1]{%
12559   \@preamsixfmt
12560   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12561 \bidi@ensure@newcommand{\@sixcolLTRfootfmt}[1]{%
12562   \@preamsixfmt
12563   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12564 \bidi@ensure@newcommand{\@sixcolRTLfootfmt}[1]{%
12565   \@preamsixfmt
12566   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12567 \bidi@ensure@newcommand{\@mpsixcolfootnotetext}[1]{\if@RTL@footnote\@RTLtrue\else\@RTLfalse}
12568 \global\setbox
12569   \if@RTL@footnote
12570     \@mpfootinsv@r
12571   \else
12572     \@mpfootinsv@l
12573   \fi
12574 \vbox{%
12575   \unvbox
12576   \if@RTL@footnote
12577     \@mpfootinsv@r
12578   \else
12579     \@mpfootinsv@l
12580   \fi
12581   \def\baselinestretch{\m@m@footnote@spacing}%
12582   \reset@font\foottextfont
12583   \hsize\columnwidth \@parboxrestore
12584   \protected@edef\@currentlabel{%
12585     \csname p@mpfootnote\endcsname\@thefnmark}%
12586   \color@begingroup
12587     \@sixcolfootfmt{#1}%
12588   \color@endgroup}%
12589   \m@mmf@prepare}
12590 \bidi@ensure@newcommand{\@mpsixcolLTRfootnotetext}[1]{\@RTLfalse}
12591 \global\setbox\@mpfootinsv@l\vbox{%
12592   \unvbox\@mpfootinsv@l
12593   \def\baselinestretch{\m@m@footnote@spacing}%
12594   \reset@font\LTRfoottextfont
12595   \hsize\columnwidth \@parboxrestore
12596   \protected@edef\@currentlabel{%
12597     \csname p@mpfootnote\endcsname\@thefnmark}%
12598   \color@begingroup

```



```

12599 \sixcolLTRfootfmt{#1}%
12600 \color@endgroup}%
12601 \m@mmf@prepare}
12602 \bidi@ensure@newcommand{\@mpsixcolRTLfootnotetext}[1]{\@RTLtrue%
12603 \global\setbox\@mpfootinsv@r\vbox{%
12604 \unvbox\@mpfootinsv@r
12605 \def\baselinestretch{\m@m@footnote@spacing}%
12606 \reset@font\RTLfoottextfont
12607 \hsize\columnwidth \@parboxrestore
12608 \protected@edef\@currentlabel{%
12609 \csname p@mpfootnote\endcsname\@thefnmark}%
12610 \color@begingroup
12611 \sixcolRTLfootfmt{#1}%
12612 \color@endgroup}%
12613 \m@mmf@prepare}
12614 \bidi@ensure@newcommand{\m@make@sixcol@footgroup}[1]{%
12615 \@namedef{\sixcol@footgroup#1}{%
12616 \def\baselinestretch{\m@m@footnote@spacing}%
12617 \hsize\bidi@columnwidth
12618 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12619 \m@mrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}%
12620 \newcommand{\bidi@make@sixcol@LTRfootgroup}[1]{%
12621 \@namedef{\sixcol@LTRfootgroup#1}{%
12622 \def\baselinestretch{\m@m@footnote@spacing}%
12623 \hsize\bidi@columnwidth
12624 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12625 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}%
12626 \bidi@ensure@newcommand{\m@make@mpsixcol@footgroup}[1]{%
12627 \@namedef{\mpsixcol@footgroup#1}{%
12628 \def\baselinestretch{\m@m@footnote@spacing}%
12629 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12630 \m@mrigidbalance{\@nameuse{\@mpfootins#1}}{6}{\splittopskip}}}%
12631 \newcommand{\bidi@make@mpsixcol@LTRfootgroup}[1]{%
12632 \@namedef{\mpsixcol@LTRfootgroup#1}{%
12633 \def\baselinestretch{\m@m@footnote@spacing}%
12634 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12635 \bidi@LTRrigidbalance{\@nameuse{\@mpfootins#1}}{6}{\splittopskip}}}%
12636 \bidi@ensure@newcommand{\sevendcolumnfootnotes}{%
12637 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12638 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12639 \@bidi@before@Hy@hyperfootnotes
12640 \let\@footnotetext\@sevendcolfootnotetext
12641 \let\@LTRfootnotetext\@sevendcolLTRfootnotetext
12642 \let\@RTLfootnotetext\@sevendcolRTLfootnotetext
12643 \dimen\footinsv@r=7\footinsdim
12644 \count\footinsv@r=142\relax
12645 \m@make@sevendcol@footgroup{v@r}%
12646 \let\@footgroupv@r\@sevendcol@footgroupv@r
12647 \dimen\footinsv@l=7\footinsdim
12648 \count\footinsv@l=142\relax
12649 \bidi@make@sevendcol@LTRfootgroup{v@l}%
12650 \let\@LTRfootgroupv@l\@sevendcol@LTRfootgroupv@l
12651 \let\@mpfootnotetext\@mpsevendcolfootnotetext
12652 \let\@mpLTRfootnotetext\@mpsevendcolLTRfootnotetext

```



```

12653 \let\@mpRTLfootnotetext\@mpsevenscolRTLfootnotetext
12654 \@bidi@after@Hy@hyperfootnotes
12655 \m@make@mpsevenscol@footgroup{v@r}%
12656 \let\mp@footgroupv@r\@mpsevenscol@footgroupv@r
12657 \bidi@make@mpsevenscol@LTRfootgroup{v@l}%
12658 \let\mp@LTRfootgroupv@l\@mpsevenscol@LTRfootgroupv@l
12659 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12660 }
12661 \bidi@ensure@newcommand{\@sevenscolfootnotetext}[1]{\insert
12662 \if@RTL@footnote
12663 \footinsv@r
12664 \else
12665 \footinsv@l
12666 \fi
12667 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12668 \def\baselinestretch{\m@mm@footnote@spacing}%
12669 \reset@font\foottextfont
12670 \@preamfntext
12671 \protected@edef\@currentlabel{%
12672 \csname p@footnote\endcsname\@thefnmark}%
12673 \color@begingroup
12674 \@sevenscolfootfmt{#1}%
12675 \color@endgroup}%
12676 \m@mmf@prepare}
12677 \bidi@ensure@newcommand{\@sevenscolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12678 \def\baselinestretch{\m@mm@footnote@spacing}%
12679 \reset@font\LTRfoottextfont
12680 \@preamfntext
12681 \protected@edef\@currentlabel{%
12682 \csname p@footnote\endcsname\@thefnmark}%
12683 \color@begingroup
12684 \@sevenscolLTRfootfmt{#1}%
12685 \color@endgroup}%
12686 \m@mmf@prepare}
12687 \bidi@ensure@newcommand{\@sevenscolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12688 \def\baselinestretch{\m@mm@footnote@spacing}%
12689 \reset@font\RTLfoottextfont
12690 \@preamfntext
12691 \protected@edef\@currentlabel{%
12692 \csname p@footnote\endcsname\@thefnmark}%
12693 \color@begingroup
12694 \@sevenscolRTLfootfmt{#1}%
12695 \color@endgroup}%
12696 \m@mmf@prepare}
12697 \bidi@ensure@newcommand{\@preamsevenfmt}{%
12698 \hspace{.142\hspace}
12699 \parindent=\z@
12700 \tolerance=5000\relax
12701 \leavevmode}
12702 \bidi@ensure@newcommand{\@sevenscolfootfmt}[1]{%
12703 \@preamsevenfmt
12704 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12705 \bidi@ensure@newcommand{\@sevenscolLTRfootfmt}[1]{%
12706 \@preamsevenfmt

```



```

12707 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12708 \bidi@ensure@newcommand{\@sevenscolRTLfootfmt}[1]{%
12709   \@preamsevenfmt
12710   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12711 \bidi@ensure@newcommand{\@mpsevencolfootnotetext}[1]{\if@RTL@footnote\@RTLtrue\else\@RTLfalse%
12712   \global\setbox
12713     \if@RTL@footnote
12714     \@mpfootinsv@r
12715   \else
12716     \@mpfootinsv@l
12717   \fi
12718   \vbox{%
12719     \unvbox
12720     \if@RTL@footnote
12721     \@mpfootinsv@r
12722   \else
12723     \@mpfootinsv@l
12724   \fi
12725   \def\baselinestretch{\m@m@footnote@spacing}%
12726   \reset@font\foottextfont
12727   \hsize\columnwidth \@parboxrestore
12728   \protected@edef\@currentlabel{%
12729     \csname p@mpfootnote\endcsname\@thefnmark}%
12730   \color@begingroup
12731     \@sevenscolfootfmt{#1}%
12732   \color@endgroup}%
12733   \m@mmf@prepare}
12734 \bidi@ensure@newcommand{\@mpsevencolLTRfootnotetext}[1]{\@RTLfalse%
12735   \global\setbox\@mpfootinsv@l\vbox{%
12736     \unvbox\@mpfootinsv@l
12737     \def\baselinestretch{\m@m@footnote@spacing}%
12738     \reset@font\LTRfoottextfont
12739     \hsize\columnwidth \@parboxrestore
12740     \protected@edef\@currentlabel{%
12741       \csname p@mpfootnote\endcsname\@thefnmark}%
12742     \color@begingroup
12743       \@sevenscolLTRfootfmt{#1}%
12744     \color@endgroup}%
12745     \m@mmf@prepare}
12746 \bidi@ensure@newcommand{\@mpsevencolRTLfootnotetext}[1]{\@RTLtrue%
12747   \global\setbox\@mpfootinsv@r\vbox{%
12748     \unvbox\@mpfootinsv@r
12749     \def\baselinestretch{\m@m@footnote@spacing}%
12750     \reset@font\RTLfoottextfont
12751     \hsize\columnwidth \@parboxrestore
12752     \protected@edef\@currentlabel{%
12753       \csname p@mpfootnote\endcsname\@thefnmark}%
12754     \color@begingroup
12755       \@sevenscolRTLfootfmt{#1}%
12756     \color@endgroup}%
12757     \m@mmf@prepare}
12758 \bidi@ensure@newcommand{\m@make@sevenscol@footgroup}[1]{%
12759   \@namedef{\@sevenscol@footgroup#1}{%
12760     \def\baselinestretch{\m@m@footnote@spacing}%

```



```

12761 \hsize\bidicolumnwidth
12762 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12763 \m@mrigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}}
12764 \newcommand{\bidi@make@sevenscol@LTRfootgroup}[1]{%
12765 \@namedef{@sevenscol@LTRfootgroup#1}{%
12766 \def\baselinestretch{\m@m@footnote@spacing}%
12767 \hsize\bidicolumnwidth
12768 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12769 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}}
12770 \bidi@ensure@newcommand{\m@make@mpsevenscol@footgroup}[1]{%
12771 \@namedef{@mpsevenscol@footgroup#1}{%
12772 \def\baselinestretch{\m@m@footnote@spacing}%
12773 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12774 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{7}{\splittopskip}}}}
12775 \newcommand{\bidi@make@mpsevenscol@LTRfootgroup}[1]{%
12776 \@namedef{@mpsevenscol@LTRfootgroup#1}{%
12777 \def\baselinestretch{\m@m@footnote@spacing}%
12778 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12779 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{7}{\splittopskip}}}}
12780 \bidi@ensure@newcommand{\eightcolumnfootnotes}{%
12781 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12782 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12783 \@bidi@before@Hy@hyperfootnotes
12784 \let\@footnotetext\@eightcolfootnotetext
12785 \let\@LTRfootnotetext\@eightcolLTRfootnotetext
12786 \let\@RTLfootnotetext\@eightcolRTLfootnotetext
12787 \dimen\footinsv@r=8\footinsdim
12788 \count\footinsv@r=125\relax
12789 \m@make@eightcol@footgroup{v@r}%
12790 \let\@footgroupv@r\@eightcol@footgroupv@r
12791 \dimen\footinsv@l=8\footinsdim
12792 \count\footinsv@l=125\relax
12793 \bidi@make@eightcol@LTRfootgroup{v@l}%
12794 \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l
12795 \let\@mpfootnotetext\@mpeightcolfootnotetext
12796 \let\@mpLTRfootnotetext\@mpeightcolLTRfootnotetext
12797 \let\@mpRTLfootnotetext\@mpeightcolRTLfootnotetext
12798 \@bidi@after@Hy@hyperfootnotes
12799 \m@make@mpeightcol@footgroup{v@r}%
12800 \let\mp@footgroupv@r\@mpeightcol@footgroupv@r
12801 \bidi@make@mpeightcol@LTRfootgroup{v@l}%
12802 \let\mp@LTRfootgroupv@l\@mpeightcol@LTRfootgroupv@l
12803 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12804 }
12805 \bidi@ensure@newcommand{\@eightcolfootnotetext}[1]{\insert
12806 \if@RTL@footnote
12807 \footinsv@r
12808 \else
12809 \footinsv@l
12810 \fi
12811 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12812 \def\baselinestretch{\m@m@footnote@spacing}%
12813 \reset@font\foottextfont
12814 \@preamfntext

```



```

12815 \protected@edef\@currentlabel{%
12816   \csname p@footnote\endcsname\@thefnmark}%
12817 \color@begingroup
12818   \@eightcolfootfmt{#1}%
12819 \color@endgroup}%
12820 \m@mmf@prepare}
12821 \bidi@ensure@newcommand{\@eightcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12822   \def\baselinestretch{\m@m@footnote@spacing}%
12823   \reset@font\LTRfoottextfont
12824   \@preamfntext
12825   \protected@edef\@currentlabel{%
12826     \csname p@footnote\endcsname\@thefnmark}%
12827   \color@begingroup
12828     \@eightcolLTRfootfmt{#1}%
12829   \color@endgroup}%
12830   \m@mmf@prepare}
12831 \bidi@ensure@newcommand{\@eightcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12832   \def\baselinestretch{\m@m@footnote@spacing}%
12833   \reset@font\RTLfoottextfont
12834   \@preamfntext
12835   \protected@edef\@currentlabel{%
12836     \csname p@footnote\endcsname\@thefnmark}%
12837   \color@begingroup
12838     \@eightcolRTLfootfmt{#1}%
12839   \color@endgroup}%
12840   \m@mmf@prepare}
12841 \bidi@ensure@newcommand{\@preameightfmt}{%
12842   \hsize .125\hsize
12843   \parindent=\z@
12844   \tolerance=5000\relax
12845   \leavevmode}
12846 \bidi@ensure@newcommand{\@eightcolfootfmt}[1]{%
12847   \@preameightfmt
12848   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12849 \bidi@ensure@newcommand{\@eightcolLTRfootfmt}[1]{%
12850   \@preameightfmt
12851   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12852 \bidi@ensure@newcommand{\@eightcolRTLfootfmt}[1]{%
12853   \@preameightfmt
12854   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12855 \bidi@ensure@newcommand{\@mpeightcolfootnotetext}[1]{%
12856   \global\setbox
12857     \if@RTL@footnote
12858     \@mpfootinsv@r
12859   \else
12860     \@mpfootinsv@l
12861   \fi
12862   \vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12863     \unvbox
12864     \if@RTL@footnote
12865     \@mpfootinsv@r
12866   \else
12867     \@mpfootinsv@l
12868   \fi

```





```

12869 \def\baselinestretch{\m@m@footnote@spacing}%
12870 \reset@font\foottextfont
12871 \hsize\columnwidth \@parboxrestore
12872 \protected@edef\@currentlabel{%
12873 \csname p@mpfootnote\endcsname\@thefnmark}%
12874 \color@begingroup
12875 \@eightcolfootfmt{#1}%
12876 \color@endgroup}%
12877 \m@mmf@prepare}
12878 \bidi@ensure@newcommand{\@mpeightcolLTRfootnotetext}[1]{%
12879 \global\setbox\@mpfootinsv@l\vbox{\@RTLfalse%
12880 \unvbox\@mpfootinsv@l
12881 \def\baselinestretch{\m@m@footnote@spacing}%
12882 \reset@font\LTRfoottextfont
12883 \hsize\columnwidth \@parboxrestore
12884 \protected@edef\@currentlabel{%
12885 \csname p@mpfootnote\endcsname\@thefnmark}%
12886 \color@begingroup
12887 \@eightcolLTRfootfmt{#1}%
12888 \color@endgroup}%
12889 \m@mmf@prepare}
12890 \bidi@ensure@newcommand{\@mpeightcolRTLfootnotetext}[1]{%
12891 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
12892 \unvbox\@mpfootinsv@r
12893 \def\baselinestretch{\m@m@footnote@spacing}%
12894 \reset@font\RTLfoottextfont
12895 \hsize\columnwidth \@parboxrestore
12896 \protected@edef\@currentlabel{%
12897 \csname p@mpfootnote\endcsname\@thefnmark}%
12898 \color@begingroup
12899 \@eightcolRTLfootfmt{#1}%
12900 \color@endgroup}%
12901 \m@mmf@prepare}
12902 \bidi@ensure@newcommand{\m@make@eightcol@footgroup}[1]{%
12903 \@namedef{@eightcol@footgroup#1}{%
12904 \def\baselinestretch{\m@m@footnote@spacing}%
12905 \hsize\bidi@columnwidth
12906 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12907 \m@mrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}%
12908 \newcommand{\bidi@make@eightcol@LTRfootgroup}[1]{%
12909 \@namedef{@eightcol@LTRfootgroup#1}{%
12910 \def\baselinestretch{\m@m@footnote@spacing}%
12911 \hsize\bidi@columnwidth
12912 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12913 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}%
12914 \bidi@ensure@newcommand{\m@make@mpeightcol@footgroup}[1]{%
12915 \@namedef{@mpeightcol@footgroup#1}{%
12916 \def\baselinestretch{\m@m@footnote@spacing}%
12917 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12918 \m@mrigidbalance{\@nameuse{mpfootins#1}}{8}{\splittopskip}}}%
12919 \newcommand{\bidi@make@mpeightcol@LTRfootgroup}[1]{%
12920 \@namedef{@mpeightcol@LTRfootgroup#1}{%
12921 \def\baselinestretch{\m@m@footnote@spacing}%
12922 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox

```



```

12923 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{8}{\splittopskip}}
12924 \bidi@ensure@newcommand{\@ninecolumnfootnotes}{%
12925 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12926 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12927 \@bidi@before@Hy@hyperfootnotes
12928 \let\@footnotetext\@ninecolfootnotetext
12929 \let\@LTRfootnotetext\@ninecolLTRfootnotetext
12930 \let\@RTLfootnotetext\@ninecolRTLfootnotetext
12931 \dimen\footinsv@r=9\footinsdim
12932 \count\footinsv@r=111\relax
12933 \m@make@ninecol@footgroup{v@r}%
12934 \let\@footgroupv@r\@ninecol@footgroupv@r
12935 \dimen\footinsv@l=9\footinsdim
12936 \count\footinsv@l=111\relax
12937 \bidi@make@ninecol@LTRfootgroup{v@l}%
12938 \let\@LTRfootgroupv@l\@ninecol@LTRfootgroupv@l
12939 \let\@mpfootnotetext\@mpninecolfootnotetext
12940 \let\@mpLTRfootnotetext\@mpninecolLTRfootnotetext
12941 \let\@mpRTLfootnotetext\@mpninecolRTLfootnotetext
12942 \@bidi@after@Hy@hyperfootnotes
12943 \m@make@mpninecol@footgroup{v@r}%
12944 \let\mp@footgroupv@r\@mpninecol@footgroupv@r
12945 \bidi@make@mpninecol@LTRfootgroup{v@l}%
12946 \let\mp@LTRfootgroupv@l\@mpninecol@LTRfootgroupv@l
12947 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12948 }
12949 \bidi@ensure@newcommand{\@ninecolfootnotetext}[1]{\insert
12950 \if@RTL@footnote
12951 \footinsv@r
12952 \else
12953 \footinsv@l
12954 \fi
12955 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12956 \def\baselinestretch{\m@footnote@spacing}%
12957 \reset@font\foottextfont
12958 \@preamfntext
12959 \protected@edef\@currentlabel{%
12960 \csname p@footnote\endcsname\@thefnmark}%
12961 \color@begingroup
12962 \@ninecolfootfmt{#1}%
12963 \color@endgroup}%
12964 \m@mmf@prepare}
12965 \bidi@ensure@newcommand{\@ninecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12966 \def\baselinestretch{\m@footnote@spacing}%
12967 \reset@font\LTRfoottextfont
12968 \@preamfntext
12969 \protected@edef\@currentlabel{%
12970 \csname p@footnote\endcsname\@thefnmark}%
12971 \color@begingroup
12972 \@ninecolLTRfootfmt{#1}%
12973 \color@endgroup}%
12974 \m@mmf@prepare}
12975 \bidi@ensure@newcommand{\@ninecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12976 \def\baselinestretch{\m@footnote@spacing}%

```



```

12977 \reset@font\RTLfoottextfont
12978 \@preamfntext
12979 \protected@edef\@currentlabel{%
12980   \csname p@footnote\endcsname\@thefnmark}%
12981 \color@begingroup
12982   \@ninecolRTLfootfmt{#1}%
12983 \color@endgroup}%
12984 \m@mmf@prepare}
12985 \bidi@ensure@newcommand{\@preamninefmt}{%
12986   \hspace{.1\hspace}
12987   \parindent=\z@
12988   \tolerance=5000\relax
12989   \leavevmode}
12990 \bidi@ensure@newcommand{\@ninecolfootfmt}[1]{%
12991   \@preamninefmt
12992   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12993 \bidi@ensure@newcommand{\@ninecolLTRfootfmt}[1]{%
12994   \@preamninefmt
12995   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12996 \bidi@ensure@newcommand{\@ninecolRTLfootfmt}[1]{%
12997   \@preamninefmt
12998   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12999 \bidi@ensure@newcommand{\@mpninecolfootnotetext}[1]{%
13000   \global\setbox
13001     \if@RTL@footnote
13002     \@mpfootinsv@r
13003   \else
13004     \@mpfootinsv@l
13005   \fi
13006   \vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13007     \unvbox
13008     \if@RTL@footnote
13009     \@mpfootinsv@r
13010   \else
13011     \@mpfootinsv@l
13012   \fi
13013   \def\baselinestretch{\m@mm@footnote@spacing}%
13014   \reset@font\foottextfont
13015   \hspace\columnwidth \@parboxrestore
13016   \protected@edef\@currentlabel{%
13017     \csname p@mpfootnote\endcsname\@thefnmark}%
13018   \color@begingroup
13019     \@ninecolfootfmt{#1}%
13020   \color@endgroup}%
13021   \m@mmf@prepare}
13022 \bidi@ensure@newcommand{\@mpninecolLTRfootnotetext}[1]{%
13023   \global\setbox\@mpfootinsv@l\vbox{\@RTLfalse%
13024     \unvbox\@mpfootinsv@l
13025     \def\baselinestretch{\m@mm@footnote@spacing}%
13026     \reset@font\LTRfoottextfont
13027     \hspace\columnwidth \@parboxrestore
13028     \protected@edef\@currentlabel{%
13029       \csname p@mpfootnote\endcsname\@thefnmark}%
13030     \color@begingroup

```



```

13031 \@ninecolLTRfootfmt{#1}%
13032 \color@endgroup}%
13033 \m@mmf@prepare}
13034 \bidi@ensure@newcommand{\@mpninecolRTLfootnotetext}[1]{%
13035 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
13036 \unvbox\@mpfootinsv@r
13037 \def\baselinestretch{\m@m@footnote@spacing}%
13038 \reset@font\RTLfoottextfont
13039 \hsize\columnwidth \@parboxrestore
13040 \protected@edef\@currentlabel{%
13041 \csname p@mpfootnote\endcsname\@thefnmark}%
13042 \color@begingroup
13043 \@ninecolRTLfootfmt{#1}%
13044 \color@endgroup}%
13045 \m@mmf@prepare}
13046 \bidi@ensure@newcommand{\m@make@ninecol@footgroup}[1]{%
13047 \@namedef{@ninecol@footgroup#1}{%
13048 \def\baselinestretch{\m@m@footnote@spacing}%
13049 \hsize\bidi@columnwidth
13050 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13051 \m@mrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
13052 \newcommand{\bidi@make@ninecol@LTRfootgroup}[1]{%
13053 \@namedef{@ninecol@LTRfootgroup#1}{%
13054 \def\baselinestretch{\m@m@footnote@spacing}%
13055 \hsize\bidi@columnwidth
13056 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13057 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
13058 \bidi@ensure@newcommand{\m@make@mpninecol@footgroup}[1]{%
13059 \@namedef{@mpninecol@footgroup#1}{%
13060 \def\baselinestretch{\m@m@footnote@spacing}%
13061 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13062 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{9}{\splittopskip}}}}
13063 \newcommand{\bidi@make@mpninecol@LTRfootgroup}[1]{%
13064 \@namedef{@mpninecol@LTRfootgroup#1}{%
13065 \def\baselinestretch{\m@m@footnote@spacing}%
13066 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13067 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{9}{\splittopskip}}}}
13068 \bidi@ensure@newcommand{\tencolumnfootnotes}{%
13069 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13070 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13071 \@bidi@before@Hy@hyperfootnotes
13072 \let\@footnotetext\@tencolfootnotetext
13073 \let\@LTRfootnotetext\@tencolLTRfootnotetext
13074 \let\@RTLfootnotetext\@tencolRTLfootnotetext
13075 \dimen\footinsv@r=10\footinsdim
13076 \count\footinsv@r=100\relax
13077 \m@make@tencol@footgroup{v@r}%
13078 \let\@footgroupv@r\@tencol@footgroupv@r
13079 \dimen\footinsv@l=10\footinsdim
13080 \count\footinsv@l=100\relax
13081 \bidi@make@tencol@LTRfootgroup{v@l}%
13082 \let\@LTRfootgroupv@l\@tencol@LTRfootgroupv@l
13083 \let\@mpfootnotetext\@mptencolfootnotetext
13084 \let\@mpLTRfootnotetext\@mptencolLTRfootnotetext

```



```

13085 \let\@mpRTLfootnotetext\@mptencolRTLfootnotetext
13086 \@bidi@after@Hy@hyperfootnotes
13087 \m@make@emptencol@footgroup{v@r}%
13088 \let\mp@footgroupv@r\@mptencol@footgroupv@r
13089 \bidi@make@emptencol@LTRfootgroup{v@l}%
13090 \let\mp@LTRfootgroupv@l\@mptencol@LTRfootgroupv@l
13091 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13092 }
13093 \bidi@ensure@newcommand{\@tencolfootnotetext}[1]{\insert
13094 \if@RTL@footnote
13095 \footinsv@r
13096 \else
13097 \footinsv@l
13098 \fi
13099 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13100 \def\baselinestretch{\m@m@footnote@spacing}%
13101 \reset@font\foottextfont
13102 \@preamfntext
13103 \protected@edef\@currentlabel{%
13104 \csname p@footnote\endcsname\@thefnmark}%
13105 \color@begingroup
13106 \@tencolfootfmt{#1}%
13107 \color@endgroup}%
13108 \m@mmf@prepare}
13109 \bidi@ensure@newcommand{\@tencollTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13110 \def\baselinestretch{\m@m@footnote@spacing}%
13111 \reset@font\LTRfoottextfont
13112 \@preamfntext
13113 \protected@edef\@currentlabel{%
13114 \csname p@footnote\endcsname\@thefnmark}%
13115 \color@begingroup
13116 \@tencollTRfootfmt{#1}%
13117 \color@endgroup}%
13118 \m@mmf@prepare}
13119 \bidi@ensure@newcommand{\@tencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13120 \def\baselinestretch{\m@m@footnote@spacing}%
13121 \reset@font\RTLfoottextfont
13122 \@preamfntext
13123 \protected@edef\@currentlabel{%
13124 \csname p@footnote\endcsname\@thefnmark}%
13125 \color@begingroup
13126 \@tencolRTLfootfmt{#1}%
13127 \color@endgroup}%
13128 \m@mmf@prepare}
13129 \bidi@ensure@newcommand{\@preamtenfmt}{%
13130 \hspace{.1\hspace}
13131 \parindent=\z@
13132 \tolerance=5000\relax
13133 \leavevmode}
13134 \bidi@ensure@newcommand{\@tencolfootfmt}[1]{%
13135 \@preamtenfmt
13136 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13137 \bidi@ensure@newcommand{\@tencollTRfootfmt}[1]{%
13138 \@preamtenfmt

```



```

13139 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13140 \bidi@ensure@newcommand{\@tencolRTLfootfmt}[1]{%
13141   \@preamtenfmt
13142   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13143 \bidi@ensure@newcommand{\@mptencolfootnotetext}[1]{%
13144   \global\setbox
13145     \if@RTL@footnote
13146     \@mpfootinsv@r
13147   \else
13148     \@mpfootinsv@l
13149   \fi
13150   \vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13151     \unvbox
13152     \if@RTL@footnote
13153     \@mpfootinsv@r
13154   \else
13155     \@mpfootinsv@l
13156   \fi
13157   \def\baselinestretch{\m@m@footnote@spacing}%
13158   \reset@font\foottextfont
13159   \hsize\columnwidth \@parboxrestore
13160   \protected@edef\@currentlabel{%
13161     \csname p@mpfootnote\endcsname\@thefnmark}%
13162   \color@begingroup
13163     \@tencolfootfmt{#1}%
13164   \color@endgroup}%
13165   \m@mmf@prepare}
13166 \bidi@ensure@newcommand{\@mptencolLTRfootnotetext}[1]{%
13167   \global\setbox\@mpfootinsv@l\vbox{\@RTLfalse%
13168     \unvbox\@mpfootinsv@l
13169     \def\baselinestretch{\m@m@footnote@spacing}%
13170     \reset@font\LTRfoottextfont
13171     \hsize\columnwidth \@parboxrestore
13172     \protected@edef\@currentlabel{%
13173       \csname p@mpfootnote\endcsname\@thefnmark}%
13174     \color@begingroup
13175       \@tencolLTRfootfmt{#1}%
13176     \color@endgroup}%
13177   \m@mmf@prepare}
13178 \bidi@ensure@newcommand{\@mptencolRTLfootnotetext}[1]{%
13179   \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
13180     \unvbox\@mpfootinsv@r
13181     \def\baselinestretch{\m@m@footnote@spacing}%
13182     \reset@font\RTLfoottextfont
13183     \hsize\columnwidth \@parboxrestore
13184     \protected@edef\@currentlabel{%
13185       \csname p@mpfootnote\endcsname\@thefnmark}%
13186     \color@begingroup
13187       \@tencolRTLfootfmt{#1}%
13188     \color@endgroup}%
13189   \m@mmf@prepare}
13190 \bidi@ensure@newcommand{\m@make@tencol@footgroup}[1]{%
13191   \@namedef{\@tencol@footgroup#1}{%
13192     \def\baselinestretch{\m@m@footnote@spacing}%

```



```

13193 \hsize\bidicolumnwidth
13194 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13195 \m@mrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}
13196 \newcommand{\bidi@make@tencol@LTRfootgroup}[1]{%
13197 \@namedef{@tencol@LTRfootgroup#1}{%
13198 \def\baselinestretch{\m@m@footnote@spacing}%
13199 \hsize\bidicolumnwidth
13200 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13201 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}
13202 \bidi@ensure@newcommand{\m@make@mptencol@footgroup}[1]{%
13203 \@namedef{@mptencol@footgroup#1}{%
13204 \def\baselinestretch{\m@m@footnote@spacing}%
13205 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13206 \m@mrigidbalance{\@nameuse{mpfootins#1}}{10}{\splittopskip}}}
13207 \newcommand{\bidi@make@mptencol@LTRfootgroup}[1]{%
13208 \@namedef{@mptencol@LTRfootgroup#1}{%
13209 \def\baselinestretch{\m@m@footnote@spacing}%
13210 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13211 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{10}{\splittopskip}}}
13212 \bidi@ensure@newcommand{\m@m@unvxh}[1]{%
13213 \setbox0=\vbox{\unvbox#1%
13214 \global\setbox1=\lastbox}%
13215 \unhbox1
13216 \unskip
13217 \unskip
13218 \unpenalty
13219 \hskip\m@mipn@skip}
13220 \bidi@ensure@newcommand{\m@m@ungebox}{%
13221 \setbox0=\hbox{\m@m@unvxh0}%
13222 \dp0=\z@
13223 \ht0=\footfudgefactor\wd0
13224 \box0
13225 \penalty0}
13226 \newskip\m@mipn@skip
13227 \bidi@ensure@newcommand*{\m@minterparanoteglu}[1]{%
13228 {\foottextfont\global\m@mipn@skip=#1\relax}}
13229 \m@minterparanoteglu{1em plus.3em minus.3em}
13230 \bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
13231 \setbox0=\hbox{}%
13232 \loop
13233 \unpenalty
13234 \setbox2=\lastbox
13235 \ifhbox2
13236 \setbox0=\hbox{\box2\unhbox0}
13237 \repeat}
13238 \bidi@ensure@newcommand*{\m@mremovehboxes}{\setbox0=\lastbox
13239 \ifhbox0{\m@mremovehboxes}\unhbox0 \fi}
13240 \newcommand*{\AddExtraParaSkip}[1]{%
13241 \def\bidi@xparaskip{\advance\@tempdima#1\relax}%
13242 }
13243 \let\bidi@xparaskip\relax
13244 \@onlypreamble\AddExtraParaSkip
13245 \@onlypreamble\bidi@xparaskip
13246 \def\bidi@startparafootskip#1{%

```



```

13247 \global\advance\skip#1\bidiparaskip
13248 }
13249 \@onlypreamble\bidistartparafootskip
13250 \bidi@ensure@newcommand{\paragraphfootnotes}{%
13251 \namedef{foottextfontv@r}{\foottextfont}% % [RS]
13252 \namedef{foottextfontv@l}{\LTRfoottextfont}%
13253 \@bidi@before@Hy@hyperfootnotes
13254 \let\@footnotetext\@parafootnotetext
13255 \let\@LTRfootnotetext\@paraLTRfootnotetext
13256 \let\@RTLfootnotetext\@paraRTLfootnotetext
13257 \dimen\footinsv@r=\footinsdim
13258 \count\footinsv@r=1000\relax
13259 \let\bidi@removexfootskip\bidi@removexparafootskip
13260 \m@make@para@footgroup{v@r}%
13261 \m@make@para@footstart{v@r}%
13262 \let\@footgroupv@r\@para@footgroupv@r
13263 \let\@footstartv@r\@para@footstartv@r
13264 \dimen\footinsv@l=\footinsdim
13265 \count\footinsv@l=1000\relax
13266 \bidi@make@para@LTRfootgroup{v@l}%
13267 \m@make@para@footstart{v@l}%
13268 \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
13269 \let\@footstartv@l\@para@footstartv@l
13270 \let\@mpfootnotetext\@mpparafootnotetext
13271 \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
13272 \let\@mpRTLfootnotetext\@mpparaRTLfootnotetext
13273 \@bidi@after@Hy@hyperfootnotes
13274 \m@make@mppara@footgroup{v@r}%
13275 \bidi@make@mppara@LTRfootgroup{v@l}%
13276 \let\mp@footgroupv@r\@mppara@footgroupv@r
13277 \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
13278 \g@addto@macro\bidi@floathook{%
13279 \begingroup
13280 \foottextfont \@tempdima\normalbaselineskip
13281 \multiply \@tempdima \@cclvi
13282 \@tempdimb \columnwidth
13283 \divide \@tempdimb \@cclvi
13284 \divide \@tempdima \@tempdimb
13285 \xdef\footfudgefactor{\strip@pt\@tempdima}%
13286 \endgroup
13287 }
13288 \AtBeginDocument{%
13289 \begingroup
13290 \foottextfont
13291 \@tempdima\footnotesep
13292 \advance\@tempdima -\ht\strutbox
13293 \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
13294 \advance\@tempdima.5\normalbaselineskip
13295 \bidi@xparaskip
13296 \xdef\bidi@paraskip{\the\@tempdima\relax}%
13297 \endgroup
13298 \bidi@startparafootskip\footinsv@r
13299 \bidi@startparafootskip\footinsv@l
13300 }

```





```

13301 \ifstar\bidistar@footmarkwidth\bidinormal@footmarkwidth
13302 }
13303 \newcommand{\normalRTLparaLTRfootnotes}{%
13304 \namedef{foottextfontv@1}{\LTRfoottextfont}%
13305 \@bidi@before@Hy@hyperfootnotes
13306 \if@RTL@footnote
13307 \let\@footnotetext\m@mold@footnotetext
13308 \else
13309 \let\@footnotetext\@parafootnotetext
13310 \fi
13311 \let\@LTRfootnotetext\@paraLTRfootnotetext
13312 \let\@RTLfootnotetext\m@mold@RTLfootnotetext
13313 \dimen\footinsv@1=\footinsdim
13314 \count\footinsv@1=1000\relax
13315 \let\@bidi@removexfootskip\@bidi@removexparafootskip
13316 \@bidi@make@para@LTRfootgroup{v@1}%
13317 \m@make@para@footstart{v@1}%
13318 \let\@LTRfootgroupv@1\@para@LTRfootgroupv@1
13319 \let\@footstartv@1\@para@footstartv@1
13320 \if@RTL@footnote
13321 \let\@mpfootnotetext\m@mold@mpfootnotetext
13322 \else
13323 \let\@mpfootnotetext\@mpparafootnotetext
13324 \fi
13325 \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
13326 \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
13327 \@bidi@after@Hy@hyperfootnotes
13328 \@bidi@make@mppara@LTRfootgroup{v@1}%
13329 \let\mp@LTRfootgroupv@1\@mppara@LTRfootgroupv@1
13330 \g@addto@macro\@bidi@floathook{%
13331 \begingroup
13332 \LTRfoottextfont \@tempdima\normalbaselineskip
13333 \multiply \@tempdima \@cclvi
13334 \@tempdimb \columnwidth
13335 \divide \@tempdimb \@cclvi
13336 \divide \@tempdima \@tempdimb
13337 \xdef\footfudgefactor{\strip@pt\@tempdima}%
13338 \endgroup
13339 }
13340 \AtBeginDocument{%
13341 \begingroup
13342 \LTRfoottextfont
13343 \@tempdima\footnotesep
13344 \advance\@tempdima -\ht\strutbox
13345 \ifdim\@tempdima<z@ \@tempdima\z@ \fi
13346 \advance\@tempdima.5\normalbaselineskip
13347 \bidi@xparaskip
13348 \xdef\@bidi@paraskip{\the\@tempdima\relax}%
13349 \endgroup
13350 \bidi@startparafootskip\footinsv@1
13351 }
13352 \ifstar\bidistar@footmarkwidth\bidinormal@footmarkwidth
13353 }
13354 \bidi@ensure@newcommand{\@parafootnotetext}[1]{\insert

```



```

13355 \if@RTL@footnote
13356   \footinsv@r
13357 \else
13358   \footinsv@l
13359 \fi
13360 {%
13361 \let\bid@RTL@everypar\@empty%
13362 \def\baselinestretch{\m@m@footnote@spacing}%
13363 \reset@font\foottextfont
13364 \@preamfntext
13365 \protected@edef\@currentlabel{%
13366   \csname p@footnote\endcsname\@thefnmark}%
13367 \setbox0=\vbox{\hsize=\maxdimen
13368   \color@begingroup
13369     \noindent \@parafootfmt{#1}%
13370   \color@endgroup}%
13371 \m@mungebox}\m@mmf@prepare}
13372 \bid@ensure@newcommand{\@paraLTRfootnotetext}[1]{\insert\footinsv@l{%
13373 \let\bid@RTL@everypar\@empty%
13374 \def\baselinestretch{\m@m@footnote@spacing}%
13375 \reset@font\LTRfoottextfont
13376 \@preamfntext
13377 \protected@edef\@currentlabel{%
13378   \csname p@footnote\endcsname\@thefnmark}%
13379 \setbox0=\vbox{\hsize=\maxdimen
13380   \color@begingroup
13381     \noindent \@paraLTRfootfmt{#1}%
13382   \color@endgroup}%
13383 \m@mungebox}\m@mmf@prepare}
13384 \bid@ensure@newcommand{\@paraRTLfootnotetext}[1]{\insert\footinsv@r{%
13385 \let\bid@RTL@everypar\@empty%
13386 \def\baselinestretch{\m@m@footnote@spacing}%
13387 \reset@font\RTLfoottextfont
13388 \@preamfntext
13389 \protected@edef\@currentlabel{%
13390   \csname p@footnote\endcsname\@thefnmark}%
13391 \setbox0=\vbox{\hsize=\maxdimen
13392   \color@begingroup
13393     \noindent \@paraRTLfootfmt{#1}%
13394   \color@endgroup}%
13395 \m@mungebox}\m@mmf@prepare}
13396 \bid@ensure@newcommand{\@parafootfmt}[1]{%
13397 \parindent=\z@
13398 \parfillskip=0pt \@plus 1fil
13399 {\footfootmark\strut {\foottextfont #1}\penalty-10}}
13400 \bid@ensure@newcommand{\@paraLTRfootfmt}[1]{%
13401 \parindent=\z@
13402 \parfillskip=0pt \@plus 1fil
13403 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\penalty-10}}
13404 \bid@ensure@newcommand{\@paraRTLfootfmt}[1]{%
13405 \parindent=\z@
13406 \parfillskip=0pt \@plus 1fil
13407 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\penalty-10}}
13408 \bid@ensure@newcommand{\@mpparafootnotetext}[1]{%

```



```

13409 \global\setbox
13410 \if@RTL@footnote
13411 \@mpfootinsv@r
13412 \else
13413 \@mpfootinsv@l
13414 \fi
13415 \vbox{%
13416 \let\bid@RTL@everypar\@empty%
13417 \def\baselinestretch{\m@m@footnote@spacing}%
13418 \unvbox
13419 \if@RTL@footnote
13420 \@mpfootinsv@r
13421 \else
13422 \@mpfootinsv@l
13423 \fi
13424 \reset@font\foottextfont
13425 \hsize\columnwidth \@parboxrestore
13426 \protected@edef\@currentlabel{%
13427 \csname p@mpfootnote\endcsname\@thefnmark}%
13428 \setbox0=\vbox{\hsize=\maxdimen
13429 \color@begingroup
13430 \noindent \@parafootfmt{#1}%
13431 \color@endgroup}%
13432 \m@mungebox}\m@mmf@prepare}
13433 \bidi@ensure@newcommand{\@mpparaLTRfootnotetext}[1]{%
13434 \global\setbox\@mpfootinsv@l\vbox{%
13435 \let\bid@RTL@everypar\@empty%
13436 \def\baselinestretch{\m@m@footnote@spacing}%
13437 \unvbox\@mpfootinsv@l
13438 \reset@font\LTRfoottextfont
13439 \hsize\columnwidth \@parboxrestore
13440 \protected@edef\@currentlabel{%
13441 \csname p@mpfootnote\endcsname\@thefnmark}%
13442 \setbox0=\vbox{\hsize=\maxdimen
13443 \color@begingroup
13444 \noindent \@paraLTRfootfmt{#1}%
13445 \color@endgroup}%
13446 \m@mungebox}\m@mmf@prepare}
13447 \bidi@ensure@newcommand{\@mpparaRTLfootnotetext}[1]{%
13448 \global\setbox\@mpfootinsv@r\vbox{%
13449 \let\bid@RTL@everypar\@empty%
13450 \def\baselinestretch{\m@m@footnote@spacing}%
13451 \unvbox\@mpfootinsv@r
13452 \reset@font\RTLfoottextfont
13453 \hsize\columnwidth \@parboxrestore
13454 \protected@edef\@currentlabel{%
13455 \csname p@mpfootnote\endcsname\@thefnmark}%
13456 \setbox0=\vbox{\hsize=\maxdimen
13457 \color@begingroup
13458 \noindent \@paraRTLfootfmt{#1}%
13459 \color@endgroup}%
13460 \m@mungebox}\m@mmf@prepare}
13461 \bidi@ensure@newcommand{\m@make@para@footgroup}[1]{%
13462 \@namedef{para@footgroup#1}{%

```



```

13463 \unvbox\@nameuse{footins#1}
13464 \@RTLtrue
13465 \m@mmakehboxofhboxes
13466 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13467 \hsize\bidicolumnwidth
13468 \@parboxrestore
13469 \def\baselinestretch{\m@m@footnote@spacing}%
13470 \@nameuse{foottextfont#1}%
13471 \noindent\unhbox0\par}}
13472 \bidi@ensure@newcommand{\bidi@make@para@LTRfootgroup}[1]{%
13473 \@namedef{@para@LTRfootgroup#1}{%
13474 \unvbox\@nameuse{footins#1}
13475 \@RTLfalse
13476 \m@mmakehboxofhboxes
13477 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13478 \hsize\bidicolumnwidth
13479 \@parboxrestore
13480 \def\baselinestretch{\m@m@footnote@spacing}%
13481 \@nameuse{foottextfont#1}%
13482 \noindent\unhbox0\par}}
13483 \newcommand{\bidi@removexparafootskip}{%
13484 \advance\@tempskipa -\bidi@paraskip
13485 \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
13486 }
13487 \let\bidi@removexfootskip\relax
13488 \bidi@ensure@newcommand{\m@m@make@mppara@footgroup}[1]{%
13489 \@namedef{@mppara@footgroup#1}{%
13490 \unvbox\@nameuse{@mpfootins#1}
13491 \@RTLtrue
13492 \m@mmakehboxofhboxes
13493 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13494 \def\baselinestretch{\m@m@footnote@spacing}%
13495 \@nameuse{foottextfont#1}%
13496 \noindent\unhbox0\par}}
13497 \bidi@ensure@newcommand{\bidi@make@mppara@LTRfootgroup}[1]{%
13498 \@namedef{@mppara@LTRfootgroup#1}{%
13499 \unvbox\@nameuse{@mpfootins#1}
13500 \@RTLfalse
13501 \m@mmakehboxofhboxes
13502 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13503 \def\baselinestretch{\m@m@footnote@spacing}%
13504 \@nameuse{foottextfont#1}%
13505 \noindent\unhbox0\par}}
13506 \bidi@ensure@newcommand{\m@m@make@para@footstart}[1]{%
13507 \@namedef{@para@footstart#1}{%
13508 \leftskip=\z@
13509 \rightskip=\z@
13510 \parindent=\z@
13511 }%
13512 }
13513 \bidi@ensure@newcommand*{\m@m@makecolfloats}{%
13514 \xdef\@freelist{\@freelist\@midlist}%
13515 \global\let\@midlist\@empty
13516 \@combinefloats}

```



```

13517 \bidi@ensure@newcommand*{\m@m@makecoltext}{%
13518   \ifvbox\@kludgeins
13519     \@makespecialcolbox
13520   \else
13521     \setbox\@outputbox \vbox to\@colht{%
13522       \@texttop
13523       \dimen@ \dp\@outputbox
13524       \unvbox \@outputbox
13525       \vskip -\dimen@
13526       \@textbottom}%
13527   \fi}
13528 \bidi@ensure@newcommand*{\m@m@makecolintro}{%
13529 \bidi@ensure@newcommand*{\m@mopfootnote}{\setbox\@outputbox \vbox{%
13530   \boxmaxdepth\@maxdepth
13531   \@tempdima\dp\@ccclv
13532   \unvbox\@ccclv
13533   \vskip-\@tempdima
13534   \bidi@mopfn@bottom
13535   \vskip \skip\footins
13536   \color@begingroup
13537     \normalcolor
13538     \footnoterule
13539     \unvbox \footins
13540   \color@endgroup
13541   }%
13542 }
13543 \newcommand*{\bidi@mopfootnotebf}{%
13544   \setbox\@outputbox \vbox{%
13545     \boxmaxdepth\@maxdepth
13546     \unvbox\@outputbox
13547     \bidi@mopfn@bottom
13548     \vskip\skip\footins
13549     \color@begingroup
13550       \normalcolor
13551       \footnoterule
13552       \unvbox \footins
13553     \color@endgroup
13554   }%
13555 }
13556 \gdef\mem@makecol{%
13557   \m@m@makecolintro
13558   \m@m@doextrafeet
13559   \ifvoid\footins
13560     \setbox\@outputbox \box\@ccclv
13561   \else
13562     \m@mopfootnote
13563   \fi
13564   \m@m@makecolfloats
13565   \m@m@makecoltext
13566   \global \maxdepth \@maxdepth}
13567 \gdef\bidi@makecolbf{%
13568   \m@m@makecolintro
13569   \m@m@doextrafeet
13570   \setbox\@outputbox \box\@ccclv

```



```

13571 \m@m@makecolfloats
13572 \ifvoid\footins
13573 \else
13574 \bidi@mopfootnotebf
13575 \fi
13576 \m@m@makecoltext
13577 \global \maxdepth \@maxdepth}
13578 \newcommand{\FeetAboveFloat}{\gdef\@makecol{\mem@makecol}}
13579 \newcommand{\FeetBelowFloat}{\gdef\@makecol{\bidi@makecolbf}}
13580 \newcommand\FeetAtBottom{\def\bidi@mopfn@bottom{\vfill\relax}}
13581 \newcommand\FeetBelowRagged{\let\bidi@mopfn@bottom\relax}
13582 \FeetAboveFloat
13583 \FeetBelowRagged
13584 \def\bidi@reinserts#1{\ifvoid#1\else
13585 \ifnum\count\@currbox>\z@
13586 \advance\@pageht \ht#1%
13587 \advance\@pageht \skip#1%
13588 \advance\@pageht \dp#1%
13589 \fi
13590 \insert#1{\unvbox#1}%
13591 \fi
13592 }
13593 \def\bidi@init@multi@footins#1{%
13594 \multiply\count#1\col@number
13595 \multiply\skip#1\col@number
13596 }
13597 \def\bidi@reinsert@footnotes#1{\ifvoid#1\else
13598 \insert#1{}\fi}
13599 \AtBeginDocument{%
13600 \bidi@preto\@doclearpage\m@m@doextrafeet
13601 \g@addto@macro\@reinserts{%
13602 \bidi@reinserts\footinsv@r
13603 \bidi@reinserts\footinsv@l
13604 }
13605 \bidi@floathook
13606 \g@addto@macro\@floatplacement{%
13607 \bidi@ifmulticol{}\bidi@floathook}%
13608 }%
13609 \if@bidi@csundef{multi@column@out}{%
13610 \@onlypreamble\bidi@init@multi@footins
13611 \let\bidi@ifmulticol\@secondoftwo
13612 }{%
13613 \bidi@preto\multi@column@out\m@m@doextrafeet
13614 \g@addto@macro\init@mult@footins{%
13615 \bidi@init@multi@footins\footinsv@r
13616 \bidi@init@multi@footins\footinsv@l
13617 }%
13618 \g@addto@macro\reinsert@footnotes{%
13619 \bidi@reinsert@footnotes\footinsv@r
13620 \bidi@reinsert@footnotes\footinsv@l
13621 }%
13622 }%
13623 }

```



## 87 File extreport-xetex-bidi.def

```

13624 \ProvidesFile{extreport-xetex-bidi.def}[2017/06/09 v0.3 bidi adaptations for extreport class]
13625 \renewcommand*\l@part[2]{%
13626   \ifnum \c@tocdepth >-2\relax
13627     \addpenalty{-\@highpenalty}%
13628     \addvspace{2.25em \@plus\p@}%
13629     \begingroup
13630       \setlength\@tempdima{3em}%
13631       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
13632       \parfillskip -\@pnumwidth
13633       {\leavevmode
13634         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
13635       \nobreak
13636       \global\@nobreaktrue
13637       \everypar{\global\@nobreakfalse\everypar{}}%
13638     \endgroup
13639   \fi}
13640 \renewcommand*\l@chapter[2]{%
13641   \ifnum \c@tocdepth >\m@ne
13642     \addpenalty{-\@highpenalty}%
13643     \vskip 1.0em \@plus\p@
13644     \setlength\@tempdima{1.5em}%
13645     \begingroup
13646       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
13647       \parfillskip -\@pnumwidth
13648       \leavevmode \bfseries
13649       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
13650       \hskip -\if@RTL\rightskip\else\leftskip\fi
13651       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
13652       \penalty\@highpenalty
13653     \endgroup
13654   \fi}
13655 \def\@makechapterhead#1{%
13656   \vspace*{50\p@}%
13657   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
13658     \ifnum \c@secnumdepth >\m@ne
13659       \huge\bfseries \@chapapp\space \thechapter
13660       \par\nobreak
13661       \vskip 20\p@
13662     \fi
13663     \interlinepenalty\@M
13664     \Huge \bfseries #1\par\nobreak
13665     \vskip 40\p@
13666   }}
13667 \def\@makeschapterhead#1{%
13668   \vspace*{50\p@}%
13669   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
13670     \normalfont
13671     \interlinepenalty\@M
13672     \Huge \bfseries #1\par\nobreak
13673     \vskip 40\p@
13674   }}
13675 \renewcommand\left@footnoterule{%

```



```

13676 \kern-3\p@
13677 \hrule\@width.4\columnwidth
13678 \kern2.6\p@}
13679 \renewcommand\right@footnoterule{%
13680 \kern-3\p@
13681 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
13682 \kern2.6\p@}
13683 \renewenvironment{thebibliography}[1]
13684 {\chapter*{\bibname
13685 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
13686 \ifRTL\ifLTRbibitems\RTLfalse\else\fi\else\ifRTLbibitems\RTLtrue\else\fi\fi
13687 \bidi@@thebibliography@font@hook%
13688 \list{\@biblabel{\@arabic\c@enumiv}}%
13689 {\settowidth\labelwidth{\@biblabel{#1}}%
13690 \leftmargin\labelwidth
13691 \advance\leftmargin\labelsep
13692 \@openbib@code
13693 \usecounter{enumiv}%
13694 \let\p@enumiv\@empty
13695 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
13696 \sloppy\clubpenalty4000\widowpenalty4000%
13697 \sfcode`. \@m}
13698 {\def\@noitemerr
13699 {\@latex@warning{Empty `thebibliography' environment}}%
13700 \endlist}
13701 \if@titlepage
13702 \renewcommand\maketitle{\begin{titlepage}%
13703 \let\footnotesize\small
13704 \let\right@footnoterule\relax
13705 \let\left@footnoterule\relax
13706 \let\textwidth\footnoterule\relax
13707 \let \footnote \thanks
13708 \null\vfil
13709 \vskip 60\p@
13710 \begin{center}%
13711 {\LARGE \@title \par}%
13712 \vskip 3em%
13713 {\large
13714 \lineskip .75em%
13715 \begin{tabular}[t]{c}%
13716 \@author
13717 \end{tabular}\par}%
13718 \vskip 1.5em%
13719 {\large \@date \par}% % Set date in \large size.
13720 \end{center}\par
13721 \@thanks
13722 \vfil\null
13723 \end{titlepage}%
13724 \setcounter{footnote}{0}%
13725 \global\let\thanks\relax
13726 \global\let\maketitle\relax
13727 \global\let\@thanks\@empty
13728 \global\let\@author\@empty
13729 \global\let\@date\@empty

```





```

13730 \global\let\@title\@empty
13731 \global\let\title\relax
13732 \global\let\author\relax
13733 \global\let\date\relax
13734 \global\let\and\relax
13735 }
13736 \else
13737 \renewcommand\maketitle{\par
13738 \begin{group}
13739 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
13740 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
13741 \long\def\@makefntext##1{\parindent 1em\noindent
13742 \hb@xt@1.8em{%
13743 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
13744 \if@twocolumn
13745 \ifnum \col@number=\@ne
13746 \maketitle
13747 \else
13748 \twocolumn[\maketitle]%
13749 \fi
13750 \else
13751 \newpage
13752 \global\@topnum\z@ % Prevents figures from going at top of page.
13753 \maketitle
13754 \fi
13755 \thispagestyle{plain}\@thanks
13756 \end{group}
13757 \setcounter{footnote}{0}%
13758 \global\let\thanks\relax
13759 \global\let\maketitle\relax
13760 \global\let\@maketitle\relax
13761 \global\let\@thanks\@empty
13762 \global\let\@author\@empty
13763 \global\let\@date\@empty
13764 \global\let\@title\@empty
13765 \global\let\title\relax
13766 \global\let\author\relax
13767 \global\let\date\relax
13768 \global\let\and\relax
13769 }
13770 \def\@maketitle{%
13771 \newpage
13772 \null
13773 \vskip 2em%
13774 \begin{center}%
13775 \let \footnote \thanks
13776 {\LARGE \@title \par}%
13777 \vskip 1.5em%
13778 {\large
13779 \lineskip .5em%
13780 \begin{tabular}[t]{c}%
13781 \@author
13782 \end{tabular}\par}%
13783 \vskip 1em%

```



```

13784    {\large \@date}%
13785    \end{center}%
13786    \par
13787    \vskip 1.5em}
13788 \fi
13789 \renewcommand\thesection    {\thechapter\@SepMark\@arabic\c@section}
13790 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
13791 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
13792 \renewcommand\theparagraph  {\thesubsubsection\@SepMark\@arabic\c@paragraph}
13793 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
13794 \renewcommand\theequation{%
13795   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
13796 \renewcommand\thefigure{%
13797   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
13798 \renewcommand\thetable{%
13799   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}

```

## 88 File fancybox-xetex-bidi.def

```

13800 \ProvidesFile{fancybox-xetex-bidi.def}[2013/05/01 v0.1 bidi adaptations for fancybox package]
13801 \def\fancy@oval#1#2#3{%
13802   \boxmaxdepth \maxdimen
13803   \@ovttrue \@ovbtrue \@ovltrue \@ovrtrue
13804   \@tfor\@tempa :=#3\do{\csname @ov\@tempa false\endcsname}%
13805   \@ovxx#1\relax
13806   \advance\@ovxx-\@wholewidth
13807   \@ovyy#2\relax
13808   \advance\@ovyy-\@wholewidth
13809   \@tempdimb \ifdim \@ovyy >\@ovxx \@ovxx \@ovxx\else \@ovyy \fi
13810   \advance\@tempdimb-2\p@
13811   \ifdim\@tempdimb>\the@cornersize\relax
13812     \@tempdimb=\the@cornersize
13813   \fi
13814   \@getcirc\@tempdimb
13815   \@ovro\ht\@tempboxa \@ovri\dp\@tempboxa
13816   \@ovdx\@ovxx \advance\@ovdx-\@tempdima \divide\@ovdx \tw@
13817   \@ovdy\@ovyy \advance\@ovdy-\@tempdima \divide\@ovdy \tw@
13818   \@circlefnt
13819   \setbox\@tempboxa\hbox{\beginL%
13820     \if@ovr \@ovvert32\kern -\@tempdima \fi
13821     \if@ovl \kern \@ovxx \@ovvert01\kern -\@tempdima \kern -\@ovxx \fi
13822     \if@ovt \@ovhorz \kern -\@ovxx \fi
13823     \if@ovb \raise \@ovyy \@ovhorz \fi\endL}%
13824   \advance\@ovdx\@ovro
13825   \advance\@ovdy\@ovro
13826   \advance\@ovxx\@wholewidth
13827   \wd\@tempboxa=\@ovxx
13828   \dp\@tempboxa=\z@}

```

## 89 File fancyhdr-xetex-bidi.def

```

13829 \ProvidesFile{fancyhdr-xetex-bidi.def}[2018/02/15 v0.7 bidi adaptations for fancyhdr package]
13830
13831 \let\f@nch@everypar\everypar

```



```

13832
13833 \def\fnch@head#1#2#3#4#5{#1\hbox to\headwidth{\fnch@reset
13834   \fnch@vbox\headheight{\hbox
13835     {\rlap{\parbox[b]{\headwidth}{\bidi@raggedright#2}}\hfill
13836     \parbox[b]{\headwidth}{\centering#3}\hfill
13837     \llap{\parbox[b]{\headwidth}{\bidi@raggedleft#4}}}\headrule}}#5}
13838
13839 \def\fnch@foot#1#2#3#4#5{#1\hbox to\headwidth{\fnch@reset
13840   \fnch@vbox\footskip{\footrule
13841     \hbox{\rlap{\parbox[t]{\headwidth}{\bidi@raggedright#2}}\hfill
13842     \parbox[t]{\headwidth}{\centering#3}\hfill
13843     \llap{\parbox[t]{\headwidth}{\bidi@raggedleft#4}}}\hfill}}#5}
13844

```

## 90 File fix2col-xetex-bidi.def

```

13845 \ProvidesFile{fix2col-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for fix2col package f
13846 \def\RTL@outputdblcol{%
13847   \if@firstcolumn
13848     \global\@firstcolumnfalse
13849     \global\setbox\@leftcolumn\copy\@outputbox
13850     \splitmaxdepth\maxdimen
13851     \vbadness\maxdimen
13852     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
13853     \toks@\expandafter{\topmark}%
13854     \xdef\@firstcoltopmark{\the\toks@}%
13855     \toks@\expandafter{\splitfirstmark}%
13856     \xdef\@firstcolfirstmark{\the\toks@}%
13857     \ifx\@firstcolfirstmark\@empty
13858       \global\let\@setmarks\relax
13859     \else
13860       \gdef\@setmarks{%
13861         \let\firstmark\@firstcolfirstmark
13862         \let\topmark\@firstcoltopmark}%
13863     \fi
13864   \else \global\@firstcolumntrue
13865     \setbox\@outputbox\vbox{\hbox to\textwidth{%
13866       \hskip\columnwidth
13867       \hfil\vrule width\columnseprule\hfil
13868       \hbox to\columnwidth{%
13869         \bidi@firstcolumn@status@write%
13870         \box\@leftcolumn\hss}%
13871       \hskip-\textwidth
13872       \hbox to\columnwidth{%
13873         \bidi@lastcolumn@status@write%
13874         \box\@outputbox\hss}%
13875       \hskip\columnsep
13876       \hskip\columnwidth}}%
13877     \@combinedblfloats\@setmarks\@outputpage
13878     \begingroup\@dblfloatplacement\@startdblcolumn
13879     \@whiles\if@fcolmade\fi
13880     {\@outputpage\@startdblcolumn}\endgroup
13881   \fi}
13882 \def\LTR@outputdblcol{%

```



```

13883 \if@firstcolumn
13884   \global\@firstcolumnfalse
13885   \global\setbox\@leftcolumn\copy\@outputbox
13886   \splitmaxdepth\maxdimen
13887   \vbadness\maxdimen
13888   \setbox\@outputbox\vsplit\@outputbox to\maxdimen
13889   \toks@\expandafter{\topmark}%
13890   \xdef\@firstcoltopmark{\the\toks@}%
13891   \toks@\expandafter{\splitfirstmark}%
13892   \xdef\@firstcolfirstmark{\the\toks@}%
13893   \ifx\@firstcolfirstmark\@empty
13894     \global\let\@setmarks\relax
13895   \else
13896     \gdef\@setmarks{%
13897       \let\firstmark\@firstcolfirstmark
13898       \let\topmark\@firstcoltopmark}%
13899   \fi
13900 \else
13901   \global\@firstcolumntrue
13902   \setbox\@outputbox\vbox{%
13903     \hb@xt@\textwidth{%
13904       \hb@xt@\columnwidth{%
13905         \bidi@firstcolumn@status@write%
13906         \box\@leftcolumn \hss}%
13907       \hfil
13908       \vrule \@width\columnseprule
13909       \hfil
13910       \hb@xt@\columnwidth{%
13911         \bidi@lastcolumn@status@write%
13912         \box\@outputbox \hss}}}%
13913 \@combinedblfloats
13914 \@setmarks
13915 \@outputpage
13916 \begingroup
13917 \@dblfloatplacement
13918 \@startdblcolumn
13919 \@whilesw\if@fcolmade \fi{\@outputpage\@startdblcolumn}%
13920 \endgroup
13921 \fi}

```

## 91 File fleqn-xetex-bidi.def

```

13922 \ProvidesFile{fleqn-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for fleqn tag for XeTeX]
13923 \renewcommand\[{ \relax
13924   \ifmmode\@badmath
13925   \else
13926     \begin{trivlist}%
13927       \@beginparpenalty\predisplaypenalty
13928       \@endparpenalty\postdisplaypenalty
13929       \item[]\leavevmode
13930       \hb@xt@\linewidth\bgrou \beginL$\m@th\displaystyle %$
13931       \hskip\mathindent\bgrou
13932     \fi}
13933 \renewcommand\]{ \relax

```



```

13934         \ifmmode
13935             \egroup $\hfil% $
13936         \endL\egroup
13937         \end{trivlist}%
13938     \else \@badmath
13939     \fi}
13940 \renewenvironment{equation}%
13941     {\@beginparpenalty\predisplaypenalty
13942     \@endparpenalty\postdisplaypenalty
13943     \refstepcounter{equation}%
13944     \trivlist \item[]\leavevmode
13945     \hb@xt@\linewidth\bgrouper\beginL $\m@th% $
13946     \displaystyle
13947     \hskip\mathindent}%
13948     {$\hfil % $
13949     \displaywidth\linewidth\hbox{\@eqnnum}%
13950     \endL\egroup
13951     \endtrivlist}

```

## 92 File float-xetex-bidi.def

```

13952 \ProvidesFile{float-xetex-bidi.def}[2013/04/04 v0.2 bidi adaptations for float package for X
13953 \renewcommand\floatc@plain[2]{\setbox\@tempboxa\hbox{\@fs@cfont #1:} #2}%
13954 \ifdim\wd\@tempboxa>\hsize {\@fs@cfont #1:} #2\par
13955 \else\hbox to\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}\fi}
13956 \def\float@newx#1[#2]{\@ifundefined{c@#1}{\newcounter{#1}[#2]%
13957     \expandafter\edef\csname the#1\endcsname{%
13958     \expandafter\noexpand\csname
13959     the#2\endcsname\@SepMark\noexpand\arabic{#1}}}%
13960     {\PackageWarning{float}{Can't redefine counter variable for #1.}}}

```

## 93 File floatrow-xetex-bidi.def

```

13961 \ProvidesFile{floatrow-xetex-bidi.def}[2013/04/08 v0.1 bidi adaptations for floatrow package
13962 \renewcommand\flnew@within[1]{\@addtoreset{FB@c@type}{#1}%
13963     \expandafter\edef\csname theFB@c@type\endcsname{%
13964     \expandafter\noexpand\csname
13965     the#1\endcsname\@SepMark\noexpand\arabic{FB@c@type}}}%

```

## 94 File flowfram-xetex-bidi.def

```

13966 \ProvidesFile{flowfram-xetex-bidi.def}[2018/09/29 v0.5 bidi adaptations for flowfram package
13967 \def\@outputdblcol{%
13968     \c@nxtcol=\c@thisframe
13969     \c@curpg=\c@page
13970     \g@tnextcol{\c@nxtcol}%
13971     \if@ff@nwpg % next flow frame starts on new page
13972     \global\@firstcolumntrue
13973     \@setcolbox\c@thisframe
13974     \if@specialpage
13975     \global\@specialpagefalse
13976     \nameuse{ps@\@specialstyle}\relax
13977     \fi
13978     \if@twoside

```



```

13979 \ifodd\count\z@
13980 \let\@thehead\@oddhead
13981 \let\@thefoot\@oddfoot
13982 \else
13983 \let\@thehead\@evenhead
13984 \let\@thefoot\@evenfoot
13985 \fi
13986 \else
13987 \let\@thehead\@oddhead
13988 \let\@thefoot\@oddfoot
13989 \fi
13990 \@begindvi
13991 \@dynamicthehead\@dynamicthefoot
13992 \vbadness=\@M
13993 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ffdo@allframes}}}%
13994 \@combinedblfloats
13995 \@outputpage
13996 \advance\c@curpg by -\c@page\relax
13997 \whiledo{\c@curpg>0}{\advance\c@curpg by -1\relax
13998 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ffdo@allframes}}}%
13999 \@outputpage}
14000 \begingroup
14001 \@dblfloatplacement
14002 \@startdblcolumn
14003 \@whilesw \if@colmade \fi
14004 {\@outputpage \@startdblcolumn }\endgroup
14005 \@resetst@tics
14006 \@resetdyn@mics
14007 \else % still on same page, save contents of box255
14008 \global\@firstcolumnfalse
14009 \setcolbox\c@thisframe
14010 \fi
14011 \global\c@thisframe=\@nxtcol
14012 \@setcol{\c@thisframe}\relax
14013 \global\@colht\vsiz
14014 }
14015 \def\@outputpage{%
14016 \begingroup
14017 \let\protect\noexpand
14018 \@resetactivechars
14019 \global\let\@if@newlist@if@newlist
14020 \global\@newlistfalse\@parboxrestore
14021 \global\let\@bidi@BeforeOutputPageShipOut\@firstofone
14022 \bidi@beforeoutputpageshipouthook
14023 \shipout\vbox{\set@typeset@protect
14024 \aftergroup
14025 \endgroup
14026 \aftergroup
14027 \set@typeset@protect
14028 \reset@font\normalsize
14029 \bidi@font@@outputpage
14030 \normalsfcodes
14031 \let\label\@gobble
14032 \let\index\@gobble

```



```

14033 \let\glossary\@gobble
14034 \baselineskip\z@skip
14035 \lineskip\z@skip
14036 \lineskiplimit\z@
14037 \vskip\topmargin\moveright\@themargin
14038 \vbox{%
14039 \global\let\bidibeforeheader\@firstofone
14040 \bidibeforeheaderhook
14041 \vskip\headheight
14042 \vskip\headsep
14043 \global\let\bidibeforeoutputbox\@firstofone
14044 \bidibeforeoutputboxoutputpagehook
14045 \box\@outputbox
14046 \global\let\bidiafteroutputbox\@firstofone
14047 \bidiafteroutputboxoutputpagehook
14048 }%
14049 \global\let\bidiafteroutputpageshipout\@firstofone
14050 \bidiafteroutputpageshipouthook
14051 \global\let\ifnewlist\@ifnewlist
14052 \stepcounter{page}%
14053 \setcounter{displayedframe}{0}%
14054 \let\firstmark\botmark
14055 \global\let\bidiatendoutputpage\@firstofone
14056 \bidiatendoutputpagehook
14057 }
14058
14059
14060 \newcommand*\bidis@tfftextcol{\ifthenelse{\equal{\ff@txtcol}{}}{}{%
14061 \expandafter\bidicolor\ff@txtcol}}
14062
14063 \newcommand{\bidiff@box}[3]{\@ffbackground{\vbox to#2
14064 {\hb@xt@ #1{\hss{\bidis@tfftextcol #3}\hss}\vss\kern\z@}}}%
14065
14066
14067 \renewcommand*\@docolbox}[1]{%
14068 \edef\ff@frametype{%
14069 \csname @ff@frametype@\romannumeral#1\endcsname}%
14070 \edef\ff@col{\csname @ff@col@\romannumeral#1\endcsname}%
14071 \edef\ff@txtcol{\csname @ff@txtcol@\romannumeral#1\endcsname}%
14072 \edef\ff@backcol{\csname @ff@backcol@\romannumeral#1\endcsname}%
14073 \@ff@setoffset{#1}%
14074 \rotateframe{\csname @ff@angle@\romannumeral#1\endcsname}{%
14075 \ifthenelse{\boolean{columnframe\romannumeral#1}}{%
14076 \@ff@fbox{\csname colwidth\romannumeral#1\endcsname}%
14077 {\csname colheight\romannumeral#1\endcsname}{%
14078 \expandafter\box\csname column\romannumeral#1\endcsname}{%
14079 \csname\ff@frametype\endcsname}%
14080 }{%
14081 \bidiff@box{\csname colwidth\romannumeral#1\endcsname}%
14082 {\csname colheight\romannumeral#1\endcsname}{%
14083 \expandafter\box\csname column\romannumeral#1\endcsname}%
14084 }}}
14085 \@ifclassloaded{book}{%
14086 \renewcommand\theequation

```



```

14087 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
14088 \renewcommand \thefigure
14089 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
14090 \renewcommand \thetable
14091 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
14092 \renewcommand \thechapter {\@arabic\c@chapter}
14093 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
14094 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
14095 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
14096 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
14097 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}{}
14098 \ifclassloaded{report}{%
14099 \renewcommand \theequation
14100 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
14101 \renewcommand \thefigure
14102 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
14103 \renewcommand \thetable
14104 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
14105 \renewcommand \thechapter {\@arabic\c@chapter}
14106 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
14107 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
14108 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
14109 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
14110 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}{}
14111 \renewcommand{\rotateframe}[2]{\if@tbtb\rotate
14112 \rotatebox{#1}{\if@RTL\beginL\fi#2\if@RTL\endL\fi}%
14113 \else
14114 #2\relax
14115 \fi}

```

## 95 File footnote-xetex-bidi.def

```

14116 \ProvidesFile{footnote-xetex-bidi.def}[2017/08/09 v1.1 bidi footnote macros for XeTeX engine]
14117 \if@RTLmain\@RTL@footnotetrue\else\@RTL@footnotefalse\fi
14118 \newif\ifbidi@autofootnoterule
14119 \def\bidi@mpfootnoterule{\footnoterule}
14120 \newcounter{footdir@label}
14121 \renewcommand*{\thefootdir@label}{\footdir@the\value{footdir@label}}
14122 \newcommand*{\footdir@write}{%
14123 \stepcounter{footdir@label}%
14124 \zref@labelbyprops{\thefootdir@label}{abspage}%
14125 }
14126 \newif\iffootdir@debug
14127 \newcommand*{\debugfootnotedirection}{\footdir@debugtrue}
14128 \newtoks\footdir@toks
14129 \newcommand*{\footdir@debug}[1]{%
14130 \iffootdir@debug
14131 \typeout{[footdir] #1}%
14132 \fi
14133 }
14134 %\@ifpackagelater{zref-abspage}{2012/10/27}{%
14135 \newcommand*{\footdir@LeftRightElse}{%
14136 \ltx@ifundefined{footdir@the\value{zabspage}}{%
14137 \footdir@debug{abspage \the\value{zabspage}: else}%

```





```

14138 %      \ltx@thirdofthree
14139 %    }{%
14140 %      \if\csname footdir@\the\value{zabspage}\endcsname L%
14141 %        \footdir@debug{abspage \the\value{zabspage}: left}%
14142 %        \expandafter\ltx@firstofthree
14143 %      \else
14144 %        \footdir@debug{abspage \the\value{zabspage}: right}%
14145 %        \expandafter\ltx@secondofthree
14146 %      \fi
14147 %    }%
14148 %  }%
14149 %}{%
14150 %  \providecommand*{\c@zabspage}{\c@abspage}%
14151 %  \newcommand*{\footdir@LeftRightElse}{%
14152 %    \footdir@write
14153 %    \zifrefundefined{\thefootdir@label}{%
14154 %      \footdir@debug{abspage ??: else}%
14155 %      \ltx@thirdofthree
14156 %    }{%
14157 %      \edef\footdir@abspage{%
14158 %        \zref@extractdefault{\thefootdir@label}{abspage}{0}%
14159 %      }%
14160 %      \ltx@ifundefined{footdir@\footdir@abspage}{%
14161 %        \footdir@debug{\footdir@abspage: else}%
14162 %        \ltx@thirdofthree
14163 %      }{%
14164 %        \if\csname footdir@\footdir@abspage\endcsname L%
14165 %          \footdir@debug{\footdir@abspage: left}%
14166 %          \expandafter\ltx@firstofthree
14167 %        \else
14168 %          \footdir@debug{\footdir@abspage: right}%
14169 %          \expandafter\ltx@secondofthree
14170 %        \fi
14171 %      }%
14172 %    }%
14173 %  }%
14174 %}
14175 %\newcommand*{\footdir@fntext}[1]{%
14176 %  \zifrefundefined{\thefootdir@label}{%
14177 %  }{%
14178 %    \edef\footdir@name{%
14179 %      footdir@\zref@extractdefault{\thefootdir@label}{abspage}{0}%
14180 %    }%
14181 %    \@ifundefined{\footdir@name}{%
14182 %      \expandafter\gdef\csname\footdir@name\endcsname{#1}%
14183 %    }{}%
14184 %  }%
14185 %}
14186
14187 %\newcommand*{\footdir@temp}[3]{%
14188 %  \@ifdefinable{#1}{%
14189 %    \let#1#2%
14190 %    \renewcommand{#2}[1]{%
14191 %      \footdir@write

```



```

14192 \footdir@fntext{#3}%
14193 \stepcounter{footdir@label}%
14194 \footdir@fntext{#3}%
14195 \footdir@toks{##1}%
14196 \footdir@toks\expandafter{%
14197 \the\expandafter\footdir@toks
14198 \expandafter
14199 \zref@labelbyprops\expandafter{\the\footdir@label}{abspage}%
14200 }%
14201 \expandafter#1\expandafter{\the\footdir@toks}%
14202 }%
14203 }%
14204 }
14205
14206 \def\right@footnoterule{%
14207 \kern-3\p@
14208 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
14209 \kern2.6\p@}
14210 \def\left@footnoterule{\kern-3\p@
14211 \hrule \@width .4\columnwidth \kern 2.6\p@}
14212 \def\textwidth@footnoterule{\kern-3\p@
14213 \hrule \@width \columnwidth \kern 2.6\p@}
14214 \def\leftfootnoterule{%
14215 \bidi@autofootnoterulefalse%
14216 \def\footnoterule{\left@footnoterule}}
14217 \let\LRfootnoterule=\leftfootnoterule
14218 \def\rightfootnoterule{%
14219 \bidi@autofootnoterulefalse%
14220 \def\footnoterule{\right@footnoterule}}
14221 \def\textwidthfootnoterule{%
14222 \bidi@autofootnoterulefalse%
14223 \def\footnoterule{\textwidth@footnoterule}}
14224
14225
14226
14227 \def\auto@footnoterule{%
14228 \footdir@LeftRightElse%
14229 \left@footnoterule%
14230 \right@footnoterule%
14231 \left@footnoterule%
14232 }
14233
14234
14235
14236 \def\autofootnoterule{%
14237 \bidi@autofootnoteruletrue%
14238 \def\footnoterule{\auto@footnoterule}%
14239 }
14240
14241 \newcommand*\{SplitFootnoteRule}\{%
14242 \gdef\split@prev{0}
14243 \let\pagefootnoterule\footnoterule
14244 \let\mpfootnoterule\footnoterule
14245 \def\splitfootnoterule{\kern-3\p@ \hrule \kern2.6\p@}

```



```

14246 \def\footnoterule{\relax
14247 \ifx \@listdepth\@mplistdepth
14248 \mpfootnoterule
14249 \else
14250 \ifnum\split@prev=\z@
14251 \pagefootnoterule
14252 \else
14253 \splitfootnoterule
14254 \fi
14255 \xdef\split@prev{\the\insertpenalties}%
14256 \fi
14257 }%
14258 }
14259
14260
14261
14262
14263 \def\RTLfootnote{\@ifnextchar[\@xRTLfootnote{\stepcounter\@mpfn
14264 \protected@xdef\@thefnmark{\thempfn}%
14265 \@footnotemark\@RTLfootnotetext}}
14266 \def\@xRTLfootnote[#1]{%
14267 \begingroup
14268 \csname c@\@mpfn\endcsname #1\relax
14269 \unrestored@protected@xdef\@thefnmark{\thempfn}%
14270 \endgroup
14271 \@footnotemark\@RTLfootnotetext}
14272 \def\LTRfootnote{\@ifnextchar[\@xLTRfootnote{\stepcounter\@mpfn
14273 \protected@xdef\@thefnmark{\thempfn}%
14274 \@footnotemark\@LTRfootnotetext}}
14275 \def\@xLTRfootnote[#1]{%
14276 \begingroup
14277 \csname c@\@mpfn\endcsname #1\relax
14278 \unrestored@protected@xdef\@thefnmark{\thempfn}%
14279 \endgroup
14280 \@footnotemark\@LTRfootnotetext}
14281
14282
14283 \def\setfootnoteRL{\@RTL@footnotetrue}
14284 \def\unsetfootnoteRL{\@RTL@footnotefalse}
14285 \def\setfootnoteLR{\unsetfootnoteRL}
14286
14287 \newcommand*{\bidi@footnotetext@font}{\footnotesize}
14288 \newcommand*{\bidi@LTRfootnotetext@font}{\footnotesize}
14289 \newcommand*{\bidi@RTLfootnotetext@font}{\footnotesize}
14290
14291 \long\def\@footnotetext#1{\insert\footins{%
14292 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14293 \reset@font%
14294 \bidi@footnotetext@font% \reset@font\footnotesize
14295 \interlinepenalty\interfootnotelinepenalty
14296 \splittopskip\footnotesep
14297 \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
14298 \hsize\columnwidth \@parboxrestore
14299 \protected@edef\@currentlabel{%

```



```

14300      \csname p@footnote\endcsname\@thefnmark
14301    }%
14302    \color@begingroup
14303      \makefntext{%
14304        \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14305      \color@endgroup}}%
14306
14307
14308 \long\def\@RTLfootnotetext#1{\insert\footins{%
14309   \RTLtrue%
14310   \reset@font%
14311   \bidi@RTLfootnotetext@font% \reset@font\footnotesize
14312   \interlinepenalty\interfootnotelinepenalty
14313   \splittopskip\footnotesep
14314   \splitmaxdepth \dp\strutbox \floatingpenalty \MM
14315   \hsize\columnwidth \@parboxrestore
14316   \protected@edef\@currentlabel{%
14317     \csname p@footnote\endcsname\@thefnmark
14318   }%
14319   \color@begingroup
14320     \makefntext{%
14321       \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14322     \color@endgroup}}%
14323
14324 \long\def\@LTRfootnotetext#1{\insert\footins{%
14325   \RTLfalse%
14326   \reset@font%
14327   \bidi@LTRfootnotetext@font% \reset@font\footnotesize
14328   \interlinepenalty\interfootnotelinepenalty
14329   \splittopskip\footnotesep
14330   \splitmaxdepth \dp\strutbox \floatingpenalty \MM
14331   \hsize\columnwidth \@parboxrestore
14332   \protected@edef\@currentlabel{%
14333     \csname p@footnote\endcsname\@thefnmark
14334   }%
14335   \color@begingroup
14336     \makefntext{%
14337       \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14338     \color@endgroup}}%
14339
14340 \AtBeginDocument{%
14341 \ifRTL@footnote
14342   \newcommand*{\bidi@footdir@footnote}{R}
14343 \else
14344   \newcommand*{\bidi@footdir@footnote}{L}
14345 \fi%
14346 }
14347
14348 \footdir@temp\footdir@ORG\bidi@footnotetext\@footnotetext{\bidi@footdir@footnote}%
14349 \footdir@temp\footdir@ORG\bidi@RTLfootnotetext\@RTLfootnotetext{R}%
14350 \footdir@temp\footdir@ORG\bidi@LTRfootnotetext\@LTRfootnotetext{L}%
14351
14352 \long\def\@mpRTLfootnotetext#1{%
14353   \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@foot

```



```

14354 \global\setbox\@mpfootins\vbox{\@RTLtrue%
14355 \unvbox\@mpfootins
14356 \reset@font%
14357 \bidi@RTLfootnotetext@font% \reset@font\footnotesize
14358 \hsize\columnwidth
14359 \@parboxrestore
14360 \protected@edef\@currentlabel
14361 {\csname p@mpfootnote\endcsname\@thefnmark}%
14362 \color@begingroup
14363 \@makefntext{%
14364 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14365 \color@endgroup}}
14366 \long\def\@mpLTRfootnotetext#1{%
14367 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footno
14368 \global\setbox\@mpfootins\vbox{\@RTLfalse%
14369 \unvbox\@mpfootins
14370 \reset@font%
14371 \bidi@LTRfootnotetext@font% \reset@font\footnotesize
14372 \hsize\columnwidth
14373 \@parboxrestore
14374 \protected@edef\@currentlabel
14375 {\csname p@mpfootnote\endcsname\@thefnmark}%
14376 \color@begingroup
14377 \@makefntext{%
14378 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14379 \color@endgroup}}
14380 \long\def\@mpfootnotetext#1{%
14381 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\bidi@mpfootnote
14382 \global\setbox\@mpfootins\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14383 \unvbox\@mpfootins
14384 \reset@font%
14385 \bidi@footnotetext@font% \reset@font\footnotesize
14386 \hsize\columnwidth
14387 \@parboxrestore
14388 \protected@edef\@currentlabel
14389 {\csname p@mpfootnote\endcsname\@thefnmark}%
14390 \color@begingroup
14391 \@makefntext{%
14392 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14393 \color@endgroup}}
14394 \def\@iiiminipage#1#2[#3]#4{%
14395 \leavevmode
14396 \@pboxswfalse
14397 \if@hboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
14398 \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi
14399 \setlength\@tempdima{#4}%
14400 \def\@mpargs{{#1}{#2}[#3]{#4}}%
14401 \setbox\@tempboxa\vbox\bgroup
14402 \color@begingroup
14403 \hsize\@tempdima
14404 \textwidth\hsize \columnwidth\hsize
14405 \@parboxrestore
14406 \def\@mpfn{mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
14407 \let\@footnotetext\@mpfootnotetext

```



```

14408 \let\@LTRfootnotetext\@mpLTRfootnotetext
14409 \let\@RTLfootnotetext\@mpRTLfootnotetext
14410 \let\@listdepth\@mplistdepth \@mplistdepth\z@
14411 \@minipagerestore
14412 \setminipage}
14413 \def\endminipage{%
14414 \par
14415 \unskip
14416 \ifvoid\@mpfootins\else
14417 \vskip\skip\@mpfootins
14418 \normalcolor
14419 \bidi\@mpfootnoterule
14420 \unvbox\@mpfootins
14421 \fi
14422 \@minipagefalse %% added 24 May 89
14423 \color@endgroup
14424 \egroup
14425 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
14426 \def\LTRthanks#1{\footnotemark
14427 \protected@xdef\@thanks{\@thanks
14428 \protect\LTRfootnotetext[\the\c@footnote]{#1}}%
14429 }
14430 \def\LTRfootnotetext{%
14431 \ifnextchar [\@xLTRfootnotenext
14432 {\protected@xdef\@thefnmark{\thempfn}%
14433 \@LTRfootnotetext}}
14434 \def\@xLTRfootnotenext[#1]{%
14435 \begingroup
14436 \csname c@\@mpfn\endcsname #1\relax
14437 \unrestored@protected@xdef\@thefnmark{\thempfn}%
14438 \endgroup
14439 \@LTRfootnotetext}
14440 \def\RTLthanks#1{\footnotemark
14441 \protected@xdef\@thanks{\@thanks
14442 \protect\RTLfootnotetext[\the\c@footnote]{#1}}%
14443 }
14444 \let\@thanks\@empty
14445 \def\RTLfootnotetext{%
14446 \@ifnextchar [\@xRTLfootnotenext
14447 {\protected@xdef\@thefnmark{\thempfn}%
14448 \@RTLfootnotetext}}
14449 \def\@xRTLfootnotenext[#1]{%
14450 \begingroup
14451 \csname c@\@mpfn\endcsname #1\relax
14452 \unrestored@protected@xdef\@thefnmark{\thempfn}%
14453 \endgroup
14454 \@RTLfootnotetext}
14455 \leftfootnoterule

```

## 96 File footnotebackref-xetex-bidi.def

```

14456 \ProvidesFile{footnotebackref-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for footnote]
14457 \LetLtxMacro{\BHFN@OldLTRFootnote}{\LTRfootnote}
14458 \LetLtxMacro{\BHFN@OldRTLFootnote}{\RTLfootnote}

```



```

14459
14460 \renewcommand*\LTRfootnote{%
14461     \refstepcounter{BackrefHyperFootnoteCounter}%
14462     \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
14463     \label{\BackrefFootnoteTag}%
14464     \@ifnextchar [\Backref@OptLTRHyperFootnote\Backref@HyperLTRFootnote}
14465
14466 \renewcommand*\RTLfootnote{%
14467     \refstepcounter{BackrefHyperFootnoteCounter}%
14468     \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
14469     \label{\BackrefFootnoteTag}%
14470     \@ifnextchar [\Backref@OptRTLHyperFootnote\Backref@HyperRTLFootnote}
14471 \newcommand\Backref@HyperLTRFootnote[1]{%
14472     \BHFN@OldLTRFootnote{\Backref@HyperSymbol#1}}
14473
14474 \newcommand\Backref@HyperRTLFootnote[1]{%
14475     \BHFN@OldRTLFootnote{\Backref@HyperSymbol#1}}
14476
14477 \newcommand\Backref@OptHyperLTRFootnote[2][\empty]{%
14478     \BHFN@OldLTRFootnote[#1]{\Backref@HyperSymbol#2}}
14479
14480 \newcommand\Backref@OptHyperRTLFootnote[2][\empty]{%
14481     \BHFN@OldRTLFootnote[#1]{\Backref@HyperSymbol#2}}
14482
14483 \bidi@AfterFile{extrafootnotefeatures-xetex-bidi.def}{%
14484 \ifFootnoteBackref@numberlinked
14485 \renewcommand{\footfootmark}{%
14486     \ifdim\footmarkwidth < \z@
14487         \llap{\hb@xt@ -\footmarkwidth{%
14488             \hss\normalfont\footscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%
14489             \hspace*{ -\footmarkwidth}}}%
14490     \else
14491         \ifdim\footmarkwidth = \z@
14492             {\normalfont\footscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%
14493         \else
14494             \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}
14495         \fi
14496     \fi}
14497 \renewcommand{\LTRfootfootmark}{%
14498     \ifdim\footmarkwidth < \z@
14499         \llap{\hb@xt@ -\footmarkwidth{%
14500             \hss\normalfont\LTRfootscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%
14501             \hspace*{ -\footmarkwidth}}}%
14502     \else
14503         \ifdim\footmarkwidth = \z@
14504             {\normalfont\LTRfootscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%
14505         \else
14506             \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}
14507         \fi
14508     \fi}
14509 \renewcommand{\RTLfootfootmark}{%
14510     \ifdim\footmarkwidth < \z@
14511         \llap{\hb@xt@ -\footmarkwidth{%
14512             \hss\normalfont\RTLfootscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%

```



```

14513         \hspace*{-\footmarkwidth}}%
14514     \else
14515         \ifdim\footmarkwidth = \z@
14516             {\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14517         \else
14518             \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14519         \fi
14520     \fi}
14521 \fi
14522 }

```

## 97 File framed-xetex-bidi.def

```

14523 \ProvidesFile{framed-xetex-bidi.def}[2012/06/05 v0.3 bidi adaptations for framed package for xetex]
14524 \renewcommand\TitleBarFrame[3] [] {\begingroup
14525     \ifx\delimiter#1\delimiter
14526         \let\TF@conlab\@empty
14527     \else
14528         \def\TF@conlab{% continuation label
14529             \nointerlineskip
14530             \smash{\rlap{\kern\wd\@tempboxa\kern\fb@rule\kern\fb@sep #1}}}%
14531     \fi
14532     %\let\TF@savecolor\current@color
14533     \textcolor{TF@FrameColor}{%
14534         \CustomFBox
14535             {\TF@Title{#2}}{\TF@conlab}%
14536             \fb@rule\fb@rule\fb@rule\fb@rule
14537             %{\let\current@color\TF@savecolor\set@color #3}%
14538             {\normalcolor #3}%
14539     } \endgroup
14540 }
14541 \renewenvironment{titled-frame}[1] {%
14542     \def\FrameCommand{\fb@sep8pt\fb@rule2pt
14543         \TitleBarFrame{\textbf{#1}}}%
14544     \def\FirstFrameCommand{\fb@sep8pt\fb@rule2pt
14545         \TitleBarFrame[{\if@RTL\blacktriangleleft\else\blacktriangleright\fi}]{\textbf{#1}}}%
14546     \def\MidFrameCommand{\fb@sep8pt\fb@rule2pt
14547         \TitleBarFrame[{\if@RTL\blacktriangleleft\else\blacktriangleright\fi}]{\textbf{#1\ (cont)}}}%
14548     \def\LastFrameCommand{\fb@sep8pt\fb@rule2pt
14549         \TitleBarFrame{\textbf{#1\ (cont)}}}%
14550     \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
14551 % note: 8 + 2 + 8 + 2 = 20. Don't use \width because the frame title
14552 % could interfere with the width measurement.
14553 {\endMakeFramed}
14554 \chardef\FrameRestore=\catcode`\| % for debug
14555 \catcode`\|=\catcode`\% (debug: insert space after backslash)
14556 \def\fb@put@frame#1#2{\relax
14557     \ifdim\pagegoal=\maxdimen \pagegoal\vsize \fi
14558     | \message{===== Entering putframe =====}^J
14559     | \pagegoal=\the\pagegoal, \pagetotal=\the\pagetotal.}%
14560 \ifinner
14561     \fb@putboxa#1%
14562     \fb@afterframe
14563 \else

```





```

14564 \dimen@ \pagegoal \advance \dimen@ - \pagetotal % natural space left on page
14565 \ifdim \dimen@ < 2 \baselineskip % Too little room on page
14566 | \message{Page has only \the \dimen@ \space room left; eject. }%
14567 \eject \fb@adjheight \fb@put@frame#1#2%
14568 \else % there's appreciable room left on the page
14569 \fb@sizeofframe#1%
14570 | \message{\string \pagetotal = \the \pagetotal,
14571 | \string \pagegoal = \the \pagegoal,
14572 | \string \pagestretch = \the \pagestretch,
14573 | \string \pageshrink = \the \pageshrink,
14574 | \string \fb@frh = \the \fb@frh. \space}
14575 | \message{^^JBox of size \the \ht \@tempboxa \space}%
14576 \begingroup % temporarily set \dimen@ to be...
14577 \advance \dimen@ .8 \pageshrink % maximum space available on page
14578 \advance \dimen@ - \fb@frh \relax % max space available for frame's contents
14579 %%% LOOKS SUBTRACTED AND ADDED, SO DOUBLE ACCOUNTING!
14580 \expandafter \endgroup
14581 % expand \ifdim, then restore \dimen@ to real room left on page
14582 \ifdim \dimen@ > \ht \@tempboxa % whole box does fit
14583 | \message{fits in \the \dimen@. }%
14584 % ToDo: Change this to use vsplit anyway to capture the marks
14585 % MERGE THIS WITH THE else CLAUSE!!!
14586 \fb@putboxa#1%
14587 \fb@afterframe
14588 \else % box must be split
14589 | \message{must be split to fit in \the \dimen@. }%
14590 % update frame measurement to use \FirstFrameCommand or \MidFrameCommand
14591 \fb@sizeofframe#2%
14592 \setbox \@tempboxa \vbox{% simulate frame and flexibility of the page:
14593 \vskip \fb@frh \@plus \pagestretch \@minus .8 \pageshrink
14594 \kern 137sp \kern -137sp \penalty -30
14595 \unvbox \@tempboxa}%
14596 \edef \fb@resto@set{\boxmaxdepth \the \boxmaxdepth
14597 \splittopskip \the \splittopskip}%
14598 \boxmaxdepth \z@ \splittopskip \z@
14599 | \message{^^JPadded box of size \the \ht \@tempboxa \space split to \the \dimen@}%
14600 % Split box here
14601 \setbox \tw@ \vsplit \@tempboxa to \dimen@
14602 | \toks99 \expandafter{\splitfirstmark}%
14603 | \toks98 \expandafter{\splitbotmark}%
14604 | \message{Marks are: \the \toks99, \the \toks98. }%
14605 \setbox \tw@ \vbox{\unvbox \tw@}% natural-sized
14606 | \message{Natural height of split box is \the \ht \tw@, leaving
14607 | \the \ht \@tempboxa \space remainder. }%
14608 % If the split-to size > (\vsize - \topskip), then set box to full size.
14609 \begingroup
14610 \advance \dimen@ \topskip
14611 \expandafter \endgroup
14612 \ifdim \dimen@ > \pagegoal
14613 | \message{Frame is big -- Use up the full column. }%
14614 \dimen@ ii \pagegoal
14615 \advance \dimen@ ii - \topskip
14616 \advance \dimen@ ii \FrameHeightAdjust \relax
14617 \else % suspect this is implemented incorrectly:

```



```

14618      % If the split-to size > feasible room_on_page, rebox it smaller.
14619      \advance\dimen@.8\pageshrink
14620      \ifdim\ht\tw@>\dimen@
14621 |      \message{Box too tall; rebox it to \the\dimen@. }%
14622      \dimen@ii\dimen@
14623      \else % use natural size
14624      \dimen@ii\ht\tw@
14625      \fi
14626      \fi
14627      % Re-box contents to desired size \dimen@ii
14628      \advance\dimen@ii -\fb@frh
14629      \setbox\tw@\vbox to\dimen@ii \bgroup
14630      % remove simulated frame and page flexibility:
14631      \vskip -\fb@frh \@plus-\pagestretch \@minus-.8\pageshrink
14632      \unvbox\tw@ \unpenalty\unpenalty
14633      \ifdim\lastkern=-137sp % whole box went to next page
14634 |      \message{box split at beginning! }%
14635      % need work here???
14636      \egroup \fb@resto@set \eject % (\vskip for frame size was discarded)
14637      \fb@adjheight
14638      \fb@put@frame#1#2% INSERTED ???
14639      \else % Got material split off at the head
14640      \egroup \fb@resto@set
14641      \ifvoid\@tempboxa % it all fit after all
14642 |      \message{box split at end! }%
14643      \setbox\@tempboxa\box\tw@
14644      \fb@putboxa#1%
14645      \fb@afterframe
14646      \else % it really did split
14647 |      \message{box split as expected. Its reboxed height is \the\ht\tw@. }%
14648      \ifdim\wd\tw@>\z@
14649      \wd\tw@\wd\@tempboxa
14650      \centerline{#2{\hboxL{\box\tw@}}}% ??? \centerline bad idea
14651      \else
14652 |      \message{Zero width means likely blank. Don't frame it (guess)}%
14653      \box\tw@
14654      \fi
14655      \hrule \@height\z@ \@width\hsize
14656      \eject
14657      \fb@adjheight
14658      \fb@put@frame\LastFrameCommand\MidFrameCommand
14659      \fi\fi\fi\fi\fi
14660 }
14661 \def\fb@putboxa#1{%
14662   \ifvoid\@tempboxa
14663     \PackageWarning{framed}{Boxa is void -- discard it. }%
14664   \else
14665     \message{Frame and place boxa. }%
14666     %{\showoutput\showbox\@tempboxa}%
14667     \centerline{#1{\hboxL{\box\@tempboxa}}}%
14668   \fi
14669 }
14670 \catcode`\|=\FrameRestore
14671 \def\FrameRestore{%

```



```

14672 \let\if@nobreak\iffalse
14673 \let\if@noskipsec\iffalse
14674 \let\-\@dischyph
14675 \let'\@acci\let'\@accii\let\=\@acciii
14676 % \message{FrameRestore:
14677 %   \@totalleftmargin=\the \@totalleftmargin,
14678 %   \rightmargin=\the\rightmargin,
14679 %   \@listdepth=\the\@listdepth. }%
14680 % Test if we are in a list (or list-like paragraph)
14681 \ifnum \ifdim\@totalleftmargin>\z@ 1\fi
14682   \ifdim\rightmargin>\z@ 1\fi
14683   \ifnum\@listdepth>\z@ 1\fi 0>\z@
14684   % \message{In a list: \linewidth=\the\linewidth, \@totalleftmargin=\the\@totalleftmargin,
14685   %   \parshape=\the\parshape, \columnwidth=\the\columnwidth, \hsize=\the\hsize,
14686   %   \labelwidth=\the\labelwidth. }%
14687   \@setminipage % snug fit around the item
14688   % Now try to propagate changes of width from \hsize to list parameters.
14689   % This is deficient, but a more advanced way to indicate modification to text
14690   % dimensions is not (yet) provided; in particular, no separate left/right
14691   % adjustment.
14692   \advance\linewidth-\columnwidth \advance\linewidth\hsize
14693   \parshape\@ne \@totalleftmargin \linewidth
14694 \else % Not in list
14695   \linewidth=\hsize
14696   %\message{No list, set \string\linewidth=\the\hsize. }%
14697 \fi
14698 \sloppy
14699 }

```

## 98 File ftnright-xetex-bidi.def

```

14700 \ProvidesFile{ftnright-xetex-bidi.def}[2018/09/29 v0.6 bidi adaptations for ftnright package]
14701
14702 \def\prepare@bidi@copyins{%
14703   \global\bidi@rcol@copyinsskip\skip\@bidi@copyins@
14704   \global\skip\@bidi@copyins@\z@
14705   \global\count\@bidi@copyins@\z@
14706   \global\dimen\@bidi@copyins@\textheight}
14707
14708 \newskip\bidi@rcol@copyinsskip
14709
14710 \def\LTR@outputdblcol{%
14711   \if@firstcolumn
14712     \global\@firstcolumnfalse
14713     \global\setbox\@leftcolumn\copy\@outputbox
14714     \global\count\footins\@m
14715     \global\skip\footins\rcol@footinsskip
14716     \global\count\@bidi@copyins@\@m
14717     \global\skip\@bidi@copyins@\bidi@rcol@copyinsskip
14718     \splitmaxdepth\maxdimen
14719     \vbadness\maxdimen
14720     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
14721     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14722     \toks@\expandafter{\topmark}%

```



```

14723 \xdef\@firstcoltopmark{\the\toks@}%
14724 \toks@\expandafter{\splitfirstmark}%
14725 \xdef\@firstcolfirstmark{\the\toks@}%
14726 \ifx\@firstcolfirstmark\@empty
14727 \global\let\@setmarks\relax
14728 \else
14729 \gdef\@setmarks{%
14730 \let\firstmark\@firstcolfirstmark
14731 \let\topmark\@firstcoltopmark}%
14732 \fi
14733 \else
14734 \preparefootins
14735 \prepare@bidi@copyins
14736 \global\@firstcolumntrue
14737 \setbox\@outputbox\vbox{%
14738 \hb@xt@\textwidth{%
14739 \hb@xt@\columnwidth{%
14740 \bidi@firstcolumn@status@write%
14741 \box\@leftcolumn \hss}%
14742 \hfil
14743 {\normalcolor\vrule \@width\columnseprule}%
14744 \hfil
14745 \hb@xt@\columnwidth{%
14746 \bidi@lastcolumn@status@write%
14747 \box\@outputbox \hss}}}%
14748 \@combinedblfloats
14749 \@setmarks
14750 \@outputpage
14751 \begingroup
14752 \@dblfloatplacement
14753 \@startdblcolumn
14754 \@whiles\if@colmade \fi{\@outputpage
14755 \@startdblcolumn}%
14756 \endgroup
14757 \fi}%
14758
14759 \def\RTL@outputdblcol{%
14760 \if@firstcolumn
14761 \global\@firstcolumnfalse
14762 \global\setbox\@leftcolumn\copy\@outputbox
14763 \global\count\footins\@m
14764 \global\skip\footins\rcol@footinsskip
14765 \global\count\@bidi@copyins\@m
14766 \global\skip\@bidi@copyins\@bidi@rcol@copyinsskip
14767 \splitmaxdepth\maxdimen
14768 \vbadness\maxdimen
14769 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
14770 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14771 \toks@\expandafter{\topmark}%
14772 \xdef\@firstcoltopmark{\the\toks@}%
14773 \toks@\expandafter{\splitfirstmark}%
14774 \xdef\@firstcolfirstmark{\the\toks@}%
14775 \ifx\@firstcolfirstmark\@empty
14776 \global\let\@setmarks\relax

```



```

14777 \else
14778 \gdef\@setmarks{%
14779 \let\firstmark\@firstcolfirstmark
14780 \let\topmark\@firstcoltopmark}%
14781 \fi
14782 \else
14783 \preparefootins
14784 \prepare@bidi@copyins
14785 \global\@firstcolumntrue
14786 \setbox\@outputbox\vbox{%
14787 \hb@xt@\textwidth{%
14788 \hskip \columnwidth
14789 \hfil
14790 {\normalcolor\vrule \@width\columnseprule}%
14791 \hfil
14792 \hb@xt@\columnwidth{%
14793 \bidi@firstcolumn@status@write%
14794 \box\@leftcolumn \hss}%
14795 \hskip -\textwidth
14796 \hb@xt@\columnwidth{%
14797 \bidi@lastcolumn@status@write%
14798 \box\@outputbox \hss}%
14799 \hskip \columnsep
14800 \hskip \columnwidth }}%
14801 \@combinedblfloats
14802 \@setmarks
14803 \@outputpage
14804 \begingroup
14805 \@dblfloatplacement
14806 \@startdblcolumn
14807 \@whiles\if@fcolmade \fi{\@outputpage
14808 \@startdblcolumn}%
14809 \endgroup
14810 \fi}%
14811
14812 \def\@startcolumn{%
14813 \ifx\@deferlist\@empty
14814 \global\@fcolmadefalse
14815 \global\@colroom\@colht
14816 \else
14817 \ifvoid\footins\else
14818 \ftn@amount\ht\footins
14819 \advance\ftn@amount\dp\footins
14820 \advance\ftn@amount\skip\footins
14821 \fi
14822 \ifvoid\@bidi@copyins\else
14823 \bidi@copyins@amount\ht\@bidi@copyins@
14824 \advance\bidi@copyins@amount\dp\@bidi@copyins@
14825 \advance\bidi@copyins@amount\skip\@bidi@copyins@
14826 \fi
14827 \global\advance\@colht-\ftn@amount
14828 \global\advance\@colht-\bidi@copyins@amount
14829 \global\@colroom\@colht
14830 \@xstartcol

```



```

14831 \global\advance\@colht\ftn@amount
14832 \global\advance\@colroom\ftn@amount
14833 \global\advance\@colht\@bidi@copyins@amount
14834 \global\advance\@colroom\@bidi@copyins@amount
14835 \fi
14836 \if@fcolmade
14837 \setbox\@cclv\box\@outputbox
14838 \@makecol
14839 \else
14840 \ifvoid\footins\else
14841 \insert\footins{\unvbox\footins}\fi
14842 \ifvoid\@bidi@copyins\else
14843 \insert\@bidi@copyins{\unvbox\@bidi@copyins}\fi
14844 \fi}
14845
14846 \newdimen\@bidi@copyins@amount
14847
14848 \def\@makecol{\if@firstcolumn
14849 \setbox\@outputbox\box\@cclv
14850 \if@twocolumn \else
14851 \ifvoid\footins \else
14852 \latexerr{ftnright package
14853 used in one-column mode}%
14854 {The ftnright package was designed to
14855 work with LaTeX's standard^^Jtwocolumn
14856 option. It does *not* work with the
14857 multicol package.^^JSo please specify
14858 `twocolumn' in the
14859 \noexpand\documentclass command.}%
14860 \shipout\box\footins \fi
14861 \ifvoid\@bidi@copyins\else
14862 \latexerr{ftnright package
14863 used in one-column mode}%
14864 {The ftnright package was designed to
14865 work with LaTeX's standard^^Jtwocolumn
14866 option. It does *not* work with the
14867 multicol package.^^JSo please specify
14868 `twocolumn' in the
14869 \noexpand\documentclass command.}%
14870 \shipout\box\@bidi@copyins\fi\fi
14871 \ifnum\insertpenalties>\z@
14872 \latexerr{ftnright package
14873 scrambled footnotes}%
14874 {There is too much footnote material in
14875 the first column and ftnright^^Jis
14876 unable to cope with this.^^JYou need
14877 to reduce the amount to get a properly
14878 formatted page.}%
14879 \fi
14880 \else
14881 \ifvoid\footins
14882 \ifvoid\@bidi@copyins
14883 \setbox\@outputbox\box\@cclv
14884 \else

```



```

14885 \setbox\@outputbox\vbox
14886 {\ifvoid\@cclv \else
14887 \unvbox\@cclv
14888 \vskip \skip\@bidi@copyins@
14889 \fi
14890 \color@begingroup
14891 \normalcolor
14892 \unvbox \@bidi@copyins@
14893 \color@endgroup}%
14894 \fi
14895 \else
14896 \setbox\@outputbox\vbox
14897 {\ifvoid\@cclv \else
14898 \unvbox\@cclv
14899 \vskip\skip\footins\fi
14900 \color@begingroup
14901 \normalcolor
14902 \footnoterule\unvbox\footins
14903 \color@endgroup
14904 \ifvoid\@bidi@copyins@
14905 \else
14906 \vskip \skip\@bidi@copyins@
14907 \color@begingroup
14908 \normalcolor
14909 \unvbox \@bidi@copyins@
14910 \color@endgroup
14911 \fi
14912 }%
14913 \fi
14914 \fi
14915 \xdef\@freelist{\@freelist\@midlist}%
14916 \global \let \@midlist \@empty
14917 \@combinefloats
14918 \ifvbox\@kludgeins
14919 \@makespecialcolbox
14920 \else
14921 \setbox\@outputbox\vbox to\@colht
14922 {\boxmaxdepth\maxdepth
14923 \@texttop
14924 \@tempdima\dp\@outputbox
14925 \unvbox\@outputbox
14926 \vskip-\@tempdima
14927 \@textbottom}%
14928 \fi
14929 \global\maxdepth\@maxdepth}
14930
14931 \let\leftfootnoterule\@empty
14932 \let\rightfootnoterule\@empty
14933 \let\textwidthfootnoterule\@empty
14934 \let\autofootnoterule\@empty
14935 \let\footnoterule\@empty
14936 \long\def\@makefnmark#1{\parindent 1em
14937 \noindent\hbox to 2em{}}%
14938 \llap{\@thefnmark\hbox{.}\,\,\,}#1}

```



```

14939
14940 \setlength{\skip\@bidi@copyins@}
14941         {10pt plus 5pt minus 3pt}
14942 \AtBeginDocument{\prepare@bidi@copyins}

```

## 99 File graphicx-xetex-bidi.def

```

14943 \ProvidesFile{graphicx-xetex-bidi.def}[2017/06/17 v0.5 bidi adaptations for graphicx package]
14944 \def\Grot@box@std#1#2{\ifmmode\else\if@RTL\beginL\fi\fi%
14945   \Grot@setangle{#1}%
14946   \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#2\if@RTL\endR\fi\else\if@RTL\beginR\fi#2\if@RTL
14947   \Grot@x\z@
14948   \Grot@y\z@
14949   \Grot@box\ifmmode\else\if@RTL\endL\fi\fi}
14950 \long\def\Grot@box@kv[#1]#2#3{\ifmmode\else\if@RTL\beginL\fi\fi%
14951   \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL
14952   \Grot@x\width \divide\Grot@x\tw@
14953   \Grot@y\height \advance\Grot@y-\depth \divide\Grot@y\tw@
14954   \setkeys{Grot}{#1}%
14955   \setbox\z@\box\@tempboxa
14956   \Grot@setangle{#2}%
14957   \Grot@box\ifmmode\else\if@RTL\endL\fi\fi
14958   \@end@tempboxa}
14959 \long\def\Gscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
14960   \leavevmode
14961   \def\Gscale@x{#1}\def\Gscale@y{#2}%
14962   \setbox\z@\hbox{#3}%
14963   \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
14964   \ifdim#2\p<\z@
14965     \ht\tw@-#2\dp\z@
14966     \dp\tw@-#2\ht\z@
14967   \else
14968     \ht\tw@#2\ht\z@
14969     \dp\tw@#2\dp\z@
14970   \fi
14971   \ifdim#1\p<\z@
14972     \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
14973   \else
14974     \wd\tw@#1\wd\z@
14975     \box\tw@
14976   \fi\ifmmode\else\if@RTL\endL\fi\fi}
14977 \def\Gin@iii[#1,#2][#3,#4]#5{%
14978   \begingroup
14979   \ifmmode\else\if@RTL\beginL\fi\fi
14980   \Gin@bboxtrue
14981   \Gin@defaultbp\Gin@llx{#1}%
14982   \Gin@defaultbp\Gin@lly{#2}%
14983   \Gin@defaultbp\Gin@urx{#3}%
14984   \Gin@defaultbp\Gin@ury{#4}%
14985   \Gin@include@graphics{#5}%
14986   \ifmmode\else\if@RTL\endL\fi\fi
14987   \endgroup}
14988 \def\Gin@ii[#1]#2{%
14989   \def\@tempa{[]}\def\@tempb{#2}%

```





```

14990 \ifx\@tempa\@tempb
14991 \def\@tempa{\Gin@iii[#1][ ]}%
14992 \expandafter\@tempa
14993 \else
14994 \begingroup
14995 \ifmmode\else\if@RTL\beginL\fi\fi
14996 \@tempswafalse
14997 \toks@{\Gin@graphics{#2}}%
14998 \setkeys{Gin}{#1}%
14999 \Gin@esetsize
15000 \the\toks@
15001 \ifmmode\else\if@RTL\endL\fi\fi
15002 \endgroup
15003 \fi}
15004 \def\reflectbox{\bidiGscale@box-1[1]}
15005 \long\def\bidiGscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
15006 \leavevmode
15007 \def\Gscale@x{#1}\def\Gscale@y{#2}%
15008 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL
15009 \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
15010 \ifdim#2\p@<\z@
15011 \ht\tw@-#2\dp\z@
15012 \dp\tw@-#2\ht\z@
15013 \else
15014 \ht\tw@#2\ht\z@
15015 \dp\tw@#2\dp\z@
15016 \fi
15017 \ifdim#1\p@<\z@
15018 \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
15019 \else
15020 \wd\tw@#1\wd\z@
15021 \box\tw@
15022 \fi\ifmmode\else\if@RTL\endL\fi\fi}
15023 \def\scalebox#1{%
15024 \@ifnextchar[{\bidiGscale@box{#1}}{\bidiGscale@box{#1}[#1]}}
15025 \def\resizebox{%
15026 \leavevmode
15027 \@ifstar{\bidiGscale@@box\totalheight}{\bidiGscale@@box\height}}
15028 \def\bidiGscale@@box#1#2#3{%
15029 \let\@tempa\Gin@exclamation
15030 \expandafter\def\expandafter\@tempb\expandafter{\string#2}%
15031 \expandafter\def\expandafter\@tempc\expandafter{\string#3}%
15032 \ifx\@tempb\@tempa
15033 \ifx\@tempc\@tempa
15034 \toks@{\mbox}%
15035 \else
15036 \toks@{\bidiGscale@box@dd{#3}#1}%
15037 \fi
15038 \else
15039 \ifx\@tempc\@tempa
15040 \toks@{\bidiGscale@box@dd{#2}\width}%
15041 \else
15042 \toks@{\bidiGscale@box@ddd{#2}\width{#3}#1}%
15043 \fi

```



```

15044 \fi
15045 \the\toks@}
15046 \long\def\ bidiGscale@box@dd#1#2#3{%
15047 \begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\fi}
15048 \setlength\@tempdima{#1}%
15049 \setlength\@tempdimb{#2}%
15050 \Gscale@div\@tempa\@tempdima\@tempdimb
15051 \Gscale@box\@tempa[\@tempa]{\box\@tempboxa}%
15052 \end@tempboxa}
15053 \long\def\ bidiGscale@box@ddd#1#2#3#4#5{%
15054 \begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#5\if@RTL\endR\fi\else\if@RTL\beginR\fi#5\fi}
15055 \setlength\@tempdima{#1}%
15056 \setlength\@tempdimb{#2}%
15057 \Gscale@div\@tempa\@tempdima\@tempdimb
15058 \setlength\@tempdima{#3}%
15059 \setlength\@tempdimb{#4}%
15060 \Gscale@div\@tempb\@tempdima\@tempdimb
15061 \ifGin@iso
15062 \ifdim\@tempa\p@>\@tempb\p@
15063 \let\@tempa\@tempb
15064 \else
15065 \let\@tempb\@tempa
15066 \fi
15067 \fi
15068 \Gscale@box\@tempa[\@tempb]{\box\@tempboxa}%
15069 \end@tempboxa}

```

## 100 File geometry-xetex-bidi.def

```

15070 \ProvidesFile{geometry-xetex-bidi.def}[2017/01/14 v0.2 bidi adaptations for geometry package]
15071 \renewcommand*{\Gm@vrules@mpi}{%
15072 \if@RTLmain%
15073 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
15074 \llap{\Gm@vrule}\ignorespaces
15075 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
15076 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}%
15077 \else%
15078 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
15079 \hskip \textwidth\Gm@vrule\hskip \marginparsep
15080 \llap{\Gm@vrule}\hfil\Gm@vrule}\fi}%
15081 \renewcommand*{\Gm@vrules@mpii}{%
15082 \if@RTLmain%
15083 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
15084 \hskip \textwidth\Gm@vrule\hskip \marginparsep
15085 \llap{\Gm@vrule}\hfil\Gm@vrule}%
15086 \else%
15087 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
15088 \llap{\Gm@vrule}\ignorespaces
15089 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
15090 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}\fi}%
15091 \bidi@patchcmd{\Gm@pageframes}{%
15092 \ifodd\count\z@
15093 \let\@themargin\oddsidemargin
15094 \else

```



```

15095         \let\@themargin\evensidemargin
15096     \fi
15097 }{%
15098     \ifodd\count\z@
15099         \if@RTLmain
15100             \let\@themargin\evensidemargin
15101         \else
15102             \let\@themargin\oddsidemargin
15103         \fi
15104     \else
15105         \if@RTLmain
15106             \let\@themargin\oddsidemargin
15107         \else
15108             \let\@themargin\evensidemargin
15109         \fi
15110     \fi
15111 }{}{}

```

## 101 File hvfloat-xetex-bidi.def

```

15112 \ProvidesFile{hvfloat-xetex-bidi.def}[2012/04/18 v0.2 bidi adaptations for hvfloat package f
15113 \def\do@hvFloat[#1]#2#3{%
15114 \def\hv@shortCap{#1}
15115 \def\hv@longCap{#2}
15116 \def\hv@label{#3}
15117 %\newcommand*{\hvFloat}[5][{}]{%
15118 % [#1]: keyvalues
15119 % #2: type figure | table | ...
15120 % #3: float contents
15121 % [#4]: short caption
15122 % #5: caption
15123 % #6: label
15124 % \setDefaults%
15125 % \def\@tempa{#1}%
15126 % \ifx\@tempa\empty\else\setkeys{hvSet}{#1}\fi% set options, only when not empty
15127 % \def\@tempa{90}%
15128 % \ifx\hvSet@rotAngle\@tempa \setlength{\hvMaxCapWidth}{\textheight}
15129 % \else \setlength{\hvMaxCapWidth}{\linewidth}
15130 % \fi
15131 %
15132 % First we save the object in \hvObjectBox
15133 %
15134 % \ifx\hvSet@objectAngle\hv@Zero % rotate the object?
15135 % \savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}
15136 % \else
15137 % \savebox{\hvObjectBox}{%
15138 % \rotatebox{\hvSet@objectAngle}{%
15139 % \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}}
15140 % \fi
15141 % \setlength{\hvObjectWidth}{\wd\hvObjectBox}
15142 %
15143 % Now we save the caption with its defined \hvCapWidth
15144 %
15145 % \ifx\hvSet@capWidth\hv@Width\setlength{\hvCapWidth}{\hvObjectWidth}

```



```

15146 \else
15147 \ifx\hvSet@capWidth\hv@Height\setlength{\hvCapWidth}{\ht\hvObjectBox}
15148 \else
15149 \setlength{\hvCapWidth}{\hvObjectWidth}
15150 \ifx\hvSet@capPos\hv@Left\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
15151 \ifx\hvSet@capPos\hv@Right\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
15152 \ifdim\hvSet@capWidth\columnwidth<\hvMaxCapWidth
15153 \setlength{\hvCapWidth}{\hvSet@capWidth\columnwidth}
15154 \else
15155 \setlength{\hvCapWidth}{\hvMaxCapWidth}
15156 \fi
15157 \fi
15158 \fi
15159 %
15160 % now we have the object and the caption with the right
15161 % rotated angles saved in boxes
15162 %
15163 \def\fps@figure{\hvSet@floatPos}
15164 \ifhv@nonFloat\begin{group}% Start the nonfloat part
15165 \else \begin{\hv@floatType}% Start the floating environment
15166 \fi%
15167 \saveCaptionSkip% we put this space ourselves
15168 \ifx\hvSet@capAngle\hv@Width % need rotation?
15169 \sbox{\hvCaptionBox}{%
15170 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
15171 \ifhv@nonFloat%
15172 \ifhv@onlyText#2%
15173 \else%
15174 \ifx\hv@floatType\hv@figure
15175 \ifx\relax#1\relax \figcaption{#2}\else\figcaption{#1}{#2}\fi
15176 \else
15177 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption{#1}{#2}\fi%
15178 \fi
15179 \fi
15180 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption{#1}{#2}\fi%
15181 \fi%
15182 \label{#3}%
15183 \end{minipage}%
15184 }%
15185 \else%
15186 \sbox{\hvCaptionBox}{%
15187 \rotatebox{\hvSet@capAngle}{%
15188 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
15189 \ifhv@nonFloat%
15190 \ifhv@onlyText#2%
15191 \else%
15192 \ifx\hv@floatType\hv@figure
15193 \ifx\relax#1\relax \figcaption{#2}\else\figcaption{#1}{#2}\fi
15194 \else
15195 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption{#1}{#2}\fi%
15196 \fi
15197 \fi
15198 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption{#1}{#2}\fi%
15199 \fi%

```



```

15200         \label{#3}%
15201         \end{minipage}%
15202     }%
15203 }%
15204 \fi%
15205 %%
15206 \restoreCaptionSkip% save old values
15207 \ifx\hvSet@objectPos\hv@Right\@raggedleft%
15208 \else%
15209     \ifx\hvSet@objectPos\hv@Center
15210         \ifhv@nonFloat\hspace*{\fill}\else\centering\fi%
15211     \fi%
15212 \fi%
15213 %
15214 % to rotate object and caption together, we save all in another box
15215 % the caption comes first, if its on the left or the top
15216 %
15217 \savebox{\@tempboxa}{%
15218     \ifx\hvSet@capPos\hv@Left % caption on left side
15219 \if@RTL%
15220 \ifx\hvSet@capVPos\hv@Center%
15221 \ifhv@fbox
15222 \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
15223 \else
15224 \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}%
15225 \fi%
15226 \hspace{\hvSet@floatCapSep pt}%
15227 \ifhv@fbox
15228 \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15229 \else
15230 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
15231 \fi%
15232 \else%
15233 \ifx\hvSet@capVPos\hv@Top
15234 \ifhv@fbox
15235 \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15236 \else
15237 \raisebox{-\height}{\usebox{\hvObjectBox}}%
15238 \fi%
15239 \hspace{\hvSet@floatCapSep pt}%
15240 \ifhv@fbox
15241 \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15242 \else
15243 \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15244 \fi
15245 \else
15246 \ifhv@fbox
15247 \fbox{\usebox{\hvObjectBox}}%
15248 \else
15249 \usebox{\hvObjectBox}%
15250 \fi
15251 \hspace{\hvSet@floatCapSep pt}%
15252 \ifhv@fbox
15253 \fbox{\usebox{\hvCaptionBox}}%

```



```

15254 \else
15255 \usebox{\hvCaptionBox}%
15256 \fi%
15257 \fi%
15258 \fi%
15259 \else% not RTL
15260 \ifx\hvSet@capVPos\hv@Center%
15261 \ifhv@fbox\fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15262 \else \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
15263 \fi%
15264 \hspace{\hvSet@floatCapSep pt}% capfloatsep
15265 \ifhv@fbox\fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
15266 \else \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15267 \fi%
15268 \else%
15269 \ifx\hvSet@capVPos\hv@Top % caption at top
15270 \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15271 \else \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15272 \fi
15273 \hspace{\hvSet@floatCapSep pt}% capfloatsep
15274 \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15275 \else \raisebox{-\height}{\usebox{\hvObjectBox}}%
15276 \fi%
15277 \else% caption on bottom
15278 \ifhv@fbox\fbbox{\usebox{\hvCaptionBox}}
15279 \else\usebox{\hvCaptionBox}
15280 \fi%
15281 \hspace{\hvSet@floatCapSep pt}%
15282 \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
15283 \else \usebox{\hvObjectBox}
15284 \fi%
15285 \fi%
15286 \fi% end of RTL
15287 \fi%
15288 \else
15289 \ifx\hvSet@capPos\hv@Top
15290 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
15291 \begin{minipage}{\wd\hvCaptionBox}
15292 \else
15293 \begin{minipage}{\wd\hvObjectBox}
15294 \fi
15295 \centering
15296 \ifhv@fbox
15297 \fbbox{\usebox{\hvCaptionBox}}\[\hvBelowCaptionSkip]
15298 \fbbox{\usebox{\hvObjectBox}}
15299 \else
15300 \usebox{\hvCaptionBox}\[\hvBelowCaptionSkip]
15301 \usebox{\hvObjectBox}
15302 \fi%
15303 \end{minipage}
15304 \else
15305 \ifx\hvSet@capPos\hv@Bottom
15306 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
15307 \begin{minipage}{\wd\hvCaptionBox}

```



```

15308 \else
15309 \begin{minipage}{\wd\hvObjectBox}
15310 \fi
15311 \centering
15312 \ifhv@fbox
15313 \fbox{\usebox{\hvObjectBox}}\[\hvAboveCaptionSkip]
15314 \fbox{\usebox{\hvCaptionBox}}
15315 \else
15316 \usebox{\hvObjectBox}\[\hvAboveCaptionSkip]
15317 \usebox{\hvCaptionBox}
15318 \fi%
15319 \end{minipage}
15320 \else% the last option: put the caption on the right
15321 \if@RTL%
15322 \ifx\hvSet@capVPos\hv@Center%
15323 \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15324 \else \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
15325 \fi%
15326 \hspace{\hvSet@floatCapSep pt}% capfloatsep
15327 \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
15328 \else \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15329 \fi%
15330 \else%
15331 \ifx\hvSet@capVPos\hv@Top % caption at top
15332 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15333 \else \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15334 \fi
15335 \hspace{\hvSet@floatCapSep pt}% capfloatsep
15336 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}
15337 \else \raisebox{-\height}{\usebox{\hvObjectBox}}%
15338 \fi%
15339 \else% caption on bottom
15340 \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}
15341 \else\usebox{\hvCaptionBox}
15342 \fi%
15343 \hspace{\hvSet@floatCapSep pt}%
15344 \ifhv@fbox\fbox{\usebox{\hvObjectBox}}
15345 \else \usebox{\hvObjectBox}
15346 \fi%
15347 \fi%
15348 \fi%
15349 \else% not RTL
15350 \ifx\hvSet@capVPos\hv@Center%
15351 \ifhv@fbox
15352 \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
15353 \else
15354 \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15355 \fi%
15356 \hspace{\hvSet@floatCapSep pt}%
15357 \ifhv@fbox
15358 \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15359 \else
15360 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
15361 \fi%

```



```

15362 \else%
15363 \ifx\hvSet@capVPos\hv@Top
15364 \ifhv@fbox
15365 \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15366 \else
15367 \raisebox{-\height}{\usebox{\hvObjectBox}}%
15368 \fi%
15369 \hspace{\hvSet@floatCapSep pt}%
15370 \ifhv@fbox
15371 \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15372 \else
15373 \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15374 \fi
15375 \else
15376 \ifhv@fbox
15377 \fbox{\usebox{\hvObjectBox}}%
15378 \else
15379 \usebox{\hvObjectBox}%
15380 \fi
15381 \hspace{\hvSet@floatCapSep pt}%
15382 \ifhv@fbox
15383 \fbox{\usebox{\hvCaptionBox}}%
15384 \else
15385 \usebox{\hvCaptionBox}%
15386 \fi%
15387 \fi%
15388 \fi
15389 \fi% end of RTL
15390 \fi
15391 \fi
15392 \fi
15393 }% End savebox Object and caption
15394 %
15395 % now we rotate the object and caption, if needed
15396 %
15397 \ifx\hvSet@rotAngle\hv@Zero
15398 \usebox{\@tempboxa}
15399 \else
15400 \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}
15401 \fi
15402 \ifhv@nonFloat
15403 \ifx\hvSet@objectPos\hv@Center
15404 \ifhv@nonFloat
15405 \hspace{\fill}
15406 \fi
15407 \fi
15408 \endgroup% End the nonfloat part
15409 \else
15410 \end{\hv@floatType}% End the floating environment
15411 \fi
15412 }

```

## 102 File hyperref-xetex-bidi.def





```

15413 \ProvidesFile{hyperref-xetex-bidi.def}[2018/11/11 v1.1 bidi adaptations for hyperref package]
15414 \AtBeginDocument{%
15415 \def\contentsline#1#2#3#4{%
15416   \ifx\#4\%
15417     \csname l@#1\endcsname{#2}{#3}%
15418   \else
15419     \ifcase\Hy@linktoc % none
15420       \csname l@#1\endcsname{#2}{#3}%
15421     \or % section
15422       \csname l@#1\endcsname{%
15423         \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
15424       }{#3}%
15425     \or % page
15426       \csname l@#1\endcsname{#2}{#3}{%
15427         \hyper@linkstart{link}{#4}{#3}\hyper@linkend
15428       }%
15429     \else % all
15430       \csname l@#1\endcsname{%
15431         \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
15432       }{#3}%
15433       \hyper@linkstart{link}{#4}{#3}\hyper@linkend
15434     }%
15435   \fi
15436 \fi
15437 }
15438 \ifHy@hyperfootnotes
15439   \let\H@@footnotetext\@footnotetext
15440   \let\HRTL@RTLfootnotetext\@RTLfootnotetext
15441   \let\HLTR@LTRfootnotetext\@LTRfootnotetext
15442   \def\@xfootnotenext[#1]{%
15443     \begingroup
15444       \csname c@#1\endcsname #1\relax
15445       \unrestored@protected@xdef\@thefnmark{\thempfn}%
15446     \endgroup
15447     \ifx\@footnotetext\@mpfootnotetext
15448       \expandafter\H@@mpfootnotetext
15449     \else
15450       \expandafter\H@@footnotetext
15451     \fi
15452   }%
15453   \def\@xRTLfootnotenext[#1]{%
15454     \begingroup
15455       \csname c@#1\endcsname #1\relax
15456       \unrestored@protected@xdef\@thefnmark{\thempfn}%
15457     \endgroup
15458     \ifx\@RTLfootnotetext\@mpRTLfootnotetext
15459       \expandafter\HRTL@mpRTLfootnotetext
15460     \else
15461       \expandafter\HRTL@RTLfootnotetext
15462     \fi
15463   }%
15464   \def\@xLTRfootnotenext[#1]{%
15465     \begingroup
15466       \csname c@#1\endcsname #1\relax

```



```

15467     \unrestored@protected@xdef\@thefnmark{\thempfn}%
15468 \endgroup
15469 \ifx\@LTRfootnotetext\@mpLTRfootnotetext
15470     \expandafter\HLTR@\@mpLTRfootnotetext
15471 \else
15472     \expandafter\HLTR@\@LTRfootnotetext
15473 \fi
15474 }%
15475 \def\@xfootnotemark[#1]{%
15476 \begingroup
15477     \c@footnote #1\relax
15478     \unrestored@protected@xdef\@thefnmark{\thefootnote}%
15479 \endgroup
15480 \H@\@footnotemark
15481 }%
15482 \let\H@\@mpfootnotetext\@mpfootnotetext
15483 \let\HRTL@\@mpRTLfootnotetext\@mpRTLfootnotetext
15484 \let\HLTR@\@mpLTRfootnotetext\@mpLTRfootnotetext
15485 \long\def\@mpfootnotetext#1{%
15486     \H@\@mpfootnotetext{%
15487         \ifHy@nesting
15488             \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15489         \else
15490             \Hy@raisedlink{%
15491                 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15492             }#1%
15493         \fi
15494     }%
15495 }%
15496 \long\def\@mpRTLfootnotetext#1{%
15497     \HRTL@\@mpRTLfootnotetext{%
15498         \ifHy@nesting
15499             \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15500         \else
15501             \Hy@raisedlink{%
15502                 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15503             }#1%
15504         \fi
15505     }%
15506 }%
15507 \long\def\@mpLTRfootnotetext#1{%
15508     \HLTR@\@mpLTRfootnotetext{%
15509         \ifHy@nesting
15510             \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15511         \else
15512             \Hy@raisedlink{%
15513                 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15514             }#1%
15515         \fi
15516     }%
15517 }%
15518 \long\def\@footnotetext#1{%
15519     \H@\@footnotetext{%
15520         \ifHy@nesting

```



```

15521         \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15522     \else
15523         \Hy@raisedlink{%
15524             \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15525         }%
15526         \let\@currentHlabel\Hy@footnote@currentHlabel
15527         \let\@currentHref\Hy@footnote@currentHref
15528         \let\@currentlabelname\@empty
15529         #1%
15530     \fi
15531 }%
15532 }%
15533 \long\def\@RTLfootnotetext#1{%
15534     \HRTL@@RTLfootnotetext{%
15535         \ifHy@nesting
15536             \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15537         \else
15538             \Hy@raisedlink{%
15539                 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15540             }%
15541             \let\@currentHlabel\Hy@footnote@currentHlabel
15542             \let\@currentHref\Hy@footnote@currentHref
15543             \let\@currentlabelname\@empty
15544             #1%
15545         \fi
15546     }%
15547 }%
15548 \long\def\@LTRfootnotetext#1{%
15549     \HLTR@@LTRfootnotetext{%
15550         \ifHy@nesting
15551             \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15552         \else
15553             \Hy@raisedlink{%
15554                 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15555             }%
15556             \let\@currentHlabel\Hy@footnote@currentHlabel
15557             \let\@currentHref\Hy@footnote@currentHref
15558             \let\@currentlabelname\@empty
15559             #1%
15560         \fi
15561     }%
15562 }%
15563 \@ifpackageloaded{tabularx}{%
15564     \let\HyOrg@TX@endtabularx\TX@endtabularx
15565     \def\Hy@tabularx@hook{%
15566         \let\@footnotetext\H@@footnotetext
15567         \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
15568         \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
15569         \let\@footnotemark\H@@footnotemark
15570         \let\@mpfootnotetext\H@@mpfootnotetext
15571         \let\@mpLTRfootnotetext\HLTR@@mpLTRfootnotetext
15572         \let\@mpRTLfootnotetext\HRTL@@mpRTLfootnotetext
15573     }%
15574     \begingroup

```



```

15575     \toks@\expandafter{\TX@endtabularx}%
15576     \xdef\Hy@gtemp{%
15577         \noexpand\Hy@tabularx@hook
15578         \the\toks@
15579     }%
15580     \endgroup
15581     \let\TX@endtabularx\Hy@gtemp
15582 }{}%
15583 \@ifpackageloaded{longtable}{%
15584     \CheckCommand*\LT@p@LTRftntext}[1]{%
15585         \edef\@tempa{%
15586             \the\LT@p@ftn
15587             \noexpand\LTRfootnotetext[\the\c@footnote]%
15588         }%
15589         \global\LT@p@ftn\expandafter{\@tempa{#1}}%
15590     }%
15591     \long\def\LT@p@LTRftntext#1{%
15592         \edef\@tempa{%
15593             \the\LT@p@ftn
15594             \begingroup
15595                 \noexpand\c@footnote=\the\c@footnote\relax
15596                 \noexpand\protected\xdef\noexpand\@thefnmark{%
15597                     \noexpand\thempfn
15598                 }%
15599                 \noexpand\Hy@LT@LTRfootnotetext{%
15600                     \Hy@footnote@currentHref
15601                 }%
15602             }%
15603             \global\LT@p@ftn\expandafter{%
15604                 \@tempa{#1}%
15605             }%
15606         }%
15607     }%
15608     \long\def\Hy@LT@LTRfootnotetext#1#2{%
15609         \HLTR@@LTRfootnotetext{%
15610             \ifHy@nesting
15611                 \hyper@@anchor{#1}{#2}%
15612             \else
15613                 \Hy@raisedlink{%
15614                     \hyper@@anchor{#1}{\relax}%
15615                 }%
15616                 \def\@currentHref{#1}%
15617                 \let\@currentlabelname\@empty
15618                 #2%
15619             \fi
15620         }%
15621     }%
15622     \CheckCommand*\LT@p@RTLftntext}[1]{%
15623         \edef\@tempa{%
15624             \the\LT@p@ftn
15625             \noexpand\RTLfootnotetext[\the\c@footnote]%
15626         }%
15627         \global\LT@p@ftn\expandafter{\@tempa{#1}}%
15628     }%

```



```

15629 \long\def\LT@p@RTLftntext#1{%
15630 \edef\@tempa{%
15631 \the\LT@p@ftn
15632 \begingroup
15633 \noexpand\c@footnote=\the\c@footnote\relax
15634 \noexpand\protected@xdef\noexpand\@thefnmark{%
15635 \noexpand\thempfn
15636 }%
15637 \noexpand\Hy@LT@RTLfootnotetext{%
15638 \Hy@footnote@currentHref
15639 }%
15640 }%
15641 \global\LT@p@ftn\expandafter{%
15642 \@tempa{#1}%
15643 \endgroup
15644 }%
15645 }%
15646 \long\def\Hy@LT@RTLfootnotetext#1#2{%
15647 \HRTL@RTLfootnotetext{%
15648 \ifHy@nesting
15649 \hyper@@anchor{#1}{#2}%
15650 \else
15651 \Hy@raisedlink{%
15652 \hyper@@anchor{#1}{\relax}%
15653 }%
15654 \def\@currentHref{#1}%
15655 \let\@currentlabelname\@empty
15656 #2%
15657 \fi
15658 }%
15659 }%
15660 }-}%
15661 \@ifpackageloaded{bidipoem}{%
15662 \long\def\bidipoem@p@ftntext#1{%
15663 \edef\@tempx{%
15664 \the\bidipoem@p@ftn
15665 \begingroup
15666 \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
15667 \noexpand\protected@xdef\noexpand\@thefnmark{%
15668 \noexpand\thempfn
15669 }%
15670 \noexpand\Hy@bidipoem@footnotetext{%
15671 \Hy@footnote@currentHref
15672 }%
15673 }%
15674 \global\bidipoem@p@ftn\expandafter{%
15675 \@tempx{#1}%
15676 \endgroup
15677 }%
15678 }%
15679 \long\def\Hy@bidipoem@footnotetext#1#2{%
15680 \H@@footnotetext{%
15681 \ifHy@nesting
15682 \hyper@@anchor{#1}{#2}%

```



```

15683     \else
15684         \Hy@raisedlink{%
15685             \hyper@@anchor{#1}{\relax}%
15686         }%
15687         \def\@currentHref{#1}%
15688         \let\@currentlabelname\@empty
15689         #2%
15690     \fi
15691 }%
15692 }%
15693     \long\def\bidipoem@p@LTRftntext#1{%
15694 \edef\@tempxi{%
15695     \the\bidipoem@p@ftn
15696     \beginingroup
15697         \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
15698         \noexpand\protected@xdef\noexpand\@thefnmark{%
15699             \noexpand\thempfn
15700         }%
15701         \noexpand\Hy@bidipoem@LTRfootnotetext{%
15702             \Hy@footnote@currentHref
15703         }%
15704     }%
15705     \global\bidipoem@p@ftn\expandafter{%
15706         \@tempxi{#1}%
15707     \endgroup
15708 }%
15709 }%
15710 \long\def\Hy@bidipoem@LTRfootnotetext#1#2{%
15711     \HLTR@@LTRfootnotetext{%
15712         \ifHy@nesting
15713             \hyper@@anchor{#1}{#2}%
15714         \else
15715             \Hy@raisedlink{%
15716                 \hyper@@anchor{#1}{\relax}%
15717             }%
15718             \def\@currentHref{#1}%
15719             \let\@currentlabelname\@empty
15720             #2%
15721         \fi
15722     }%
15723 }%
15724     \long\def\bidipoem@p@RTLftntext#1{%
15725 \edef\@tempxii{%
15726     \the\bidipoem@p@ftn
15727     \beginingroup
15728         \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
15729         \noexpand\protected@xdef\noexpand\@thefnmark{%
15730             \noexpand\thempfn
15731         }%
15732         \noexpand\Hy@bidipoem@RTLfootnotetext{%
15733             \Hy@footnote@currentHref
15734         }%
15735     }%
15736     \global\bidipoem@p@ftn\expandafter{%

```



```

15737         \@tempxi{#1}%
15738     \endgroup
15739 }%
15740 }%
15741 \long\def\Hy@bidipoem@RTLfootnotetext#1#2{%
15742     \HRTL@RTLfootnotetext{%
15743         \ifHy@nesting
15744             \hyper@@anchor{#1}{#2}%
15745         \else
15746             \Hy@raisedlink{%
15747                 \hyper@@anchor{#1}{\relax}%
15748             }%
15749             \def\@currentHref{#1}%
15750             \let\@currentlabelname\@empty
15751             #2%
15752         \fi
15753     }%
15754 }%
15755 }-}%
15756 \let\HyOrg@maketitle\maketitle
15757 \def\maketitle{%
15758     \let\Hy@saved@footnotemark\@footnotemark
15759     \let\Hy@saved@footnotetext\@footnotetext
15760     \let\HyRTL@saved@RTLfootnotetext\@RTLfootnotetext
15761     \let\HyLTR@saved@LTRfootnotetext\@LTRfootnotetext
15762     \let\@footnotemark\H@@footnotemark
15763     \let\@footnotetext\H@@footnotetext
15764     \let\@RTLfootnotetext\HRTL@RTLfootnotetext
15765     \let\@LTRfootnotetext\HLTR@LTRfootnotetext
15766     \@ifnextchar[\Hy@maketitle@optarg{% ]
15767         \HyOrg@maketitle
15768     \Hy@maketitle@end
15769 }%
15770 }%
15771 \def\Hy@maketitle@optarg[#1]{%
15772     \HyOrg@maketitle[#{#1}]%
15773     \Hy@maketitle@end
15774 }%
15775 \def\Hy@maketitle@end{%
15776     \ifx\@footnotemark\H@@footnotemark
15777         \let\@footnotemark\Hy@saved@footnotemark
15778         \fi
15779     \ifx\@footnotetext\H@@footnotetext
15780         \let\@footnotetext\Hy@saved@footnotetext
15781         \fi
15782     \ifx\@RTLfootnotetext\HRTL@RTLfootnotetext
15783         \let\@RTLfootnotetext\HyRTL@saved@RTLfootnotetext
15784         \fi
15785     \ifx\@LTRfootnotetext\HLTR@LTRfootnotetext
15786         \let\@LTRfootnotetext\HyLTR@saved@LTRfootnotetext
15787         \fi
15788 }%
15789 \def\realfootnote{%
15790     \@ifnextchar[\@xfootnote{%

```



```

15791     \stepcounter{\@mpfn}%
15792     \protected@xdef\@thefnmark{\thempfn}%
15793     \H@@footnotemark\H@@footnotetext
15794   }%
15795 }%
15796 \fi
15797 \def\Hy@BeginAnnot#1{%
15798   \ifmmode\else\beginL\fi%
15799   \global\advance\c@Hy@AnnotLevel\@ne
15800   \ifnum\c@Hy@AnnotLevel=\@ne
15801     #1%
15802   \fi
15803 }
15804 \def\Hy@endAnnot{%
15805   \ifnum\c@Hy@AnnotLevel=\@ne
15806     \Hy@endcolorlink
15807     \@pdfm@mark{eann}%
15808   \fi
15809   \global\advance\c@Hy@AnnotLevel\m@ne
15810   \ifmmode\else\endL\fi%
15811 }
15812 \def\hyper@link#1#2#3{%
15813   \hyper@linkstart{#1}{#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\else\if@RTL\endR\fi\fi
15814 }
15815 \def\hyper@linkfile#1#2#3{%
15816   \leavevmode
15817   \Hy@BeginAnnot{%
15818     \def\Hy@pstringF{#2}%
15819     \Hy@CleanupFile\Hy@pstringF
15820     \Hy@pstringdef\Hy@pstringF\Hy@pstringF
15821     \Hy@pstringdef\Hy@pstringD{#3}%
15822     \Hy@MakeRemoteAction
15823     \@pdfm@mark{%
15824       bann<<%
15825       /Type/Annot%
15826       /Subtype/Link%
15827       \ifHy@pdfa /F 4\fi
15828       \Hy@setpdfborder
15829       \ifx\@filebordercolor\relax
15830       \else
15831         /C[\@filebordercolor]%
15832       \fi
15833       /A<<%
15834       /S/GoToR%
15835       /F(\Hy@pstringF)%
15836       /D%
15837       \ifx\@#3\%
15838         [\Hy@href@page\@pdfremotestartview]%
15839       \else
15840         (\Hy@pstringD)%
15841       \fi
15842       \Hy@SetNewWindow
15843       \Hy@href@nextactionraw
15844     >>%

```





```

15845     >>%
15846   }%
15847   \Hy@colorlink\@filecolor
15848 }%
15849 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
15850 \Hy@EndAnnot
15851 }
15852 \def\@hyper@launch run:#1\#2#3{% filename, anchor text linkname
15853 \leavevmode
15854 \Hy@BeginAnnot{%
15855   \Hy@pstringdef\Hy@pstringF{#1}%
15856   \Hy@pstringdef\Hy@pstringP{#3}%
15857   \@pdfm@mark{%
15858     bann<<%
15859     /Type/Annot%
15860     /Subtype/Link%
15861     \ifHy@pdfa /F 4\fi
15862     \Hy@setpdfborder
15863     \ifx\@runbordercolor\relax
15864     \else
15865       /C[\@runbordercolor]%
15866     \fi
15867     /A<<%
15868     /F(\Hy@pstringF)%
15869     /S/Launch%
15870     \Hy@SetNewWindow
15871     \ifx\#3\%
15872     \else
15873       /Win<</P(\Hy@pstringP)/F(\Hy@pstringF)>>%
15874     \fi
15875     \Hy@href@nextactionraw
15876     >>%
15877   >>%
15878   }%
15879   \Hy@colorlink\@runcolor
15880 }%
15881 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
15882 \Hy@EndAnnot
15883 }
15884 \def\hyper@linkurl#1#2{%
15885 \leavevmode
15886 \Hy@BeginAnnot{%
15887   \Hy@pstringdef\Hy@pstringURI{#2}%
15888   \@pdfm@mark{%
15889     bann<<%
15890     /Type/Annot%
15891     /Subtype/Link%
15892     \ifHy@pdfa /F 4\fi
15893     \Hy@setpdfborder
15894     \ifx\@urlbordercolor\relax
15895     \else
15896       /C[\@urlbordercolor]%
15897     \fi
15898     /A<<%

```



```

15899         /S/URI%
15900         /URI(\Hy@pstringURI)%
15901         \ifHy@href@ismap
15902             /IsMap true%
15903         \fi
15904         \Hy@href@nextactionraw
15905     >>%
15906 >>%
15907 }%
15908 \Hy@colorlink\@urlcolor
15909 }%
15910 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
15911 \Hy@EndAnnot
15912 }
15913 \def\Acrobatmenu#1#2{%
15914     \Hy@Acrobatmenu{#1}{#2}{%
15915         \Hy@BeginAnnot{%
15916             \EdefEscapeName\Hy@temp@menu{#1}%
15917             \@pdfm@mark{%
15918                 bann<<%
15919                 /Type/Annot%
15920                 /Subtype/Link%
15921                 \ifHy@pdfa /F 4\fi
15922                 \Hy@setpdfborder
15923                 \ifx\@menubordercolor\relax
15924                     \else
15925                         /C[\@menubordercolor]%
15926                     \fi
15927                 /A<<%
15928                 /S/Named%
15929                 /N/\Hy@temp@menu
15930                 \Hy@href@nextactionraw
15931             >>%
15932         >>%
15933         }%
15934         \Hy@colorlink\@menucolor
15935     }%
15936     \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
15937     \Hy@EndAnnot
15938 }%
15939 }
15940 \def\hyper@natlinkstart#1{%
15941     \Hy@backout{#1}%
15942     \hyper@linkstart{cite}{cite.#1}\if@RTL\beginR\fi%
15943     \def\hyper@nat@current{#1}%
15944 }
15945 \def\hyper@natlinkend{%
15946     \if@RTL\endR\fi\hyper@linkend
15947 }
15948 \def\hyper@natlinkbreak#1#2{%
15949     \if@RTL\endR\fi\hyper@linkend#1\hyper@linkstart{cite}{cite.#2}\if@RTL\beginR\fi%
15950 }%
15951 }
15952 \pdfstringdefDisableCommands{%

```



```

15953 \let\LRE\@firstofone
15954 \let\LR\@firstofone
15955 \let\RLE\@firstofone
15956 \let\RL\@firstofone
15957 \def\XeTeX{Xe\TeX}%
15958 \def\XeLaTeX{Xe\LaTeX}%
15959 }
15960 \@ifpackageloaded{longtable}{%
15961   \begingroup
15962     \def\y{\LT@array}%
15963     \@ifundefined{scr@LT@array}{%
15964       \@ifundefined{adl@LT@array}{\def\y{\adl@LT@array}}%
15965     }{\def\y{\scr@LT@array}}%
15966     \long\def\x\refstepcounter#1#2\@sharp#3#4\@nil{%
15967       \expandafter\endgroup
15968       \expandafter\def\y[##1]##2{%
15969         \H@refstepcounter{#1}%
15970         \hyper@makecurrent{table}%
15971         \let\Hy@LT@currentHref\@currentHref
15972         #2\@sharp####4%
15973       }%
15974     }%
15975     \expandafter\expandafter\expandafter\x\y[##1][##2]\@nil
15976   \begingroup
15977     \def\x#1\ifvoid\LT@foot#2\fi#3\@nil{%
15978     \endgroup
15979     \def\LT@start{%
15980       #1%
15981       \ifvoid\LT@foot#2\fi
15982       \let\@currentHref\Hy@LT@currentHref
15983       \Hy@raisedlink{%
15984         \hyper@anchorstart{\@currentHref}\hyper@anchorend
15985       }%
15986       #3%
15987     }%
15988   }%
15989   \expandafter\x\LT@start\@nil
15990 }{}
15991 \bidi@patchcmd\@TextField{%
15992   \@pdfm@mark
15993 }{%
15994   \if@RTL
15995     \hskip\Fld@width
15996   \fi
15997   \@pdfm@mark
15998 }{}{}
15999 \bidi@patchcmd\@TextField{%
16000   \unhbox
16001 }{%
16002   \if@RTL
16003     \hskip-\Fld@width
16004   \fi
16005   \unhbox
16006 }{}{}

```



```

16007 \bidi@patchcmd\@@Radio{%
16008 \@pdfm@mark
16009 }{%
16010 \if@RTL
16011 \hskip\Fld@width
16012 \fi
16013 \@pdfm@mark
16014 }{}{}
16015 \bidi@patchcmd\@@Radio{%
16016 \unhcopy
16017 }{%
16018 \if@RTL
16019 \hskip-\Fld@width
16020 \fi
16021 \unhcopy
16022 }{}{}
16023 \bidi@patchcmd\@Submit{%
16024 \@pdfm@mark
16025 }{%
16026 \if@RTL
16027 \null
16028 \hskip\wd\pdfm@box
16029 \fi
16030 \@pdfm@mark
16031 }{}{}
16032 \bidi@patchcmd\@Submit{%
16033 \unhbox
16034 }{%
16035 \if@RTL
16036 \hskip-\wd\pdfm@box
16037 \fi
16038 \unhbox
16039 }{}{}
16040 \bidi@patchcmd\@Reset{%
16041 \@pdfm@mark
16042 }{%
16043 \if@RTL
16044 \null
16045 \hskip\wd\pdfm@box
16046 \fi
16047 \@pdfm@mark
16048 }{}{}
16049 \bidi@patchcmd\@Reset{%
16050 \unhbox
16051 }{%
16052 \if@RTL
16053 \hskip-\wd\pdfm@box
16054 \fi
16055 \unhbox
16056 }{}{}

```

### 103 File `imsproc-xetex-bidi.def`

```

16057 \ProvidesFile{imsproc-xetex-bidi.def}[2017/06/09 v0.1 bidi adaptations for imsproc class for

```



```

16058 \newenvironment{thebibliography}[1]{%
16059   \@bibtitlestyle
16060   \normalfont\bibliofont\labelsep .5em\relax
16061   \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
16062   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
16063   \bidi@thebibliography@font@hook
16064   \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
16065     \leftmargin\labelwidth \advance\leftmargin\labelsep
16066     \usecounter{enumiv}}%
16067   \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
16068   \sfcode`\.=\@m
16069 }{%
16070   \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
16071   \endlist
16072 }
16073
16074 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
16075   \columnseprule\z@ \columnsep 35\p@
16076   \@indextitlestyle
16077   \thispagestyle{plain}%
16078   \let\item\@idxitem
16079   \parindent\z@ \parskip\z@\@plus.3\p@\relax
16080   \if@RTL\raggedleft\else\raggedright\fi
16081   \hyphenpenalty\@M
16082   \footnotesize}
16083 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
16084 \def\@subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
16085 \def\@subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
16086
16087 \def\right@footnoterule{%
16088   \kern-.4\p@
16089   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
16090   \kern11\p@\kern-\footnotesep}
16091 \def\left@footnoterule{\kern-.4\p@
16092   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
16093 \def\@makefnmark{%
16094   \leavevmode
16095   \raise.9ex\hbox{\fontsize\sf@size\z@\normalfont\@thefnmark}}%
16096 }
16097
16098 \def\part{\@startsection{part}{0}%
16099   \z@{\linespacing\@plus\linespacing}{.5\linespacing}%
16100   {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
16101 \def\@tocline#1#2#3#4#5#6#7{\relax
16102   \ifnum #1>\c@tocdepth % then omit
16103   \else
16104     \par \addpenalty\@secpenalty\addvspace{#2}%
16105     \begingroup \hyphenpenalty\@M
16106     \@ifempty{#4}{%
16107       \@tempdima\c@tocindent\number#1\endcsname\relax
16108     }{%
16109       \@tempdima#4\relax
16110     }%
16111     \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\leftskip\fi#4\relax

```



```

16112 \if@RTL\leftskip\else\rightskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
16113 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
16114 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
16115 \nobreak
16116 \endgroup
16117 \fi}
16118 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
16119 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
16120 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
16121 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
16122 \def\maketitle{\par
16123 \@topnum\z@ % this prevents figures from falling at the top of page 1
16124 \@setcopyright
16125 \thispagestyle{firstpage}% this sets first page specifications
16126 \uppercase\nonmath\shorttitle
16127 \ifx\@empty\shortauthors \let\shortauthors\shorttitle
16128 \else \andify\shortauthors
16129 \fi
16130 \@maketitle@hook
16131 \begingroup
16132 \@maketitle
16133 \toks@\@xp{\shortauthors}\@temptokena\@xp{\shorttitle}%
16134 \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
16135 \edef\@tempa{%
16136 \@nx\markboth{\the\toks4
16137 \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
16138 \@tempa
16139 \endgroup
16140 \c@footnote\z@
16141 \@cleartopmattertags
16142 }

```

## 104 File leqno-xetex-bidi.def

```

16143 \ProvidesFile{leqno-xetex-bidi.def}[2018/01/07 v0.2 bidi adaptations for leqno tag for XeTeX]
16144 \renewcommand\@eqnnum{\hb@xt@.01\p@{}%
16145 \rlap{\hskip -\displaywidth
16146 {\normalfont\normalcolor\if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}

```

## 105 File letter-xetex-bidi.def

```

16147 \ProvidesFile{letter-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for standard letter class]
16148 \renewcommand*\@opening[1]{\ifx\@empty\fromaddress
16149 \thispagestyle{firstpage}%
16150 {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
16151 \else % home address
16152 \thispagestyle{empty}%
16153 {\if@RTL\raggedright\else\raggedleft\fi\if@RTL\begin{tabular}{r@{}}\else\begin{tabular}{l@{}}
16154 \fromaddress \\\*[2\parskip]%
16155 \@date \end{tabular}\par}%
16156 \fi
16157 \vspace{2\parskip}%
16158 {\if@RTL\raggedleft\else\raggedright\fi \toname \\\ toaddress \par}%
16159 \vspace{2\parskip}%

```



```

16160 #1\par\nobreak}
16161 \renewcommand\left@footnoterule{%
16162   \kern-\p@
16163   \hrule \@width .4\columnwidth
16164   \kern .6\p@}
16165 \renewcommand\right@footnoterule{%
16166   \kern-\p@
16167   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
16168   \kern .6\p@}

```

## 106 File lettrine-xetex-bidi.def

```

16169 \ProvidesFile{lettrine-xetex-bidi.def}[2022/11/06 v0.8 bidi adaptations for lettrine package]
16170 \def\@lettrine[#1]#2#3{%
16171   \def\l@initial{#2}\let\l@refstring\l@initial
16172   \setcounter{L@lines}{\value{DefaultLines}}%
16173   \setcounter{L@depth}{\value{DefaultDepth}}%
16174   \renewcommand*{\L@hang}{\DefaultLhang}%
16175   \renewcommand*{\L@oversize}{\DefaultLoversize}%
16176   \renewcommand*{\L@raise}{\DefaultLraise}%
16177   \renewcommand*{\L@ante}{}%
16178   \setlength{\L@Findent}{\DefaultFindent}%
16179   \setlength{\L@Nindent}{\DefaultNindent}%
16180   \setlength{\L@slope}{\DefaultSlope}%
16181   \setlength{\L@novskip}{\DiscardVskip}%
16182   \ifLettrineImage\L@imagetrue\else\L@imagefalse\fi
16183   \ifLettrineOnGrid\L@gridtrue\else\L@gridfalse\fi
16184   \ifLettrineRealHeight\L@realhtrue\else\L@realhfalse\fi
16185   \setkeys{L}{#1}%
16186   \sbox{\L@tbox}{\LettrineTextFont{\LettrineSecondString}}%
16187   \ifL@realh
16188     \def\@tempa{#3}%
16189     \ifx\@tempa\@empty
16190       \PackageWarning{lettrine.sty}%
16191         {Empty second argument, \MessageBreak
16192           ignoring option `realheight';}%
16193     \else
16194       \sbox{\L@tbox}{\LettrineTextFont{#3}}%
16195     \fi
16196   \fi
16197   \if\DefaultOptionsFile\relax
16198   \else
16199     \begingroup
16200     \InputIfFileExists{\DefaultOptionsFile}%
16201     {}%
16202     {\PackageWarning{lettrine.sty}%
16203       {File \DefaultOptionsFile\space not found}%
16204     }%
16205     \def\color##1##{\l@color{##1}}%
16206     \let\l@color\@gobbletwo
16207     \def\textcolor##1##{\l@textcolor{##1}}%
16208     \def\l@textcolor##1##2##3{##3}%
16209     \expandafter\ifx\csname l@#2-keys\endcsname\relax
16210       \gdef\l@LOKeys{}%

```



```

16211         \else
16212             \xdef\l@LOKeys{\csname l@#2-keys\endcsname}%
16213         \fi
16214     \endgroup
16215     \def\KV@prefix{KV@L@}%
16216     \let\@tempc\relax
16217     \expandafter\KV@do\l@LOKeys,\relax,
16218     \setupL@lbox
16219     \setlength{\LettrineWidth}{\wd\L@lbox}%
16220     \def\KV@prefix{KV@L@}%
16221     \let\@tempc\relax
16222     \expandafter\KV@do\l@LOKeys,\relax,
16223     \setkeys{L}{#1}%
16224 \fi
16225 \setupL@lbox
16226 \setlength{\LettrineWidth}{\wd\L@lbox}%
16227 \setlength{\LettrineHeight}{\ht\L@lbox}%
16228 \setlength{\LettrineDepth}{\dp\L@lbox}%
16229 \begingroup
16230 \def\IeC##1{##1}%
16231 \@tempdima=\L@oversize pt\relax
16232 \PackageInfo{lettrine.sty}%
16233 {Targeted height = \the\L@target@ttht\MessageBreak
16234 (for loversize=0, accent excluded),\MessageBreak
16235 Lettrine height = \the\LettrineHeight\space (#2)%
16236 \ifdim\@tempdima=\z@ \else \space loversize=\L@oversize\fi;%
16237 \MessageBreak reported}%
16238 \endgroup
16239 \sbox{\L@tbox}{\LettrineTextFont{#3}}%
16240 \setlength{\L@first}{\LettrineHeight}%
16241 \setlength{\L@lraise}{\L@raise\L@target@ttht}%
16242 \addtolength{\L@first}{\L@lraise}%
16243 \ifnum\value{L@lines}=1
16244     \addtolength{\L@first}{-\ht\L@tbox}%
16245 \else
16246     \addtolength{\L@first}{-\L@target@ttht}%
16247     \addtolength{\L@lraise}{-\L@target@dp}%
16248 \fi
16249 \par
16250 \ifdim\L@first>\L@novskip
16251     \ifL@grid
16252         \@tempdima=\baselineskip
16253         \@tempdimb=\@tempdima
16254         \advance\@tempdimb by \L@novskip
16255         \@tempcnta=1
16256         \loop\ifdim\L@first>\@tempdimb
16257             \advance\@tempcnta by 1
16258             \advance\L@first by -\@tempdima
16259         \repeat
16260         \L@first=\@tempcnta\baselineskip
16261     \fi
16262     \vskip\L@first
16263 \fi
16264 \setlength{\L@Pindent}{\wd\L@lbox}%

```





```

16265 \addtolength{\L@Pindent}{-\L@hang\wd\L@lbox}%
16266 \settowidth{\L@first}{\L@ante}%
16267 \addtolength{\L@Pindent}{\L@first}%
16268 \addtolength{\L@Pindent}{\L@Findent}%
16269 \setlength{\L@first}{\linewidth}%
16270 \addtolength{\L@first}{-\L@Pindent}%
16271 \addtolength{\L@Nindent}{\L@Pindent}%
16272 \setlength{\L@next}{\linewidth}%
16273 \addtolength{\L@next}{-\L@Nindent}%
16274 \addtolength{\L@Pindent}{\@totalleftmargin}%
16275 \addtolength{\L@Nindent}{\@totalleftmargin}%
16276 \addtocounter{L@lines}{1}%
16277 \addtocounter{L@lines}{\value{L@depth}}%
16278 \if@RTL
16279 \def\L@parshape{\c@L@lines \z@ \the\L@first}%
16280 \else
16281 \def\L@parshape{\c@L@lines \the\L@Pindent \the\L@first}%
16282 \fi
16283 \@tempcnta=\tw@
16284 \@whilenum \@tempcnta<\c@L@lines\do{%
16285 \if@RTL
16286 \edef\L@parshape{\L@parshape \z@ \the\L@next}%
16287 \else
16288 \edef\L@parshape{\L@parshape \the\L@Nindent \the\L@next}%
16289 \fi
16290 \addtolength{\L@Nindent}{\L@slope}%
16291 \addtolength{\L@next}{-\L@slope}%
16292 \advance\@tempcnta\@ne}%
16293 \if@RTL
16294 \edef\L@parshape{\L@parshape \z@ \the\linewidth}%
16295 \else
16296 \edef\L@parshape{\L@parshape \@totalleftmargin \the\linewidth}%
16297 \fi
16298 \noindent
16299 \parshape=\L@parshape\relax
16300 \smash{\llap{\mbox{\L@ante}\raisebox{\L@lraise}{\usebox{\L@lbox}}}%
16301 \hskip \the\L@Findent}}%
16302 \usebox{\L@tbox}%
16303 \ifnum\@listdepth>0 \lreset@listparshape \fi
16304 }
16305

```

## 107 File `lineno-xetex-bidi.def`

```

16306 \ProvidesFile{lineno-xetex-bidi.def}[2018/01/28 v0.2 bidi adaptations for lineno package for
16307 \bidi@patchcmd{\MakeLineNo}{%
16308 \hb@xt@\z@{\makeLineNumber}%
16309 }{%
16310 \hboxL to \z@{\makeLineNumber}%
16311 }{}{}
16312
16313 \bidi@patchcmd{\makeLineNumberLeft}{\LineNumber}{%
16314 \if@RTL
16315 \hb@xt@\linewidthwidth{\LineNumber\hss}%

```



```

16316 \else
16317     \LineNumber
16318 \fi
16319 }{}{}
16320
16321 \bidi@patchcmd{\makeLineNumberRight}{\%
16322     \hb@xt@\linenumberwidth{\hss\LineNumber}%
16323 }{\%
16324     \if@RTL
16325         \LineNumber
16326     \else
16327         \hb@xt@\linenumberwidth{\hss\LineNumber}%
16328     \fi
16329 }{}{}
16330
16331 \bidi@AfterPreamble{\%
16332     \if@RTLmain
16333         \rightlinenumbers*
16334     \else
16335         \leftlinenumbers*
16336     \fi
16337     \@ifpackagewith{lineno}{left}{\%
16338         \leftlinenumbers*
16339     }{}
16340     \@ifpackagewith{lineno}{right}{\%
16341         \rightlinenumbers*
16342     }{}
16343 }
16344

```

## 108 File listings-xetex-bidi.def

```

16345 \ProvidesFile{listings-xetex-bidi.def}[2018/09/15 v1.5 bidi adaptations for listings package]
16346 \lst@Key{captiondirection}{textdirection}{\%
16347     \lstKV@SwitchCases{#1}%
16348     {textdirection:\\%
16349         RTL:\chardef\bidi@lst@caption@direction\@ne\\%
16350         LTR:\chardef\bidi@lst@caption@direction\z@%
16351     }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
16352
16353 \lst@Key{captionscript}{textscript}{\%
16354     \lstKV@SwitchCases{#1}%
16355     {textscript:\\%
16356         latin:\chardef\bidi@lst@caption@script\@ne\\%
16357         nonlatin:\chardef\bidi@lst@caption@script\z@%
16358     }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
16359
16360 \newcommand*\bidi@lst@ensure@caption@direction[2]{\%
16361     \@ifundefined{bidi@lst@caption@direction}{\%
16362         \ifnum\bidi@lst@caption@direction=\z@%
16363             #1%
16364         \else%
16365             \ifnum\bidi@lst@caption@direction=\@ne%
16366                 #2%

```



```

16367         \fi%
16368     \fi%
16369 }}
16370
16371 \newcommand*{\bidi@lst@ensure@caption@script}[2]{%
16372     \@ifundefined{bidi@lst@caption@script}{}{%
16373         \ifnum\bidi@lst@caption@script=\z@%
16374             #1%
16375         \else%
16376             \ifnum\bidi@lst@caption@script=\@ne%
16377                 #2%
16378             \fi%
16379         \fi%
16380 }}
16381
16382 \long\def\@bidi@lst@makecaption#1#2{%
16383     \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
16384     \vskip\abovecaptionskip
16385     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16386     \sbox\@tempboxa{%
16387         \bidi@lst@ensure@caption@direction{\beginL}{\beginR}%
16388         #1: #2%
16389         \bidi@lst@ensure@caption@direction{\endL}{\endR}%
16390     }%
16391     \ifdim \wd\@tempboxa >\hsize
16392         #1: #2\par
16393     \else
16394         \global \@minipagefalse
16395         \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
16396     \fi
16397     \vskip\belowcaptionskip}%
16398 \def\lst@makecaption{\@bidi@lst@makecaption}
16399 \def\lst@maketitle{\@bidi@lst@makecaption\lst@title@dropdelim}
16400 \bidi@AtEndPreamble{%
16401     \bidi@patchcmd{\lst@MakeCaption}{%
16402         \ifx #1t%
16403             \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
16404                 \expandafter\refstepcounter
16405             \fi {lstlisting}%
16406 }{%
16407     \ifx #1t%
16408         \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16409         \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
16410             \expandafter\refstepcounter
16411         \fi {lstlisting}%
16412         \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLfalse}%
16413 }{}{}%
16414 \bidi@patchcmd{\lst@MakeCaption}{%
16415     \addcontentsline{lol}{lstlisting}%
16416     {\protect\numberline{\thelstlisting}\lst@caption}%
16417 }{%
16418 \begingroup%
16419     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16420     \addcontentsline{lol}{lstlisting}%

```



```

16421             {\protect\numberline{\thelstlisting}\lst@caption}%
16422 \endgroup%
16423 }{}{}%
16424 }
16425 \@ifpackageloaded{caption}{%
16426   \AtBeginCaption{%
16427     \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
16428     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16429   }
16430   \let\@bidi@lst@makecaption\caption@makecaption%
16431   \def\lst@makecaption{\caption@starfalse\@bidi@lst@makecaption}%
16432   \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}%
16433 }{}%
16434 \AtBeginDocument{%
16435   \@ifundefined{captionlabelfalse}{}{}%
16436   \def\lst@maketitle{\captionlabelfalse\@bidi@lst@makecaption\@empty}}%
16437 \@ifundefined{caption@startrue}{}{}%
16438 \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}}%
16439 }%
16440 }
16441 \AtBeginDocument{
16442   \@ifundefined{thechapter}{\let\lst@ifnumberbychapter\iffalse}{}
16443   \lst@ifnumberbychapter
16444     \gdef\thelstlisting%
16445       {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@lstlisting}
16446   \else
16447     \gdef\thelstlisting{\@arabic\c@lstlisting}
16448   \fi}

```

## 109 File loadingorder-xetex-bidi.def

```

16449 \ProvidesFile{loadingorder-xetex-bidi.def}[2017/12/29 v0.97 making sure that bidi is the las
16450 \bidi@isloaded{amsmath}
16451 \bidi@isloaded{amstext}
16452 \bidi@isloaded{amsthm}
16453 \bidi@isloaded{animate}
16454 \bidi@isloaded{breqn}
16455 \bidi@isloaded{cals}
16456 \bidi@isloaded{caption}
16457 \bidi@isloaded{crop}
16458 \bidi@isloaded{cuted}
16459 \bidi@isloaded{cutwin}
16460 \bidi@isloaded{color}
16461 \bidi@isloaded{dblfnote}
16462 \bidi@isloaded{diagbox}
16463 \bidi@isloaded{xcolor}
16464 \bidi@isloaded{colortbl}
16465 \bidi@isloaded{float}
16466 \bidi@isloaded{floatrow}
16467 \bidi@isloaded{flowfram}
16468 \bidi@isloaded{framed}
16469 \bidi@isloaded{ftnright}
16470 \bidi@isloaded{xltextra}
16471 \bidi@isloaded{xunicode}

```



```

16472 \bidi@isloaded{wrapfig}
16473 \bidi@isloaded{graphicx}
16474 \bidi@isloaded{geometry}
16475 \bidi@isloaded{hvfloat}
16476 \bidi@isloaded{mdframed}
16477 \bidi@isloaded{midfloat}
16478 \bidi@isloaded{ntheorem}
16479 \bidi@isloaded{ntheorem-hyper}
16480 \bidi@isloaded{hyperref}
16481 \bidi@isloaded{fancybox}
16482 \bidi@isloaded{fancyhdr}
16483 \bidi@isloaded{fix2col}
16484 \bidi@isloaded{draftwatermark}
16485 \bidi@isloaded{empheq}
16486 \bidi@isloaded{overpic}
16487 \bidi@isloaded{pdfpages}
16488 \bidi@isloaded{listings}
16489 \bidi@isloaded{lettrine}
16490 \bidi@isloaded{lineno}
16491 \bidi@isloaded{media9}
16492 \bidi@isloaded{pstricks}
16493 \bidi@isloaded{pgf}
16494 \bidi@isloaded{picinpar}
16495 \bidi@isloaded{quotchap}
16496 \bidi@isloaded{tikz}
16497 \bidi@isloaded{titlesec}
16498 \bidi@isloaded{titletoc}
16499 \bidi@isloaded{array}
16500 \bidi@isloaded{soul}
16501 \bidi@isloaded{stabular}
16502 \bidi@isloaded{subfig}
16503 \bidi@isloaded{subfigure}
16504 \bidi@isloaded{supertabular}
16505 \bidi@isloaded{xtab}
16506 \bidi@isloaded{longtable}
16507 \bidi@isloaded{arydshln}
16508 \bidi@isloaded{multicol}
16509 \bidi@isloaded{multienum}
16510 \bidi@isloaded{minitoc}
16511 \bidi@isloaded{natbib}
16512 \bidi@isloaded{newfloat}
16513 \bidi@isloaded{ragged2e}
16514 \bidi@isloaded{rotating}
16515 \bidi@isloaded{tabls}
16516 \bidi@isloaded{tabulary}
16517 \bidi@isloaded{tocbasic}
16518 \bidi@isloaded{tocstyle}
16519 \bidi@isloaded{tocbibind}
16520 \bidi@isloaded{fontspec}
16521 \bidi@isloaded{arabxetex}
16522 \bidi@isloaded{polyglossia}
16523 \bidi@isloaded{fancyvrb}
16524 \AtBeginDocument{
16525   \if@bidi@amsmathloaded@else

```



```

16526 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amsmath after bidi pack
16527 \fi%
16528 \if@bidi@amstextloaded@else
16529 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amstext after bidi pack
16530 \fi%
16531 \if@bidi@amsthmloaded@else
16532 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amsthm after bidi packa
16533 \fi%
16534 \if@bidi@animateloaded@else
16535 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package animate after bidi pack
16536 \fi%
16537 \if@bidi@breqnloaded@else
16538 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package breqn after bidi packag
16539 \fi%
16540 \if@bidi@calsloaded@else
16541 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cals after bidi package
16542 \fi%
16543 \if@bidi@captionloaded@else
16544 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package caption after bidi pack
16545 \fi%
16546 \if@bidi@croploaded@else
16547 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package crop after bidi package
16548 \fi%
16549 \if@bidi@colorloaded@else
16550 \@ifpackageloaded{hyperref}{-}{%
16551 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package color after bidi packag
16552 \fi%
16553 \if@bidi@cutwinloaded@else
16554 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cutwin after bidi packa
16555 \fi%
16556 \if@bidi@cutedloaded@else
16557 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cuted after bidi packag
16558 \fi%
16559 \if@bidi@dblfnoteloaded@else
16560 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package dblfnote after bidi pac
16561 \fi%
16562 \if@bidi@diagboxloaded@else
16563 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package diagbox after bidi pack
16564 \fi%
16565 \if@bidi@xcolorloaded@else
16566 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xcolor after bidi packa
16567 \fi%
16568 \if@bidi@colortblloaded@else
16569 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package colortbl after bidi pac
16570 \fi%
16571 \if@bidi@floatloaded@else
16572 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package float after bidi packag
16573 \fi%
16574 \if@bidi@floatrowloaded@else
16575 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package floatrow after bidi pac
16576 \fi%
16577 \if@bidi@flowframloaded@else
16578 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package flowfram after bidi pac
16579 \fi%

```



```

16580 \if@bidi@framedloaded@else
16581   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package framed after bidi packa
16582 \fi%
16583   \if@bidi@ftnrightloaded@else
16584   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ftnright after bidi pac
16585 \fi%
16586 \if@bidi@xltxtraloaded@else
16587   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xltxtra after bidi pack
16588 \fi%
16589 \if@bidi@xunicodeloaded@else
16590   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xunicode after bidi pac
16591 \fi%
16592 \if@bidi@wrapfigloaded@else
16593   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package wrapfig after bidi pack
16594 \fi%
16595 \if@bidi@graphicxloaded@else
16596   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package graphicx after bidi pac
16597 \fi%
16598   \if@bidi@geometryloaded@else
16599   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package geometry after bidi pac
16600 \fi%
16601 \if@bidi@hvfloatloaded@else
16602   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package hvfloat after bidi pack
16603 \fi%
16604   \if@bidi@mdframedloaded@else
16605   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package mdframed after bidi pac
16606 \fi%
16607   \if@bidi@midfloatloaded@else
16608   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package midfloat after bidi pac
16609 \fi%
16610   \if@bidi@ntheoremloaded@else
16611   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ntheorem after bidi pac
16612 \fi%
16613 \if@bidi@hyperrefloaded@else
16614   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package hyperref after bidi pac
16615 \fi%
16616   \if@bidi@fancyboxloaded@else
16617   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancybox after bidi pac
16618 \fi%
16619 \if@bidi@fancyhdrloaded@else
16620   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancyhdr after bidi pac
16621 \fi%
16622 \if@bidi@draftwatermarkloaded@else
16623   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package draftwatermark after bi
16624 \fi%
16625 \if@bidi@empheqloaded@else
16626   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package empheq after bidi packa
16627 \fi%
16628   \if@bidi@overpicloaded@else
16629   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package overpic after bidi pack
16630 \fi%
16631 \if@bidi@pdfpagesloaded@else
16632   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pdfpages after bidi pac
16633 \fi%

```



```

16634 \if@bidi@lettrineloaded@else
16635   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package lettrine after bidi pac
16636   \fi%
16637 \if@bidi@linenoloaded@else
16638   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package lineno after bidi packa
16639   \fi%
16640 \if@bidi@listingsloaded@else
16641   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package listings after bidi pac
16642   \fi%
16643 \csname if@bidi@media9loaded@endcsname\else
16644   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package media9 after bidi packa
16645   \fi%
16646 \if@bidi@pstricksloaded@else
16647   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pstricks after bidi pac
16648   \fi%
16649 \if@bidi@pgfloaded@else
16650   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pgf after bidi package.
16651   \fi%
16652 \if@bidi@picinparloaded@else
16653   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package picinpar after bidi pac
16654   \fi%
16655 \if@bidi@quotchaploaded@else
16656   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package quotchap after bidi pac
16657   \fi%
16658 \if@bidi@tikzloaded@else
16659   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tikz after bidi package
16660   \fi%
16661 \if@bidi@titlesecloaded@else
16662   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package titlesec after bidi pac
16663   \fi%
16664 \if@bidi@titletocloaded@else
16665   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package titletoc after bidi pac
16666   \fi%
16667 \if@bidi@arrayloaded@else
16668   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package array after bidi packag
16669   \fi%
16670 \if@bidi@stabularloaded@else
16671   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package stabular after bidi pac
16672   \fi%
16673 \if@bidi@soulloaded@else
16674   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package soul after bidi package
16675   \fi%
16676 \if@bidi@subfigloaded@else
16677   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package subfig after bidi packa
16678   \fi%
16679 \if@bidi@subfigureloaded@else
16680   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package subfigure after bidi pa
16681   \fi%
16682 \if@bidi@supertabularloaded@else
16683   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package supertabular after bidi
16684   \fi%
16685 \if@bidi@xtabloaded@else
16686   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xtab after bidi package
16687   \fi%

```





```

16688 \if@bidi@longtableloaded@else
16689   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package longtable after bidi pa
16690 \fi%
16691 \if@bidi@arydshlnloaded@else
16692   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package arydshln after bidi pac
16693 \fi%
16694 \if@bidi@multicolloaded@else
16695   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package multicol after bidi pac
16696 \fi%
16697 \if@bidi@multienumloaded@else
16698   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package multienum after bidi pa
16699 \fi%
16700 \if@bidi@minitocloaded@else
16701   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package minitoc after bidi pack
16702 \fi%
16703 \if@bidi@natbibloaded@else
16704   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package natbib after bidi packa
16705 \fi%
16706 \if@bidi@newfloatloaded@else
16707   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package newfloat after bidi pac
16708 \fi%
16709 \csname if@bidi@ragged2eloaded@endcsname\else
16710   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ragged2e after bidi pac
16711 \fi%
16712 \if@bidi@rotatingloaded@else
16713   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package rotating after bidi pac
16714 \fi%
16715 \if@bidi@tblsloaded@else
16716   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tbls after bidi packag
16717 \fi%
16718 \if@bidi@tabularyloaded@else
16719   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tabulary after bidi pac
16720 \fi%
16721 \if@bidi@tocbasicloaded@else
16722   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tocbasic after bidi pac
16723 \fi%
16724 \if@bidi@tocstyleloaded@else
16725   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tocstyle after bidi pac
16726 \fi%
16727 \if@bidi@tocbibindloaded@else
16728   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tocbibind after bidi pa
16729 \fi%
16730 \if@bidi@fontspecloaded@else
16731   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fontspec after bidi pac
16732 \fi%
16733 \if@bidi@arabxetexloaded@else
16734   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package arabxetex after bidi pa
16735 \fi%
16736 \if@bidi@polyglossialloaded@else
16737   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package polyglossia after bidi
16738 \fi%
16739 \if@bidi@fancyvrbloaded@else
16740   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancyvrb after bidi pac
16741 \fi%

```



16742 }

## 110 File longtable-xetex-bidi.def

```
16743 \ProvidesFile{longtable-xetex-bidi.def}[2022/05/20 v0.6 bidi adaptations for longtable packa
16744 \def\LT@array[#1]#2{%
16745   \refstepcounter{table}\stepcounter{LT@tables}%
16746   \if l#1%
16747     \if@RTLtab\LTleft\fill \LTright\z@\else\LTleft\z@ \LTright\fill\fi
16748   \else\if r#1%
16749     \if@RTLtab\LTleft\z@ \LTright\fill\else\LTleft\fill \LTright\z@\fi
16750   \else\if c#1%
16751     \LTleft\fill \LTright\fill
16752   \fi\fi\fi
16753   \let\LT@mc\multicolumn
16754   \let\LT@@tabarray\@tabarray
16755   \let\LT@@hl\hline
16756   \def\@tabarray{%
16757     \let\hline\LT@@hl
16758     \LT@@tabarray}%
16759   \let\\LT@tabularcr\let\tabularnewline\\%
16760   \def\newpage{\noalign{\break}}%
16761   \def\pagebreak{\noalign{\ifnum`}=0\fi\@testopt{LT@no@pgbk-}4}%
16762   \def\nopagebreak{\noalign{\ifnum`}=0\fi\@testopt{LT@no@pgbk4}}%
16763   \let\hline\LT@hline \let\kill\LT@kill\let\caption\LT@caption
16764   \@tempdima\ht\strutbox
16765   \let\@endpbox\LT@endpbox
16766   \ifx\extrarowheight\@undefined
16767     \let\@acol\@tabacol
16768     \let\@classz\@tabclassz \let\@classiv\@tabclassiv
16769     \def\@startpbox{\vtop\LT@startpbox}%
16770     \let\@@startpbox\@startpbox
16771     \let\@@endpbox\@endpbox
16772     \let\LT@LL@FM@cr\@tabularcr
16773   \else
16774     \advance\@tempdima\extrarowheight
16775     \col@sep\tabcolsep
16776     \let\@startpbox\LT@startpbox\let\LT@LL@FM@cr\@arraycr
16777   \fi
16778   \setbox\@arstrutbox\hbox{\vrule
16779     \@height \arraystretch \@tempdima
16780     \@depth \arraystretch \dp \strutbox
16781     \@width \z@}%
16782   \let\@sharp#\let\protect\relax
16783   \begingroup
16784     \mkpream{#2}%
16785     \xdef\LT@bchunk{%
16786       \global\advance\c@LT@chunks\@ne
16787       \global\LT@rows\z@\setbox\z@\vbox\bgroup
16788         \LT@setprevdepth
16789         \tabskip\LTleft \noexpand\halign to\hsize\bgroup
16790         \tabskip\z@ \@arstrut \@preamble \tabskip\LTright \cr}%
16791   \endgroup
16792   \expandafter\LT@nofcols\LT@bchunk&\LT@nofcols
```



```

16793 \LT@make@row
16794 \m@th\let\par\@empty
16795 \everycr{}\lineskip\z@\baselineskip\z@
16796 \LT@bchunk}
16797 \def\LT@makecaption#1#2#3{%
16798 \LT@mcol\LT@cols c{\hbox to\z@{\hss\parbox[t]\LTcapwidth{%
16799 \sbox\@tempboxa{\if@RTL\beginR\fi#1{#2: }#3\if@RTL\endR\fi}%
16800 \ifdim\wd\@tempboxa>\hsize
16801 #1{#2: }#3%
16802 \else
16803 \hbox to\hsize{\hfil\box\@tempboxa\hfil}%
16804 \fi
16805 \endgraf\vskip\baselineskip}%
16806 \hss}}
16807 \ifpackageloaded{caption}{%
16808 \renewcommand\LT@makecaption[3]{%
16809 \caption@LT@make{%
16810 \caption@LT@settype\LTcaptiontype
16811 \caption@LT@setup
16812 \caption@setautoposition{\ifcase\LT@rows t\else b\fi}%
16813 \caption@startrue#1\caption@starfalse
16814 \caption@prepare@stepcounter\LTcaptiontype
16815 \caption@begin\LTcaptiontype
16816 \caption@normalsize
16817 \vskip-\ht\strutbox
16818 \caption@ifdefined\FBifcapttop{%
16819 \let\caption@belowskip\@empty}{}%
16820 \caption@make@above
16821 \caption@@make{#2}{#3}\endgraf
16822 \caption@make@below
16823 \caption@end}}}%
16824 }{}
16825 \def\LT@startpbox#1{%
16826 \bgroup\color@begingroup
16827 \let\@footnotetext\LT@p@ftntext
16828 \let\@LTRfootnotetext\LT@p@LTRftntext
16829 \let\@RTLfootnotetext\LT@p@RTLftntext
16830 \setlength\hsize{#1}%
16831 \@arrayparboxrestore
16832 \vrule \@height \ht\@arstrutbox \@width \z@}
16833 \def\LT@p@LTRftntext#1{%
16834 \edef\@tempa{\the\LT@p@ftn\noexpand\LTRfootnotetext[\the\c@footnote]}}%
16835 \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
16836 \def\LT@p@RTLftntext#1{%
16837 \edef\@tempa{\the\LT@p@ftn\noexpand\RTLfootnotetext[\the\c@footnote]}}%
16838 \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
16839
16840
16841 \def\LT@output{%
16842 \ifnum\outputpenalty <-\@Mi
16843 \ifnum\outputpenalty > -\LT@end@pen
16844 \LT@err{floats and marginpars not allowed in a longtable}\@ehc
16845 \else
16846 \setbox\z@\vbox{\unvbox\@cclv}%

```



```

16847 \ifdim \ht\LT@lastfoot>\ht\LT@foot
16848 \dimen@ \pagegoal
16849 \advance \dimen@ -\ht\LT@lastfoot
16850 \ifdim \dimen@ < \ht\z@
16851 \setbox \@cclv \vbox {\unvbox \z@ \copy \LT@foot \vss}%
16852 \makecol
16853 \outputpage
16854 \setbox \z@ \vbox {\box \LT@head}%
16855 \fi
16856 \fi
16857 \global \@colroom \@colht
16858 \global \vsize \@colht
16859 \vbox
16860 { \if@RTL tab \hbox \bgroup \beginR \vbox \bgroup \fi \unvbox \z@ \box \ifvoid \LT@lastfoot \LT@fo
16861 \fi
16862 \else
16863 \setbox \@cclv \vbox {\if@RTL tab \hbox \bgroup \beginR \vbox \bgroup \fi \unvbox \@cclv \copy \LT@fo
16864 \makecol
16865 \outputpage
16866 \global \vsize \@colroom
16867 \copy \LT@head \nobreak
16868 \fi}

```

## 111 File `lscope-xetex-bidi.def`

```

16869 \ProvidesFile{lscope-xetex-bidi.def}[2022/07/14 v0.2 bidi adaptations for lscope package for
16870 \bidi@patchcmd{\LS@rot}{\rotatebox{90}{\box \@outputbox}}{%
16871 \if@RTL
16872 \rotatebox[origin=br]{-90}{\box \@outputbox}%
16873 \else
16874 \rotatebox{90}{\box \@outputbox}%
16875 \fi
16876 }{}{}
16877
16878 \g@addto@macro{\landscape}{%
16879 \if@bidi@csdef{bidi@columnwidth}{%
16880 \bidi@columnwidth \columnwidth
16881 }{}%
16882 \let \bidi@left@footnoterule \left@footnoterule
16883 \let \bidi@right@footnoterule \right@footnoterule
16884 \def \left@footnoterule{%
16885 \if@RTL
16886 \bidi@right@footnoterule
16887 \else
16888 \bidi@left@footnoterule
16889 \fi
16890 }%
16891 \def \right@footnoterule{%
16892 \if@RTL
16893 \bidi@left@footnoterule
16894 \else
16895 \bidi@right@footnoterule
16896 \fi
16897 }%

```



16898 }

## 112 File mathtools-xetex-bidi.def

```
16899 \ProvidesFile{mathtools-xetex-bidi.def}[2018/01/07 v0.1 bidi adaptations for mathtools packa
16900 \MHInternalSyntaxOn
16901 \def\MT_define_tagform:nwnn #1[#2]#3#4{
16902   \@namedef{MT_tagform_#1:n}##1
16903   {\maketag@@@{\if@nonlatin\beginR\fi#3\kern\z@ \ignorespaces#2{##1}\unskip\@italiccorr#4}
16904 }
16905 \renewtagform{default}{\{()\}}
16906 \MHInternalSyntaxOff
```

## 113 File mdframed-xetex-bidi.def

```
16907 \ProvidesFile{mdframed-xetex-bidi.def}[2013/09/22 v0.4 bidi adaptations for mdframed package
16908 \newif\if@bidi@mdf@RTL
16909 \def\mdf@lrbox#1{%
16910   \mdf@patchamsthm%patch amsthm
16911   \if@RTL\@bidi@mdf@RTLtrue\fi%
16912   \@RTLfalse%
16913   \setbox#1\vbox\bgroup%
16914   \color@begingroup%
16915   \if@bidi@mdf@RTL\@RTLtrue\fi%
16916   \mdf@horizontalmargin@equation%
16917   \columnwidth=\hsize%
16918   \textwidth=\hsize%
16919   \let\if@nobreak\iffalse%
16920   \let\if@noskipsec\iffalse%
16921   \let\par\@par%
16922   \let\-\@dischyph%
16923   \let'\@acci\let'\@accii\let\=\@acciii%
16924   \parindent\z@ \parskip\z@skip%
16925   \linewidth\hsize%
16926   \@totalleftmargin\z@%
16927   \leftskip\z@skip \rightskip\z@skip \@rightskip\z@skip%
16928   \parfillskip\@flushglue \lineskip\normallineskip%
16929   \baselineskip\normalbaselineskip%
16930 %% \sloppy%
16931 \let\\\@normalcr%
16932 \mdf@par@local%New feature to restore parskip/parindent local in save box
16933 \ifbool{mdf@suppressfirstparskip}{\vspace*{-\parskip}}{}%
16934 \@afterindentfalse%
16935 %\@afterheading%
16936 }
16937 \renewrobustcmd\mdfframedtitleenv[1]{%
16938   \mdf@lrbox{\mdf@frametitlebox}%
16939   \mdf@frametitlealignment%
16940   \leavevmode{\color{\mdf@frametitlefontcolor}%
16941     \normalfont\mdf@frametitlefont{#1}
16942     \ifbool{mdf@ignorelastdescenders}%
16943     {%
16944       \par\strut\par
16945       \unskip\unskip\setbox0=\lastbox
```



```

16946         \vspace*{\dimexpr\ht\strutbox-\baselineskip\relax}%
16947     }{}}%
16948     \par\unskip\ifvmode\nointerlineskip\hrule \@height\z@ \@width\hsize\fi%%
16949     \endmdf@lrbox\relax%
16950     \mdf@ignorevbadness%
16951     \setbox\mdf@frametitlebox=\vbox{\unvbox\mdf@frametitlebox}%
16952     \mdfframetitleboxwidth=\wd\mdf@frametitlebox\relax%
16953     \mdfframetitleboxheight=\ht\mdf@frametitlebox\relax%
16954     \mdfframetitleboxdepth=\dp\mdf@frametitlebox\relax%
16955     \mdfframetitleboxtotalheight=\dimexpr
16956         \ht\mdf@frametitlebox
16957         +\dp\mdf@frametitlebox%
16958         +\mdf@frametitleaboveskip@length
16959         +\mdf@frametitlebelowskip@length
16960         \relax%
16961 }
16962
16963 \renewrobustcmd*\mdf@footnoteoutput{%
16964     \ifvoid\@mpfootins\else%
16965         \nobreak%
16966         \vskip\mdf@footnotedistance@length%
16967         \normalcolor%
16968         \bidi\@mpfootnoterule%
16969         \unvbox\@mpfootins%
16970     \fi%
16971 }
16972
16973
16974 \renewrobustcmd*\mdf@footnoteinput{%
16975     \def\@mpfn{\mpfootnote}%
16976     \def\thempfn{\thempfootnote}%
16977     \c@mpfootnote\z@%
16978     \let\@footnotetext\@mpfootnotetext%
16979     \let\@LTRfootnotetext\@mpLTRfootnotetext%
16980     \let\@RTLfootnotetext\@mpRTLfootnotetext%
16981 }

```

## 114 File bidi-media9.sty

```

16982 \ProvidesExplPackage{bidi-media9}{2022/02/18}{0.4}
16983 {bidi fixes for media9 package for the XeTeX engine}
16984
16985 \keys_define:nn{media9/mbtn}{
16986     draft .code:n = {},
16987     final .code:n = {},
16988
16989     tooltip .tl_gset_x:N = \g_mix_tooltip_tl,
16990     tooltip .value_required:n = {true},
16991
16992     overface .code:n = {
16993         \sbox\l_mix_poster_box{
16994             \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
16995         \mix_pdfxform:n{\l_mix_poster_box}
16996         \tl_gset:Nx\g_mix_overbtn_tl{\mix_pdflastxform:}

```



```

16997 },
16998 overface .value_required:n = {true},
16999
17000 downface .code:n = {
17001   \sbox\l_mix_poster_box{
17002     \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
17003     \mix_pdfxform:n{\l_mix_poster_box}
17004     \tl_gset:Nx\g_mix_downbtn_tl{\mix_pdflastxform:}
17005   },
17006   downface .value_required:n = {true},
17007
17008   3Dgotoview .code:n = {
17009     \tl_set:Nx\l_tmpa_tl{#1} %extract ref
17010     \regex_replace_once:nnN{([~:~]+):??.*}{\1}\l_tmpa_tl
17011     \tl_trim_spaces:N\l_tmpa_tl
17012     \tl_if_exist:cTF{ann@\l_tmpa_tl}{
17013       \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
17014         \tl_set:Nx\l_tmpb_tl{#1} %extract idx
17015         \regex_replace_once:nnN{([~:~]+):?}{\1}\l_tmpb_tl
17016         \tl_trim_spaces:N\l_tmpb_tl
17017         \tl_if_blank:VF\l_tmpb_tl{
17018           \regex_match:nVTF{^[DFLNP]$}\l_tmpb_tl{
17019             \tl_set:Nx\l_mix_vidx_tl{/\l_tmpb_tl}
17020           }{
17021             \regex_match:nVTF{^[d+~$]\l_tmpb_tl{
17022               \tl_set:Nx\l_mix_vidx_tl{~\l_tmpb_tl}
17023             }{
17024               \regex_replace_once:nnN{^(\s*)}{\1}\l_tmpb_tl
17025               \regex_replace_once:nnN{(\s*)$}{\1}\l_tmpb_tl
17026               \tl_set:Nx\l_mix_vidx_tl{~(\l_tmpb_tl)}
17027             }
17028           }
17029         }
17030       \mix_pdfobj:nnn{{dict}}{
17031         /S/JavaScript/JS~(
17032           if(typeof(annotRM)=='undefined'){annotRM=new-Array();}
17033           if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
17034             annotRM['\l_tmpa_tl']=
17035               this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
17036           }
17037           annotRM['\l_tmpa_tl'].activated=true;
17038         )
17039         \tl_if_blank:VF\l_tmpb_tl{
17040           /Next~<<
17041           /S/GoTo3DView
17042           /TA~\tl_use:c{ann@\l_tmpa_tl}
17043           /V\l_mix_vidx_tl
17044         >>
17045       }
17046     }
17047     \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
17048   }
17049   }{
17050     \msg_warning:nnx{media9}{undefined~reference}{\l_tmpa_tl}

```



```

17051 \cs_if_exist:NF\g_mix_refundefwarned_tl{
17052 \tl_new:N\g_mix_refundefwarned_tl
17053 \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
17054 }
17055 }
17056 },
17057 3Dgotoview .value_required:n = {true},
17058
17059 mediacommand .code:n = {
17060 \tl_set:Nx\l_tmpa_tl{#1}
17061 \regex_replace_once:nnN{([~:~]+):??.*}{\1}\l_tmpa_tl %extract ref
17062 \tl_trim_spaces:N\l_tmpa_tl
17063 \tl_if_exist:cTF{ann@\l_tmpa_tl}{
17064 \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
17065 \tl_set:Nx\l_tmpb_tl{#1}
17066 \regex_replace_once:nnN{[~:~]+\:??}{\1}\l_tmpb_tl
17067 \tl_trim_spaces:N\l_tmpb_tl
17068 \regex_replace_all:nnN{^{\|}$}{\1}\l_tmpb_tl
17069 \tl_set:Nx\l_mix_cmd_tl{
17070 \exp_after:wN\mix_separate_cmd_from_actn:w\l_tmpb_tl[]\q_stop}
17071 \tl_trim_spaces:N\l_mix_cmd_tl
17072 \tl_set:Nx\l_mix_arg_tl{
17073 \exp_after:wN\mix_separate_arg_from_actn:w\l_tmpb_tl[]\q_stop}
17074 \tl_trim_spaces:N\l_mix_arg_tl
17075 \mix_pdfobj:nnn{}{dict}{
17076 /S/JavaScript/JS~(
17077 if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17078 if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
17079 annotRM['\l_tmpa_tl']=
17080 this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
17081 }
17082 annotRM['\l_tmpa_tl'].activated=true;
17083 )
17084 \tl_if_blank:VF\l_mix_cmd_tl{
17085 /Next~<<
17086 /S/RichMediaExecute
17087 /TA~\tl_use:c{ann@\l_tmpa_tl}
17088 /TI~\tl_use:c{main@\l_tmpa_tl}
17089 /CMD~<<
17090 /C~(\l_mix_cmd_tl)
17091 \tl_if_blank:VF\l_mix_arg_tl{
17092 /A~[\l_mix_arg_tl]
17093 }
17094 >>
17095 >>
17096 }
17097 }
17098 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
17099 }
17100 }{
17101 \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
17102 \cs_if_exist:NF\g_mix_refundefwarned_tl{
17103 \tl_new:N\g_mix_refundefwarned_tl
17104 \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}

```





```

17105     }
17106   }
17107 },
17108 mediacommand .value_required:n = {true},
17109
17110 jsaction .code:n = {
17111   \tl_set:Nx\l_tmpa_tl{#1}
17112   \regex_match:nVTF{^[^\{:\}+:\. *$}\l_tmpa_tl{
17113     \regex_replace_once:nnN{([^\{:\}+:\. *$]{\1}\l_tmpa_tl %extract ref
17114     \tl_trim_spaces:N\l_tmpa_tl
17115   }{\tl_clear:N\l_tmpa_tl}
17116   \tl_set:Nx\l_tmpb_tl{#1}
17117   \tl_if_blank:VF\l_tmpa_tl{
17118     \tl_if_exist:cF{ann@\l_tmpa_tl}{
17119       \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
17120       \cs_if_exist:NF\g_mix_refundefwarned_tl{
17121         \tl_new:N\g_mix_refundefwarned_tl
17122         \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
17123       }
17124     }
17125     \regex_replace_once:nnN{[^\{:\}+:\. *$]\l_tmpb_tl
17126   }
17127   \tl_set:Nx\l_tmpb_tl{\exp_after:wN\use:n\l_tmpb_tl}
17128   \tl_trim_spaces:N\l_tmpb_tl
17129   \tl_if_blank:VF\l_tmpb_tl{
17130     \mix_pdfobj:nnn{}{dict}{
17131       /S/JavaScript/JS~(
17132         try{\l_tmpb_tl}catch(e){console.show();console.println(e)})}}
17133   \bool_lazy_and:nnT{
17134     \tl_if_exist_p:c{ann@\l_tmpa_tl}
17135   }{
17136     !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
17137   }{
17138     \mix_pdfobj:nnn{}{dict}{
17139       /S/JavaScript/JS~(
17140         if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17141         if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
17142           annotRM['\l_tmpa_tl']=
17143             this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
17144         }
17145         annotRM['\l_tmpa_tl'].activated=true;
17146       )
17147       \tl_if_blank:VF\l_tmpb_tl{/Next~\mix_pdflastobj:}
17148     }
17149   }
17150   \bool_if:nT{
17151     \bool_lazy_and_p:nn{
17152       \tl_if_exist_p:c{ann@\l_tmpa_tl}
17153     }{
17154       !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
17155     }
17156     || !\tl_if_blank_p:V\l_tmpb_tl
17157   }{
17158     \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}

```



```

17159     }
17160 },
17161 jsaction .value_required:n = {true},
17162
17163 unknown .code:n = {
17164     \msg_error:nnx{media9}{unknown~option}{\l_keys_key_tl}
17165 }
17166 }
17167
17168 \RenewDocumentCommand\includemedia{0{mm}}{%#1 options, #2 text/image #3 media file
17169 \mix_uriend:
17170 \group_begin:
17171 \mix_beginLTR:
17172 \mode_leave_vertical:
17173 %empty stream as appearance dummy
17174 \cs_if_exist:NF\g_mix_appearance_tl{
17175     \hbox_set:Nn\l_mix_poster_box{\phantom{\rule{1pt}{1pt}}}
17176     \mix_pdfxform:n{\l_mix_poster_box}
17177     \tl_gset:Nx\g_mix_appearance_tl{\mix_pdflastxform:}
17178 }
17179 \mix_reset:
17180 \mix_uribegin: %treat URI characters correctly
17181 \keys_set:nn{media9/user}{#1}
17182 \mix_uriend:
17183 \tl_greplace_all:Nnn\g_mix_flashvars_tl{~&}{&}
17184 \tl_greplace_all:Nnn\g_mix_flashvars_tl{&~}{&}
17185 \tl_greplace_all:Nnn\g_mix_flashvars_tl{~=}{=}
17186 \tl_greplace_all:Nnn\g_mix_flashvars_tl{=~}{=}
17187 \tl_gtrim_spaces:N\g_mix_flashvars_tl
17188
17189 \cs_if_exist:NT\Ginput@path{\cs_set_eq:NN\input@path\Ginput@path}
17190
17191 %\hbox_set:Nn\l_mix_poster_box{\group_begin:#2\group_end:}
17192 %\hbox_set:Nn\l_mix_poster_box{#2}
17193 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
17194 \mix_scale:n{\l_mix_poster_box}
17195 \bool_if:nT{
17196     \dim_compare_p:n{\g_mix_tt_tl=\c_zero_dim}||
17197     \dim_compare_p:n{\g_mix_wd_tl=\c_zero_dim}
17198 }{
17199     \tl_gset:Nn\g_mix_usrpbtn_tl{none}
17200 }
17201 \bool_if:NTF\g_mix_usrdraft_bool{
17202     \tl_if_empty:NF\g_mix_usrlabel_tl{
17203         \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{draft}
17204     }
17205     \tl_if_blank:oTF{#2}{
17206         \mix_uribegin: %treat URI characters correctly
17207         \mix_draftbox:n{\tl_to_str:n{#3}}
17208         \mix_uriend:
17209     }{
17210         \hbox_to_wd:nn{\g_mix_wd_tl}{
17211             \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl
17212             \box_use:N\l_mix_poster_box\hss

```



```

17213     }
17214   }
17215 }{
17216   \bool_if:nF{\str_if_eq_p:Vn\g_mix_usrpbtn_tl{none}}{
17217     %attach script that switches off play button overlay upon activation
17218     \mix_pdfobj:nnn{}{stream}{
17219       {}{
17220         var~ocgs=host.getOCGs(host.pageNum);
17221         for(var~i=0;i<ocgs.length;i++){
17222           if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
17223             ocgs[i].state=false;
17224           }
17225         }
17226       }
17227     }
17228     \mix_pdfobj:nnn{}{dict}{
17229       /Type/Filespec/EF~<</F~\mix_pdflastobj:>>/F~(btnoff)%/UF~(btnoff)
17230     }
17231     \tl_gset:Nx\g_mix_assets_tl{(btnoff)~\mix_pdflastobj:}
17232     \tl_set:Nx\l_mix_scripts_tl{~\mix_pdflastobj:~}
17233     %enforce plain playbutton overlay for XeTeX
17234     \sys_if_engine_xetex:T{\tl_gset:Nn\g_mix_usrpbtn_tl{plain}}
17235   }
17236   %embed main asset
17237   \mix_uribegin:
17238   \mix_embedasset:n{#3}
17239   \bool_if:nTF{
17240     \str_if_eq_p:Vn\l_mix_ext_tl{prc}||\str_if_eq_p:Vn\l_mix_ext_tl{u3d}
17241   }{
17242     \bool_gset_true:N\g_mix_iiid_bool
17243     \tl_gset:Nn\g_mix_mainassetsub_tl{3D}
17244   }{
17245     \str_case_e:nnF{\l_mix_base_tl}{
17246       {APlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
17247       {AudioPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
17248       {VPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
17249       {VideoPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
17250       {StrobeMediaPlayback}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
17251     }{\tl_gset:Nn\g_mix_mainassetsub_tl{Flash}}
17252   }
17253   \tl_gset:Nx\g_mix_mainasset_tl{~\g_mix_lastasset_tl}
17254   \mix_uriend:
17255   %secondary assets (added by addresource)
17256   \seq_map_function:NN\g_mix_res_seq\mix_embedasset:n
17257   \seq_map_inline:Nn\g_mix_script_seq{
17258     \mix_embedasset:n{##1}
17259     \tl_put_right:Nx\l_mix_scripts_tl{~\g_mix_lastasset_tl}
17260   }
17261   %attach 3D calculation script
17262   \bool_if:nT{\g_mix_iiid_bool && \g_mix_iiidcalc_bool}{
17263     \mix_embedasset:n{3Dmenu.js}
17264     \tl_put_left:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl~}
17265   }
17266   %create 3D views from file (option 3Dviews)

```



```

17267 \bool_if:nT{\g_mix_iiid_bool && !(\tl_if_blank_p:V\g_mix_vfile_tl)}{
17268 \tl_set:Nn\l_mix_level_tl{-1}
17269 \int_zero:N\l_mix_viewcnt_int
17270 \int_zero:N\l_mix_lineno_int
17271
17272 \ior_open:Nn\l_mix_vfile_stream{\g_mix_vfile_tl}
17273 \ior_map_inline:Nn\l_mix_vfile_stream{
17274 \int_incr:N\l_mix_lineno_int
17275 \keys_set:nn{media9/views}{##1} %process input line
17276 }
17277 \ior_close:N\l_mix_vfile_stream
17278 }
17279 \bool_if:nT{ %create default 3D view if required
17280 \g_mix_iiid_bool &&
17281 (\g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl)
17282 }{
17283 \tl_set_eq:NN\l_mix_bg_tl\g_mix_opt_bg_tl
17284 \tl_set_eq:NN\l_mix_ls_tl\g_mix_opt_ls_tl
17285 \tl_set_eq:NN\l_mix_rm_tl\g_mix_opt_rm_tl
17286 \tl_set_eq:NN\l_mix_psob_tl\g_mix_opt_psob_tl
17287 \tl_set_eq:NN\l_mix_coo_tl\g_mix_opt_coo_tl
17288 \tl_set_eq:NN\l_mix_ctoc_tl\g_mix_opt_ctoc_tl
17289 \tl_set_eq:NN\l_mix_ciiw_tl\g_mix_opt_ciiw_tl
17290
17291 \fp_set_eq:NN\l_mix_roo_fp\g_mix_opt_roo_fp
17292 \fp_set_eq:NN\l_mix_aac_fp\g_mix_opt_aac_fp
17293 \fp_set_eq:NN\l_mix_oscale_fp\g_mix_opt_oscale_fp
17294 \fp_set_eq:NN\l_mix_roll_fp\g_mix_opt_roll_fp
17295
17296 \bool_set_eq:NN\l_mix_ciiw_bool\g_mix_opt_ciiw_bool
17297 \bool_set_eq:NN\l_mix_iiidortho_bool\g_mix_opt_iiidortho_bool
17298 \tl_clear:N\l_mix_naarray_tl
17299
17300 \bool_if:NF\l_mix_ciiw_bool{
17301 \tl_set:Nx\l_mix_args_tl{\l_mix_coo_tl\space\l_mix_ctoc_tl\space}
17302 \exp_after:wN\mix_calc_ciiw:w\l_mix_args_tl\q_stop
17303 }
17304
17305 \tl_clear:N\l_mix_naarray_tl
17306 \tl_clear:N\l_mix_saarray_tl
17307 \tl_set_eq:NN\l_mix_nr_tl\g_mix_nrdflt_tl
17308
17309 \mix_view:n{Default}
17310 \tl_set:Nx\l_mix_dfltview_tl{\mix_pdflastobj:}
17311
17312 }
17313 \mix_pdfobj:nnn{}{dict}{
17314 /Type/RichMediaInstance
17315 /Subtype/\g_mix_mainassetsub_tl
17316 /Asset~\g_mix_mainasset_tl
17317 \bool_if:NF\g_mix_iiid_bool{
17318 /Params~<<
17319 /Binding\str_if_eq:VnTF\g_mix_transp_tl{true}{
17320 /Foreground

```



```

17321         }{
17322             /Background
17323         }
17324         \tl_if_blank:VF\g_mix_flashvars_tl{
17325             /FlashVars~(\g_mix_flashvars_tl)
17326         }
17327     >>
17328 }
17329 }
17330 \tl_if_empty:NF\g_mix_usrlabel_tl{
17331     \mix_keytoaux_now:nn{main@\g_mix_usrlabel_tl}{\mix_pdflastobj:}
17332 }
17333 \mix_pdfobj:nnn{}{dict}{
17334     /Type/RichMediaConfiguration
17335     /Subtype/\g_mix_mainassetssub_tl
17336     /Instances~[\mix_pdflastobj:]
17337 }
17338 \mix_pdfobj:nnn{}{dict}{
17339     /Type/RichMediaContent
17340     /Assets~<</Names~[\g_mix_assets_tl]>>
17341     /Configurations~[\mix_pdflastobj:]
17342     \bool_if:nT{
17343         \g_mix_iiid_bool && !(\tl_if_empty_p:V\l_mix_iiidviewarray_tl)
17344     }{
17345         /Views~[\l_mix_iiidviewarray_tl]
17346     }
17347 }
17348 \tl_set:Nx\l_mix_content_tl{\mix_pdflastobj:}
17349 \bool_if:nT{
17350     \g_mix_iiid_bool && \str_if_eq_p:Vn\g_mix_playtpe_tl{Oscillating}
17351 }{
17352     \tl_gset:Nx\g_mix_playcnt_tl{\int_eval:n{\g_mix_playcnt_tl*2}}
17353 }
17354 %determine floating window size
17355 \bool_if:NT\g_mix_opt_windowed_bool{
17356     \exp_after:wN\mix_parse_winsizearg:w\g_mix_winsize_tl\q_stop
17357 }
17358 \mix_pdfobj:nnn{}{dict}{
17359     /Activation~<<
17360     /Condition\g_mix_act_tl
17361     \bool_if:nT{
17362         \g_mix_iiid_bool &&
17363         !(\str_if_eq_p:Vn\g_mix_playtpe_tl{None})
17364     }{
17365         /Animation~<<
17366         /Subtype/\g_mix_playtpe_tl
17367         /PlayCount~\g_mix_playcnt_tl
17368         /Speed~\g_mix_playspd_tl
17369     >>
17370     }
17371     \bool_if:nT{
17372         \g_mix_iiid_bool && (
17373             \g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl
17374         )

```



```

17375     }{/View~\l_mix_dfltview_tl}
17376     /Presentation~<<
17377         /Transparent~\g_mix_transp_tl
17378         \bool_if:NTF\g_mix_opt_windowed_bool{
17379             /Style/Windowed
17380             /Window~<<
17381                 /Width~<</Default~\tl_mix_fltd>>
17382                 /Height~<</Default~\tl_mix_flht>>
17383                 /Position~<<
17384                 /HOffset~0/VOffset~0
17385                 \str_case:e:nF{\g_mix_winpos_tl}{
17386                     {tl}{/VAlign/Near/HAlign/Near}
17387                     {cl}{/VAlign/Center/HAlign/Near}
17388                     {bl}{/VAlign/Far/HAlign/Near}
17389                     {bc}{/VAlign/Far/HAlign/Center}
17390                     {br}{/VAlign/Far/HAlign/Far}
17391                     {cr}{/VAlign/Center/HAlign/Far}
17392                     {tr}{/VAlign/Near/HAlign/Far}
17393                     {tc}{/VAlign/Near/HAlign/Center}
17394                     }{/HAlign/Center/VAlign/Center}
17395                 >>
17396             >>
17397         }{
17398             /Style/Embedded
17399         }
17400         \bool_if:NTF\g_mix_iiid_bool{
17401             /Toolbar~\g_mix_tools_tl
17402             /NavigationPane~\g_mix_nav_tl
17403         }{
17404             /PassContextClick~\g_mix_contextclick_tl
17405         }
17406     >>
17407     \tl_if_blank:VF\l_mix_scripts_tl{/Scripts~[\l_mix_scripts_tl]}
17408 >>
17409     /Deactivation~<</Condition\g_mix_deact_tl>>
17410 }
17411 \tl_set:Nx\l_mix_settings_tl{\mix_pdflastobj:}
17412 \tl_if_empty:NF\g_mix_usrlabel_tl{
17413     \tl_gset_eq:NN\g_mix_label_tl\g_mix_usrlabel_tl
17414 }
17415 % #1:width, #2:height, #3:depth, #4:content (key-value)
17416 \mix_pdfannot:nnnn{\g_mix_wd_tl}{\g_mix_ht_tl}{\g_mix_dp_tl}{
17417     /Subtype/RichMedia
17418     /F~4
17419     /BS~<</W~0/S/S>>
17420     /Contents~(media~embedded~by~media9~[\g_mix_version_tl~(\g_mix_date_tl)])
17421     /NM~(\g_mix_label_tl)
17422     /AP~<</N~\g_mix_appearance_tl>>
17423     /RichMediaSettings~\l_mix_settings_tl
17424     /RichMediaContent~\l_mix_content_tl
17425 }
17426 \tl_if_empty:NF\g_mix_usrlabel_tl{
17427     \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{\mix_pdflastann:}
17428     \mix_keytoaux_shipout:nn{page@\g_mix_usrlabel_tl}{

```



```

17429         \noexpand\the\g@mix@page@int}
17430     }
17431     \mix_pdfobj:nnn}{dict}{
17432         /S/JavaScript/JS~(
17433         try{
17434             if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17435             if(typeof(annotRM['\g_mix_label_tl'])=='undefined'){
17436                 annotRM['\g_mix_label_tl']=
17437                     this.getAnnotRichMedia(this.pageNum,'\g_mix_label_tl');
17438             }
17439             \str_if_eq:eeF{\g_mix_usrpbtn_tl}{none}{
17440                 if(typeof(ocgBtn\int_use:N\g_mix_rmcnt_int)=='undefined'){
17441                     var~ocgs=this.getOCGs(this.pageNum);
17442                     for(var~i=0;i<ocgs.length;i++){
17443                         if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
17444                             var~ocgBtn\int_use:N\g_mix_rmcnt_int=ocgs[i];
17445                         }
17446                     }
17447                 }
17448                 if(
17449                     !annotRM['\g_mix_label_tl'].activated&&(
17450                         app.viewerType=='Reader' ||
17451                         app.viewerType=='Exchange' ||
17452                         app.viewerType=='Exchange-Pro'
17453                     )&&app.viewerVersion>=9
17454                 ){
17455                     ocgBtn\int_use:N\g_mix_rmcnt_int.state=true;
17456                 }
17457             }
17458         }catch(e){}
17459         this.dirty=false;
17460     )
17461 }
17462 \mix_pdfannot:nnnn{Opt}{Opt}{Opt}{
17463     /Subtype/Widget
17464     /FT/Btn/Ff~65537/F~2
17465     /BS~<</W~0>>
17466     /T~(fd@\g_mix_label_tl)
17467     /AA~<</PO~\mix_pdflastobj:~/PV~\mix_pdflastobj:>>
17468 }
17469 \mix_appendtofields:n{\mix_pdflastann:}
17470 \hbox_overlap_right:n{\box_use:N\l_mix_poster_box}
17471 \str_if_eq:eeTF{\g_mix_usrpbtn_tl}{none}{
17472     \hbox_to_wd:nn{\g_mix_wd_tl}{
17473         \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl\hss
17474     }
17475 }{%insert play button overlay
17476 \mix_insert_btnocg: %create OCG
17477 \cs_gset_eq:Nc\mix_pbtn:NN{g@mix@pbtn@\g_mix_usrpbtn_tl @tl}
17478 \group_begin:
17479 \cs_if_exist:NT\textdir{\textdir TLT}
17480 \sbox\l_mix_pbtn_box{\mix_pbtn:NN\g_mix_wd_tl\g_mix_tt_tl}
17481 \box_move_down:nn{\g_mix_dp_tl}{
17482     \hbox_to_wd:nn{\g_mix_wd_tl}{

```



```

17483         \vbox_to_ht:nn{\g_mix_tt_tl}{
17484             \vss
17485             \ocgbase_oc_bdc:n{\g_mix_btnocg_tl}
17486             \box_use:N\l_mix_pbtn_box
17487             \ocgbase_oc_emc:
17488         }
17489     }
17490 }
17491 \group_end:
17492 }
17493 \int_gincr:N\g_mix_rmcnt_int
17494 }
17495 \mix_endLTR:
17496 \group_end:
17497 }
17498 \tl_set_eq:NN\l_mix_includemedia_tl\includemedia
17499 \tl_set:Nn\includemedia{\mix_uribegin:\l_mix_includemedia_tl}
17500
17501 \RenewDocumentCommand\mediabutton{0{m}}{%#1 options, #2 normal button text
17502     \mix_uridend:
17503     \group_begin:
17504     \mix_beginLTR:
17505     \mode_leave_vertical:
17506     %reset various variables
17507     \tl_gclear:N\g_mix_overbtn_tl
17508     \tl_gclear:N\g_mix_downbtn_tl
17509     \tl_gclear:N\g_mix_btnactions_tl
17510     \tl_gclear:N\g_mix_tooltip_tl
17511     %process options
17512     \bool_gset_eq:NN\g_mix_btndraft_bool\g_mix_pkgdraft_bool
17513     \mix_uribegin: %treat URI characters correctly
17514     \keys_set:nn{media9/mbtndraft}{#1} %detect draft/final on first pass
17515     \bool_if:NF\g_mix_btndraft_bool{\keys_set:nn{media9/mbtn}{#1}}
17516     \mix_uridend:
17517     %normal button appearance
17518     %\hbox_set:Nn\l_mix_poster_box{#2}
17519     \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
17520     \tl_set:Nx\width {\dim_use:N\box_wd:N\l_mix_poster_box}
17521     \tl_set:Nx\height{\dim_use:N\box_ht:N\l_mix_poster_box}
17522     \tl_set:Nx\depth {\dim_use:N\box_dp:N\l_mix_poster_box}
17523     \bool_if:NTF\g_mix_btndraft_bool{\box_use:N\l_mix_poster_box}{
17524         \sbox\l_mix_poster_box{\bool_if:NTF\g_pbs_landscape_bool{\rotatebox{90}{
17525             \box_use:N\l_mix_poster_box}}{\box_use:N\l_mix_poster_box}}
17526         \mix_pdfxform:n{\l_mix_poster_box}
17527         \tl_set:Nx\g_mix_normalbtn_tl{\mix_pdflastxform:}
17528         %insert widget annotation
17529         \mix_pdfannot:nnnn{\width}{\height}{\depth}{
17530             /Subtype/Widget
17531             /T~(mbtn@\int_use:N\g_mix_mbtncnt_int)
17532             \tl_if_empty:NF\g_mix_tooltip_tl{/TU~(\g_mix_tooltip_tl)}
17533             /FT/Btn/Ff~65536
17534             \tl_if_empty:NTF\g_mix_downbtn_tl{/H/I}{/H/P}
17535             /AP~<<
17536             /N~\g_mix_normalbtn_tl

```





```

17537      \tl_if_empty:NF\g_mix_overbtn_tl{/R~\g_mix_overbtn_tl}
17538      \tl_if_empty:NF\g_mix_downbtn_tl{/D~\g_mix_downbtn_tl}
17539      >>
17540      /MK~<<
17541      /TP~1~/IF~<</S/A/FB~true/A~[0.0~0.0]>>
17542      /I~\g_mix_normalbtn_tl
17543      \tl_if_empty:NF\g_mix_overbtn_tl{/RI~\g_mix_overbtn_tl}
17544      \tl_if_empty:NF\g_mix_downbtn_tl{/IX~\g_mix_downbtn_tl}
17545      >>
17546      /A~<<
17547      /S/JavaScript/JS~(app.focusRect=false;)
17548      %sequence of actions to perform
17549      \tl_if_empty:NF\g_mix_btnactions_tl{/Next~[\g_mix_btnactions_tl]}
17550      >>
17551      }
17552      \mix_appendtofields:n{\mix_pdflastann:}
17553      \hbox_to_wd:nn{\width}{
17554        \vrule~width~\c_zero_dim~height~\height~depth~\depth\hss
17555      }
17556      \int_gincr:N\g_mix_mbtncnt_int
17557      }
17558      \mix_endLTR:
17559      \group_end:
17560      }
17561      \tl_set_eq:NN\l_mix_mediabutton_tl\mediabutton
17562      \tl_set:Nn\mediabutton{\mix_uribegin:\l_mix_mediabutton_tl}
17563

```

## 115 File memoir-xetex-bidi.def

```

17564 \ProvidesFile{memoir-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for memoir class for X
17565 \renewcommand{\keepthetitle}{%
17566   \@bsmtitleempty
17567   \global\let\thanks\relax
17568   \global\let\LTRthanks\relax
17569   \global\let\RTLthanks\relax
17570   \global\let\and\relax
17571   \global\let\andnext\relax
17572   \global\let\@thanks\@empty
17573   \global\let\@title\@empty
17574   \global\let\@author\@empty
17575   \global\let\@date\@empty}
17576 \renewcommand{\maketitle}{\par
17577   \begingroup
17578     \@bsmarkseries
17579     \def\@makefnmark{\@textsuperscript{%
17580       \normalfont\@bsthanksheadpre \tamark \@bsthanksheadpost}}}%
17581     \long\def\@makefntext##1{\makethanksmark ##1}
17582     \if@twocolumn
17583       \ifnum \col@number=\@ne
17584         \@maketitle
17585       \else
17586         \twocolumn[\@maketitle]%
17587     \fi

```



```

17588 \else
17589 \ifdim\pagetotal>\z@
17590 \newpage
17591 \fi
17592 \global\@topnum\z@
17593 \@maketitle
17594 \fi
17595 \thispagestyle{title}\@thanks
17596 \endgroup
17597 \@bscontmark % \setcounter{footnote}{0}%
17598 }
17599 \renewcommand*{\memRTLleftskip}{\if@RTL\rightskip\else\leftskip\fi}
17600 \renewcommand*{\memRTLrightskip}{\if@RTL\leftskip\else\rightskip\fi}
17601 \renewcommand*{\memRTLvleftskip}{\if@RTL\vrightskip\else\vleftskip\fi}
17602 \renewcommand*{\memRTLvrightskip}{\if@RTL\vleftskip\else\vrightskip\fi}
17603 \renewcommand*{\memRTLraggedright}{\if@RTL\raggedleft\else\raggedright\fi}
17604 \renewcommand*{\memRTLraggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
17605 \renewcommand*{\thesection}{\thechapter\@SepMark\@arabic\c@section}
17606 \renewcommand*{\thesubsection}{%
17607 \thesection\@SepMark\@arabic\c@subsection}
17608 \renewcommand*{\thesubsubsection}{%
17609 \thesubsection\@SepMark\@arabic\c@subsubsection}
17610 \renewcommand*{\theparagraph}{%
17611 \thesubsubsection\@SepMark\@arabic\c@paragraph}
17612 \renewcommand*{\thesubparagraph}{%
17613 \theparagraph\@SepMark\@arabic\c@subparagraph}
17614 \renewcommand{\setthesection}{\thechapter\@SepMark\Alph{section}}
17615 \renewcommand{\theequation}{%
17616 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
17617 \renewcommand{\thefigure}{\thechapter\@SepMark\@arabic\c@figure}
17618 \renewcommand{\thetable}{\thechapter\@SepMark\@arabic\c@table}
17619 \ifartopt
17620 \chapterstyle{article}
17621 \counterwithout{figure}{chapter}
17622 \counterwithout{table}{chapter}
17623 \counterwithout{footnote}{chapter}
17624 \counterwithout{equation}{chapter}
17625 \renewcommand{\chaptername}{}
17626 \renewcommand{\maketitlehookb}{%
17627 \vskip -1.5\topsep\vskip -1.5\partopsep}
17628 \renewcommand{\maketitlehookc}{%
17629 \vskip -1.5\topsep\vskip -1.5\partopsep}
17630 \fi
17631 \long\def\@makecaption#1#2{\let\@memtempa\relax
17632 \ifdim\prevdepth>-99\p@ \vskip\abovecaptionskip
17633 \else \def\@memtempa{\vbox to\topskip{}}\fi
17634 \let\@contfnote\footnote \renewcommand{\footnote}[2]{}{}
17635 \let\@contfmark\footnotemark \renewcommand{\footnotemark}[1]{}{}
17636 \sbox\@tempboxa{\@contfnote #1\@contdelim \@conttfont #2\@contfinal}
17637 \let\footnote\@contfnote
17638 \let\footnotemark\@contfmark
17639 \ifdim\wd\@tempboxa<\linewidth \centering \fi
17640 \if@contcw
17641 \centering

```



```

17642 \parbox{\@contcwidth}{%
17643 \ifdim\wd\@tempboxa<\@contcwidth \centering \fi
17644 \fi
17645 \ifdim\wd\@tempboxa<\linewidth
17646 \@contpre
17647 {\@contnfont #1\@contdelim}\@memtempa
17648 {\@contcshortstyle \@conttfont #2\@contfinal\par}
17649 \else
17650 \if@conthang
17651 \sbox\@tempboxa{\@contnfont #1\@contdelim}
17652 \@contpre%
17653 {\@contcstyle\hangindent=\wd\@tempboxa
17654 \noindent\box\@tempboxa\@memtempa \@conttfont #2\@contfinal\par}
17655 \else
17656 \if@contindent
17657 \@contpre%
17658 {\@contnfont #1\@contdelim}\@memtempa
17659 {\@contcstyle\hangindent=\@contindw
17660 \hangafter=\@ne\@conttfont #2\@contfinal\par}% <- v1.4
17661 \else
17662 \@contpre%
17663 {\@contnfont #1\@contdelim}\@memtempa
17664 {\@contcstyle \@conttfont #2\@contfinal\par}
17665 \fi
17666 \fi
17667 \fi
17668 \@contpost
17669 \if@contcw
17670 \par
17671 } % end of the \parbox
17672 \fi
17673 \vskip\belowcaptionskip}
17674 \ifpackageloaded{caption}{%
17675 \AtBeginPackage{caption}{
17676 \ClassWarningNoLine{memoir}{%
17677 You are using the caption package with the memoir \MessageBreak
17678 class. This may cause unexpected or inconsistent \MessageBreak
17679 results if you use any of memoir's captioning facilities}
17680
17681 \long\def\makecaption##1##2{%
17682 \vskip\abovecaptionskip
17683 \sbox\@tempboxa{\if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi}%
17684 \ifdim \wd\@tempboxa >\hsize
17685 \if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi\par
17686 \else
17687 \global \@minipagefalse
17688 \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
17689 \fi
17690 \vskip\belowcaptionskip}
17691
17692 \def\caption{%
17693 \ifx\@cuptype\@undefined
17694 \@latex@error{\noexpand\caption outside float}\@ehd
17695 \expandafter\@gobble

```



```

17696 \else
17697 \refstepcounter\@capttype
17698 \expandafter\@firstofone
17699 \fi
17700 {\@dblarg{\@caption\@capttype}}}%
17701 }
17702
17703 \long\def\@caption##1[##2]##3{%
17704 \par
17705 \addcontentsline{\csname ext@##1\endcsname}{##1}%
17706 {\protect\numberline{\csname the##1\endcsname}{\ignorespaces ##2}}}%
17707 \begingroup
17708 \@parboxrestore
17709 \if@minipage
17710 \@setminipage
17711 \fi
17712 \normalsize
17713 \@makecaption{\csname fnum@##1\endcsname}{\ignorespaces ##3}\par
17714 \endgroup}
17715 }{}
17716 \renewenvironment{thebibliography}[1]{%
17717 \bibsection
17718 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
17719 \bidi@thebibliography@font@hook%
17720 \begin{bibitemlist}{#1}}{\end{bibitemlist}\postbibhook}

```

## 116 File midfloat-xetex-bidi.def

```

17721 \ProvidesFile{midfloat-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for midfloat package]
17722 \def\RTL@outputdblcol{%
17723 \if@firstcolumn
17724 \global \@firstcolumnfalse
17725 \global\setbox\@leftcolumn\copy\@outputbox
17726 \splitmaxdepth\maxdimen
17727 \vbadness\maxdimen
17728 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
17729 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
17730 \toks@\expandafter{\topmark}%
17731 \xdef\@firstcoltopmark{\the\toks@}%
17732 \toks@\expandafter{\splitfirstmark}%
17733 \xdef\@firstcolfirstmark{\the\toks@}%
17734 \ifx\@firstcolfirstmark\@empty
17735 \global\let\@setmarks\relax
17736 \else
17737 \gdef\@setmarks{%
17738 \let\firstmark\@firstcolfirstmark
17739 \let\topmark\@firstcoltopmark}%
17740 \fi
17741 \global\c@colht\@colht\global\c@addvipersep\z@
17742 \ifnum\j@o@sk>0
17743 \remove@strip\j@o@sar
17744 \global\@colht\the\j@o@pr
17745 \ifdim\right@cor>\z@
17746 \global\advance\@colht by\right@cor

```



```

17747         \fi
17748         \global\advance\@colht by\cor@height
17749         \global\cor@height=0pt
17750     \fi
17751     \global \setbox\@rightcolumn \vbox{%
17752 \else
17753     \ifdim\c@colht>\@colht
17754         \@tempdima\@colht
17755         \ifdim\@colht>\z@
17756             \global\setbox\@rightcolumn \vbox{%
17757                 \unvbox\@rightcolumn
17758                 \vbox to\@tempdima%
17759                     \vskip\c@addvipersep\unvbox\@outputbox}%
17760             \vskip\stripsep
17761             \vrule height\the\juo@ht width 0pt depth 0pt
17762             \vskip\stripsep
17763             }%
17764             \global\c@addvipersep\m@addvipersep
17765         \else
17766             \global\setbox\@rightcolumn \vbox{%
17767                 \unvbox\@rightcolumn
17768                 \vrule height\the\juo@ht width 0pt depth 0pt
17769                 \vskip\stripsep
17770                 }%
17771     \fi
17772     \ifnum\juo@sk>0
17773         \remove@strip\juo@sar
17774         \global\@colht\the\juo@pr
17775         \global\advance\@colht by -\ht\@rightcolumn
17776         \global\advance\@colht by\cor@height
17777         \global\cor@height=0pt
17778     \else
17779         \global\advance\c@colht by-\ht\@rightcolumn
17780         \global\@colht\c@colht
17781     \fi
17782 \else
17783 \global\@firstcolumntrue
17784 \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
17785     \unvbox\@rightcolumn
17786     \vskip\c@addvipersep
17787     \unvbox\@outputbox
17788     }%
17789 \setbox\@outputbox \vbox {%
17790     \hb@xt@\textwidth {%
17791         \hskip \columnwidth
17792         \hfil
17793         \vrule \@width\columnseprule
17794         \hfil
17795         \hb@xt@\columnwidth {%
17796             \bidi@firstcolumn@status@write%
17797             \box\@leftcolumn \hss}%
17798         \hskip-\textwidth
17799         \hb@xt@\columnwidth {%
17800             \bidi@lastcolumn@status@write%

```



```

17801             \box\@outputbox \hss}%
17802             \hskip\columnwidth
17803             \hskip\columnsep}%
17804             }%
17805     \@combinedblfloats
17806     \@setmarks
17807     \@outputpage
17808     \begingroup
17809       \@dblfloatplacement
17810       \@startdblcolumn
17811       \@whilesw\if@fcolmade \fi
17812       {\@outputpage
17813        \@startdblcolumn}%
17814     \endgroup
17815     \global\jua@sk=0\global\jua@sar={}
17816     \global\cor@height\z@\global\c@advipersep\z@
17817     \fi
17818 \fi
17819 }
17820
17821
17822 \def\LTR@outputdblcol{%
17823   \if@firstcolumn
17824     \global \@firstcolumnfalse
17825     \global\setbox\@leftcolumn\copy\@outputbox
17826     \splitmaxdepth\maxdimen
17827     \vbadness\maxdimen
17828     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
17829     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
17830     \toks@\expandafter{\topmark}%
17831     \xdef\@firstcoltopmark{\the\toks@}%
17832     \toks@\expandafter{\splitfirstmark}%
17833     \xdef\@firstcolfirstmark{\the\toks@}%
17834     \ifx\@firstcolfirstmark\@empty
17835       \global\let\@setmarks\relax
17836     \else
17837       \gdef\@setmarks{%
17838         \let\firstmark\@firstcolfirstmark
17839         \let\topmark\@firstcoltopmark}%
17840     \fi
17841     \global\c@colht\@colht\global\c@advipersep\z@
17842     \ifnum\jua@sk>0
17843       \remove@strip\jua@sar
17844       \global\@colht\the\jua@pr
17845       \ifdim\right@cor>\z@
17846         \global\advance\@colht by\right@cor
17847       \fi
17848       \global\advance\@colht by\cor@height
17849       \global\cor@height=0pt
17850     \fi
17851     \global \setbox\@rightcolumn \vbox{}%
17852   \else
17853     \ifdim\c@colht>\@colht
17854       \@tempdima\@colht

```



```

17855         \ifdim\@colht>\z@
17856         \global\setbox\@rightcolumn \vbox{%
17857             \unvbox\@rightcolumn
17858             \vbox to\@tempdima{%
17859                 \vskip\c@addvipersep\unvbox\@outputbox}%
17860             \vskip\stripsep
17861             \vrule height\the\jua@ht width Opt depth Opt
17862             \vskip\stripsep
17863             }%
17864         \global\c@addvipersep\m@addvipersep
17865     \else
17866     \global\setbox\@rightcolumn \vbox{%
17867         \unvbox\@rightcolumn
17868         \vrule height\the\jua@ht width Opt depth Opt
17869         \vskip\stripsep
17870     }%
17871 \fi
17872 \ifnum\jua@sk>0
17873     \remove@strip\jua@sar
17874     \global\@colht\the\jua@pr
17875     \global\advance\@colht by -\ht\@rightcolumn
17876     \global\advance\@colht by \cor@height
17877     \global\cor@height=0pt
17878 \else
17879     \global\advance\c@colht by-\ht\@rightcolumn
17880     \global\@colht\c@colht
17881 \fi
17882 \else
17883     \global\@firstcolumntrue
17884     \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
17885         \unvbox\@rightcolumn
17886         \vskip\c@addvipersep
17887         \unvbox\@outputbox
17888     }%
17889     \setbox\@outputbox \vbox {%
17890         \hb@xt@\textwidth {%
17891             \hb@xt@\columnwidth {%
17892                 \bidi@firstcolumn@status@write%
17893                 \box\@leftcolumn \hss}%
17894             \hfil
17895             \vrule \@width\columnseprule
17896             \hfil
17897             \hb@xt@\columnwidth {%
17898                 \bidi@lastcolumn@status@write%
17899                 \box\@outputbox \hss}%
17900             }%
17901         }%
17902     \@combinedblfloats
17903     \@setmarks
17904     \@outputpage
17905     \begingroup
17906         \@dblfloatplacement
17907         \@startdblcolumn
17908     \@whilesw\if@fcolmade \fi

```



```

17909      {\@outputpage
17910       \startdblcolumn}%
17911    \endgroup
17912    \global\jua@sk=0\global\jua@sar={}
17913    \global\cor@height\z@\global\c@advipersep\z@
17914    \fi
17915  \fi
17916 }
17917
17918
17919 \def\@strip[#1/#2]{\global\@tempdima=#1\global\@tempdimb=#2%
17920  \global \setbox\@viper\vbox\bgroup\if@RTLmain\moveleft\dimexpr(\columnwidth+\columnsep)\fi
17921    \hsize\textwidth
17922    \@parboxrestore
17923    \col@number \@ne
17924    \vrule height\topskip width0pt depth0pt
17925 }
17926
17927 \def\endstrip{%
17928   \egroup\egroup
17929   \if@firstcolumn
17930     \ifdim\pagetotal>\z@
17931       \vskip\stripsep
17932       \global\ht@strip\pagegoal
17933       \global\advance\ht@strip by-\pagetotal
17934       \global\advance\ht@strip by-\stripsep
17935       \global\advance\ht@strip by-\ht\@viper
17936       \global\advance\ht@strip by-\stripsep
17937       \global\jua@ht=\ht\@viper
17938     \else
17939       \global\ht@strip\z@
17940     \fi
17941     \ifdim\ht@strip>\z@
17942       \unvbox\@viper
17943       \vskip\stripsep
17944       \add@strip{\the\pagetotal}{\the\jua@ht}{\the\@tempdima}{\the\@tempdimb}%
17945       \global\advance\jua@sk by1
17946     \else
17947       \@latex@error{Strip needs more place!}\@ehc
17948       \if@vihproof
17949         \framebox[\columnwidth]{??? Strip ???}%
17950       \fi
17951     \fi
17952   \else
17953     \@latex@error{Strip is used only on left column!}\@ehc
17954     \if@vihproof
17955       \framebox[\columnwidth]{??? Strip ???}%
17956     \fi
17957   \fi
17958 }

```

## 117 File minitoc-xetex-bidi.def

```

17959 \ProvidesFile{minitoc-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for minitoc package f

```





```

17960 \def\@undottedtocline#1#2#3#4#5{%
17961   \ifnum #1>\c@tocdepth\relax \else
17962     \vskip \z@ plus.2\p@
17963     {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
17964     \parindent #2\relax\@afterindenttrue
17965     \interlinepenalty\@M
17966     \leavevmode
17967     \@tempdima #3\relax \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \hbox{}%
17968     \hskip -\if@RTL\rightskip\else\leftskip\fi
17969     #4\nobreak\hfill \nobreak
17970     \null\par}%
17971   \fi}
17972 \def\@Undottedtocline#1#2#3#4#5{%
17973   \ifnum #1>\c@tocdepth\relax \else
17974     \vskip \z@ \@plus.2\p@
17975     {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocrma
17976     \parindent #2\relax\@afterindenttrue
17977     \interlinepenalty\@M
17978     \leavevmode
17979     \@tempdima #3\relax
17980     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
17981     {\coffee\font #4}\nobreak \nobreak\null
17982     \par}%
17983   \fi}
17984 \def\@Undottedtoclinep#1#2#3#4#5{%
17985   \ifnum #1>\c@tocdepth\relax \else
17986     \vskip \z@ \@plus.2\p@
17987     {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocrma
17988     \parindent #2\relax\@afterindenttrue
17989     \interlinepenalty\@M
17990     \leavevmode
17991     \@tempdima #3\relax
17992     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
17993     {#4}\nobreak \hfill \nobreak\null
17994     \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
17995     \par}%
17996   \fi}

```

## 118 File multicol-xetex-bidi.def

```

17997 \ProvidesFile{multicol-xetex-bidi.def}[2022/07/10 v1.4 bidi adaptations for multicol package]
17998 \def\page@sofar{%
17999   \process@cols\mult@rightbox
18000   {\ifvoid\count@
18001     \setbox\count@\hbox to\hsize}%
18002   \else
18003     \wd\count@\hsize
18004     \fi}%
18005   \count@\col@number \advance\count@\m@ne
18006   \mult@info\z@
18007   {Column spec: \the\full@width\space = indent
18008     + columns + sep =\MessageBreak
18009     \the\multicol@leftmargin\space
18010     + \the\col@number\space

```



```

18011      x \the\hsize\space
18012      + \the\count@\space
18013      x \the\columnsep
18014      }%
18015 \ifvmode\else\errmessage{Multicol Error}\fi
18016 \nointerlineskip
18017 \setbox\z@\hbox{\global\dimen\tw@\dp\z@
18018 \moveright\multicol@leftmargin
18019 \hbox to\full@width{%
18020 \bidi@multicol@align@columns
18021 \rlap{\phantom p}%
18022 }%
18023 \prevdepth\z@
18024 \kern-\dimen\tw@
18025 \ifdim\dimen\tw@ > \mc@gridwarn
18026 \PackageWarning{multicol}%
18027 {Very deep columns!\MessageBreak
18028 Grid alignment might be broken}%
18029 \fi
18030 }
18031 \def\LTR@column@boxes{%
18032 \process@cols\mult@firstbox{%
18033 \ifdim\dp\count@>\dimen\tw@
18034 \global\dimen\tw@\dp\count@ \fi
18035 \mc@col@status@write
18036 \box\count@
18037 \hss{\columnseprulecolor\vrule
18038 \@width\columnseprule}\hss}%
18039 \ifdim\dp\mult@rightbox>\dimen\tw@
18040 \global\dimen\tw@\dp\mult@rightbox \fi
18041 \mc@lastcol@status@write
18042 \box\mult@rightbox
18043 }
18044
18045 \def\RTL@column@boxes{%
18046 \process@cols\mult@firstbox{%
18047 \hskip\hsize
18048 \hss{\columnseprulecolor\vrule
18049 \@width\columnseprule}\hss
18050 }%
18051 \hskip\hsize
18052 \process@cols\mult@firstbox{%
18053 \ifdim\dp\count@>\dimen\tw@
18054 \global\dimen\tw@\dp\count@ \fi
18055 \hskip-\hsize
18056 \mc@col@status@write
18057 \box\count@
18058 \hskip-\hsize
18059 \hskip-\columnsep
18060 }%
18061 \ifdim\dp\mult@rightbox>\dimen\tw@
18062 \global\dimen\tw@\dp\mult@rightbox \fi
18063 \hskip-\hsize
18064 \mc@lastcol@status@write

```



```

18065     \box\mult@rightbox
18066     \hskip-\hsize
18067     \hskip\full@width
18068 }
18069
18070 \newcommand\RTLmulticolcolumns
18071     {\let\bidimulticolalign@columns
18072      \RTL@column@boxes}
18073 \newcommand\LTRmulticolcolumns
18074     {\let\bidimulticolalign@columns
18075      \LTR@column@boxes}
18076 \newcommand\bidimulticolalign@columns
18077     {\ifRTLmain\RTL@column@boxes\else\LTR@column@boxes\fi}
18078 \bidimulticol@AtEndPreamble{%
18079     \if@bidi@csdef{footinsv}{%
18080         \def\footnoterule{\kern-3\p@
18081             \hrule \@width \textwidth \kern 2.6\p@}%
18082     }{%
18083 }
18084 \def\multicols#1{\col@number#1\relax
18085     \ifnum\col@number<\tw@
18086         \PackageWarning{multicol}%
18087             {Using '\number\col@number'
18088              columns doesn't seem a good idea.^~J
18089              I therefore use two columns instead}%
18090         \col@number\tw@ \fi
18091     \ifnum\col@number>20
18092         \PackageError{multicol}%
18093             {Too many columns}%
18094         {Current implementation doesn't
18095          support more than 20 columns.%
18096          \MessageBreak
18097          I therefore use 20 columns instead}%
18098         \col@number20 \fi
18099     \ifx\@footnotetext\mult@footnotetext
18100     \else
18101         \let\orig@footnotetext\@footnotetext
18102         \let\@footnotetext\mult@footnotetext
18103     \fi
18104     \ifx\@LTRfootnotetext\mult@LTRfootnotetext
18105     \else
18106         \let\orig@LTRfootnotetext\@LTRfootnotetext
18107         \let\@LTRfootnotetext\mult@LTRfootnotetext
18108     \fi
18109     \ifx\@RTLfootnotetext\mult@RTLfootnotetext
18110     \else
18111         \let\orig@RTLfootnotetext\@RTLfootnotetext
18112         \let\@RTLfootnotetext\mult@RTLfootnotetext
18113     \fi
18114     \ifnextchar[\mult@cols{\mult@cols[]}]
18115 \long\def\mult@footnotetext#1{\begingroup
18116     \hsize\textwidth
18117     \columnwidth\textwidth
18118     \orig@footnotetext{#1}\endgroup}

```



```

18119 \long\def\mult@LTRfootnotetext#1{\begingroup
18120     \hsize\textwidth
18121     \columnwidth\textwidth
18122     \orig@LTRfootnotetext{#1}\endgroup}
18123 \long\def\mult@RTLfootnotetext#1{\begingroup
18124     \hsize\textwidth
18125     \columnwidth\textwidth
18126     \orig@RTLfootnotetext{#1}\endgroup}
18127 \def\rightright@footnoterule{%
18128     \kern-3\p@
18129     \hbox to \textwidth{\hskip \dimexpr\textwidth-.4\columnwidth\relax \hrulefill }
18130     \kern2.6\p@}
18131 \def\textwidth@footnoterule{\kern-3\p@
18132     \hrule \@width \textwidth \kern 2.6\p@}
18133 \def\bidileave@mult@copyins{%
18134     \advance\dimen@-\skip\@bidi@copyins@
18135     \advance\dimen@-\ht\@bidi@copyins@
18136 }
18137
18138 \bidi@AtEndPreamble{%
18139     \if@bidi@csundef{footinsv0l}{%
18140         \bidi@patchcmd{\multi@column@out}{%
18141             \ifvbox \@kludgeins
18142         }{%
18143             \ifvoid\@bidi@copyins@ \else
18144                 \bidileave@mult@copyins
18145             \fi
18146             \ifvbox \@kludgeins
18147         }{}{}%
18148     }{}%
18149 }
18150
18151

```

## 119 File multienum-xetex-bidi.def

```

18152 \ProvidesFile{multienum-xetex-bidi.def}[2011/04/16 v0.1 bidi adaptations for multienum packa
18153 \renewcommand{\itemx}[1]{\parbox[t]{%
18154     {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18155     \parbox[t]{\remainx}{\bidi@raggedright #1}\par}%\smallskip
18156 \renewcommand{\itemxx}[2]{\parbox[t]{%
18157     {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18158     \parbox[t]{.5\remainxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
18159     {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18160     \parbox[t]{0.5\remainxx}{\bidi@raggedright #2}\smallskip}
18161 \renewcommand{\itemxxx}[3]{\parbox[t]{%
18162     {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18163     \parbox[t]{.3333\remainxxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
18164     {\labelwidth}{\hfill {\labelname}}\hskip\labelsep%
18165     \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\hfill\parbox[t]{%
18166     {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18167     \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #3}\par}%\smallskip
18168 \renewcommand{\itemxxxx}[4]{\parbox[t]{%
18169     {\labelwidth}{\hfill{\labelname}}\hskip\labelsep

```



```

18170 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
18171 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18172 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
18173 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18174 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\hfill%
18175 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18176 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #4}\smallskip}
18177 \renewcommand{\itemxxxxx}[5]{\parbox[t]{%
18178 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18179 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #1}\hfill%
18180 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18181 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #2}\hfill%
18182 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18183 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #3}\hfill%
18184 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18185 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #4}\hfill%
18186 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18187 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #5}\smallskip}
18188 \renewcommand{\itemxox}[2]{\parbox[t]{%
18189 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18190 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
18191 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18192 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\smallskip}
18193 \renewcommand{\itemxoxo}[2]{\parbox[t]{%
18194 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18195 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #1}\hfill%
18196 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18197 \parbox[t]{\remainxox}{\bidi@raggedright #2}\smallskip}
18198 \renewcommand{\itemxoxx}[3]{\parbox[t]{%
18199 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18200 \parbox[t]{\remainxoxx}{\bidi@raggedright #1}\hfill%
18201 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18202 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
18203 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18204 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
18205 \renewcommand{\itemxoxo}[3]{\parbox[t]{%
18206 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18207 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
18208 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18209 \parbox[t]{\remainxoxx}{\bidi@raggedright #2}\hfill%
18210 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18211 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
18212 \renewcommand{\itemxxxo}[3]{\parbox[t]{%
18213 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18214 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
18215 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18216 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #2}\hfill%
18217 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18218 \parbox[t]{\remainxoxx}{\bidi@raggedright #3}\smallskip}

```

## 120 File natbib-xetex-bidi.def

```

18219 \ProvidesFile{natbib-xetex-bidi.def}[2017/06/09 v0.2 bidi adaptations for natbib package for
18220 \renewenvironment{thebibliography}[1]{%

```



```

18221 \bibsection
18222 \parindent\z@
18223 \bibpreamble
18224 \bibfont
18225 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
18226 \bidi@@thebibliography@font@hook%
18227 \list{\@biblabel{\the\c@NAT@ctr}}{\@bibsetup{#1}\global\c@NAT@ctr\z@}%
18228 \ifNAT@openbib
18229 \renewcommand\newblock{\par}%
18230 \else
18231 \renewcommand\newblock{\hskip .11em \@plus.33em \@minus.07em}%
18232 \fi
18233 \sloppy\clubpenalty4000\widowpenalty4000
18234 \sfcode\.\@m
18235 \let\NAT@bibitem@first@sw\@firstoftwo
18236 \let\citeN\cite \let\shortcite\cite
18237 \let\citeasnoun\cite
18238 }{%
18239 \bibitem@fin
18240 \bibpostamble
18241 \def\@noitemerr{%
18242 \PackageWarning{natbib}{Empty `thebibliography' environment}%
18243 }%
18244 \endlist
18245 \bibcleanup
18246 }%

```

## 121 File newfloat-xetex-bidi.def

```

18247 \ProvidesFile{newfloat-xetex-bidi.def}[2013/05/22 v0.1 bidi adaptations for newfloat package]
18248 \renewcommand*\newfloat@setwithin[2]{%
18249 \ifcsname c@chapter\endcsname
18250 \@removefromreset{#1}{chapter}%
18251 \fi
18252 \@removefromreset{#1}{section}%
18253 \edef\@tempa{#2}%
18254 \ifx\@tempa\@empty
18255 \def\@tempa{none}%
18256 \fi
18257 \def\@tempb{none}%
18258 \ifx\@tempa\@tempb
18259 \ifcsname c@chapter\endcsname
18260 \@chapterlistsgap@off{#1}%
18261 \fi
18262 \newfloat@@setwithin{#1}{-}{-}%
18263 \else
18264 \def\@tempb{chapter}%
18265 \ifx\@tempa\@tempb
18266 \@addtoreset{#1}{chapter}%
18267 \@chapterlistsgap@on{#1}%
18268 \newfloat@@setwithin{#1}{\ifnum\c@chapter>\z@ \thechapter\@SepMark\fi}{\theHchapter\@S}
18269 \else
18270 \def\@tempb{section}%
18271 \ifx\@tempa\@tempb

```



```

18272      \@addtoreset{#1}{section}%
18273      \ifcsname c@chapter\endcsname
18274      \@addtoreset{#1}{chapter}%
18275      \@chapterlistsgap@on{#1}%
18276      \newfloat@@setwithin{#1}{\thesection\@SepMark}{\theHsection\@SepMark}%
18277      \else
18278      \newfloat@@setwithin{#1}{\ifnum\c@section>\z@ \thesection\@SepMark\fi}{\theHsection\@SepMark}%
18279      \fi
18280      \else
18281      \newfloat@Error{Invalid value `#2' for option `within'}%
18282      \fi
18283      \fi
18284      \fi}

```

## 122 File `nicematrix-xetex-bidi.def`

```

18285 \ProvidesFile{nicematrix-xetex-bidi.def}[2022/07/18 v0.2 bidi adaptations for nicematrix package]
18286 \ExplSyntaxOn
18287 \bidi@patchcmd{\__nicematrix_array:n}{\@tabarray}{\%
18288   \bool_if:NF \l__nicematrix_NiceTabular_bool \@RTLtabfalse
18289   \@tabarray
18290 }{}{}
18291 \ExplSyntaxOff
18292

```

## 123 File `ntheorem-xetex-bidi.def`

```

18293 \ProvidesFile{ntheorem-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem package]
18294 \gdef\@thm#1#2#3{%
18295   \if@thmmarks
18296     \stepcounter{end\InTheoType ctr}%
18297   \fi
18298   \renewcommand{\InTheoType}{#1}%
18299   \if@thmmarks
18300     \stepcounter{curr#1ctr}%
18301     \setcounter{end#1ctr}{0}%
18302   \fi
18303   \refstepcounter{#2}%
18304   \theorem@prework
18305   \thm@topsepadd \theorem@postskipamount % cf. latex.ltx: \@trivlist
18306   \ifvmode \advance\thm@topsepadd\partopsep\fi
18307   \trivlist
18308   \@topsep \theorem@preskipamount
18309   \@topsepadd \thm@topsepadd % used by \@endparenv
18310   \advance\linewidth -\theorem@indent
18311   \advance\@totalleftmargin \theorem@indent
18312   \if@RTL\parshape \@ne 0pt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
18313   \ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```

## 124 File `ntheorem-hyper-xetex-bidi.def`

```

18314 \ProvidesFile{ntheorem-hyper-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem-hyper package]
18315 \gdef\@thm#1#2#3{%
18316   \if@thmmarks

```



```

18317 \stepcounter{end\InTheoType ctr}%
18318 \fi
18319 \renewcommand{\InTheoType}{#1}%
18320 \if@thmmarks
18321 \stepcounter{curr#1ctr}%
18322 \setcounter{end#1ctr}{0}%
18323 \fi
18324 \refstepcounter{#2}%
18325 \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
18326 \ifvmode \advance\thm@topsepadd\partopsep\fi
18327 \trivlist
18328 \@topsep \theorempreskipamount
18329 \@topsepadd \thm@topsepadd % used by \@endparenv
18330 \advance\linewidth -\theorem@indent
18331 \advance\@totalleftmargin \theorem@indent
18332 \if@RTL\parshape \@ne Opt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
18333 \ifnextchar [{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}]

```

## 125 File overpic-xetex-bidi.def

```

18334 \ProvidesFile{overpic-xetex-bidi.def}[2015/12/07 v0.1 bidi adaptations for overpic package f
18335 \renewenvironment{overpic}[2][\fi]{
18336 \sbox{z@}{\includegraphics[#1]{#2}}%
18337 \settodepth{\@tempcnta}{\usebox{z@}}%
18338 \settoheight{\@tempcntb}{\usebox{z@}}%
18339 \advance\@tempcntb\@tempcnta%
18340 \settowidth{\@tempcnta}{\usebox{z@}}%
18341 \setlength{\@tempdima}{\unitlength}%
18342 \count@=\z@\Gin@gridfalse\setkeys{Gin}{#1}%
18343 %
18344 \OVP@calc%
18345 %
18346 \begin{picture}(\@tempcnta,\@tempcntb)%
18347 \if@RTL\else\put(0,0){\makebox(0,0)[bl]{\usebox{z@}}}%
18348 \ifGin@grid%
18349 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
18350 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
18351 \fi\fi%
18352 % reset the graphics parameter
18353 \let\Gin@outer@scalex\relax
18354 \let\Gin@outer@scaley\relax
18355 \let\Gin@angle\relax
18356 \let\Gin@ewidth\Gin@exclamation
18357 \let\Gin@eheight\Gin@ewidth
18358 \def\Gin@scalex{1}
18359 \let\Gin@scaley\Gin@exclamation
18360 }{\fi
18361 \if@RTL\ifGin@grid%
18362 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
18363 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
18364 \fi%
18365 \put(0,0){\makebox(0,0)[bl]{\usebox{z@}}}\fi%
18366 \end{picture}%
18367 }%

```





## 126 File pdfbase-xetex-bidi.def

```
18368 \ProvidesFile{pdfbase-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for pdfbase package f
18369 \ExplSyntaxOn
18370 \cs_set_eq:NN\pbs_outputpage_orig:\@outputpage
18371 \cs_set_nopar:Npn\@outputpage{
18372   \int_gincr:N\g_pbs_page_int
18373   \box_if_vertical:cTF{\@outputbox}{
18374     \bool_set_true:N\l_pbs_is_vertical_bool
18375   }{
18376     \bool_set_false:N\l_pbs_is_vertical_bool
18377   }
18378   \hbox_set:Nn\@outputbox{
18379     %begin of page
18380     \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_bop_seq{##1}}
18381     \box_use_drop:N\@outputbox
18382     %end of page
18383     \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_eop_seq{##1}}
18384   }
18385   \bool_if:NT\l_pbs_is_vertical_bool{
18386     \vbox_set:Nn\@outputbox{\box_use_drop:N\@outputbox}
18387   }
18388   \pbs_outputpage_orig:
18389 }
18390 \ExplSyntaxOff
```

## 127 File pdfscape-xetex-bidi.def

```
18391 \ProvidesFile{pdfscape-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for pdfscape packa
18392 \bidi@patchcmd{\landscape}{\PLS@Rotate{90}}{%
18393   \if@RTL
18394     \PLS@Rotate{-90}%
18395   \else
18396     \PLS@Rotate{90}%
18397   \fi
18398 }{}{}
```

## 128 File pdfpages-xetex-bidi.def

```
18399 \ProvidesFile{pdfpages-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for pdfpages package
18400 \renewcommand*{\includepdf}[2] [] {%
18401   \begingroup
18402   \@RTLfalse
18403   \let\AM@threadname\relax
18404   \AM@split@options{pdfpages}{#1}%
18405   \edef\AM@temp{\{pdfpages\}\the\@temptokena}%
18406   \expandafter\setkeys\AM@temp
18407   \ifthenelse{\boolean{AM@pkg@draft} \and \boolean{AM@survey}}{%
18408     \let\AM@currentdocname\relax
18409     \renewcommand\includegraphics[2] [] {Survey in draft-mode}%
18410     \def\AM@pagecount{0}%
18411   }{%
18412     \AM@findfile{#2}%
18413     \if\AM@threadname\relax
```



```

18414     \def\AM@threadname{\AM@currentdocname}%
18415     \fi
18416   }%
18417   \ifAM@survey
18418     \def\AM@pagestemp{}%
18419     \@tempcnta=0
18420     \def\foo{%
18421       \ifundefined{r@\AM@xrprefix pdfpages@page\the\@tempcnta}%
18422         {\let\foo\relax}
18423         {\expandafter\ifx\expandafter\\AM@pagestemp\\
18424           \edef\AM@pagestemp{%
18425             \AM@pageref{\AM@xrprefix pdfpages@page\the\@tempcnta}}%
18426           \else
18427             \edef\AM@pagestemp{\AM@pagestemp,%
18428               \AM@pageref{\AM@xrprefix pdfpages@page\the\@tempcnta}}%
18429           \fi
18430           \advance\@tempcnta 1\relax
18431         }%
18432     \foo
18433   }%
18434   \foo
18435   \expandafter\ifx\expandafter\\AM@pagestemp\\
18436     \def\AM@pagestemp{1}%
18437   \fi
18438 \fi
18439 \ifAM@output
18440   \expandafter\AM@readlist\expandafter{\AM@pagestemp}%
18441   \AM@output{#1}%
18442 \fi
18443 \AM@CheckAtEnd
18444 \endgroup
18445 \AM@ClearShipoutPicture
18446 }

```

## 129 File pgfcorescopes.code-xetex-bidi.def

```

18447 \ProvidesFile{pgfcorescopes.code-xetex-bidi.def}[2015/11/14 v0.1 bidi adaptations for pgf pa
18448 \def\pgfpicture{%
18449   \begingroup%
18450   \ifmmode\else\@RTLfalse\beginL\fi%
18451   \pgfpicturetrue%
18452   \global\advance\pgf@picture@serial@count by1\relax%
18453   \edef\pgfpictureid{pgfid\the\pgf@picture@serial@count}%
18454   \let\pgf@nodecallback=\pgfutil@gobble%
18455   \pgf@picmaxx=-16000pt\relax%
18456   \pgf@picminx=16000pt\relax%
18457   \pgf@picmaxy=-16000pt\relax%
18458   \pgf@picminy=16000pt\relax%
18459   \pgf@relevantforpicturesizetrue%
18460   \pgf@resetpathsizes%
18461   \pgfutil@ifnextchar\bgroup\pgf@oldpicture\pgf@picture%
18462 \def\endpgfpicture{%
18463   \ifpgfrememberpicturepositiononpage%
18464     \hbox to0pt{\pgfsys@markposition{\pgfpictureid}}%

```



```

18465         \fi%
18466         % ok, now let's position the box
18467         \ifdim\pgf@picmaxx=-16000pt\relax%
18468             % empty picture. make size 0.
18469             \global\pgf@picmaxx=0pt\relax%
18470             \global\pgf@picminx=0pt\relax%
18471             \global\pgf@picmaxy=0pt\relax%
18472             \global\pgf@picminy=0pt\relax%
18473         \fi%
18474         % Shift baseline outside:
18475         \pgf@relevantforpicturesizefalse%
18476         \pgf@process{\pgf@baseline}%
18477         \xdef\pgf@shift@baseline{\the\pgf@y}%
18478         %
18479         \pgf@process{\pgf@trimleft}%
18480         \global\advance\pgf@x by-\pgf@picminx
18481         % prepare \hskip\pgf@trimleft@final.
18482         % note that \pgf@trimleft@final is also queried
18483         % by the pgf image externalization.
18484         \xdef\pgf@trimleft@final{-\the\pgf@x}%
18485         %
18486         \pgf@process{\pgf@trimright}%
18487         \global\advance\pgf@x by-\pgf@picmaxx
18488         % prepare \hskip\pgf@trimright@final.
18489         % note that \pgf@trimright@final is also queried
18490         % by the pgf image externalization.
18491         \xdef\pgf@trimright@final{\the\pgf@x}%
18492     %
18493     \pgf@remember@layerlist@globally
18494     \endgroup%
18495     \hss%
18496     \egroup%
18497     \pgf@restore@layerlist@from@global
18498     \pgf@insertlayers%
18499     \endgroup%
18500     \pgfsys@discardpath%
18501     \endgroup%
18502     \pgfsys@endscope%
18503     \pgfsys@endpicture%
18504     \endgroup%
18505     \hss
18506     \egroup%
18507     \pgfsys@typesetpicturebox\pgfpic%
18508     \ifmmode\else\endL\fi%
18509     \endgroup%
18510 }

```

## 130 File pgfsys.code-xetex-bidi.def

```

18511 \ProvidesFile{pgfsys.code-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for pgfsys.code.t
18512 \def\pgfsys@shadingoutsidepgfpicture#1{%
18513     \beginL#1\endL%
18514 }
18515

```



18516

## 131 File picinpar-xetex-bidi.def

```
18517 \ProvidesFile{picinpar-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for picinpar package]
18518 \long\def\@makewincaption#1#2{%
18519   \setbox\@tempboxa\hbox{\footnotesize{\bf #1:\enspace}{#2}}%
18520   \ifdim\wd\@tempboxa>\picwd
18521     {\footnotesize{\bf #1:\enspace}{#2\par}}
18522   \else
18523     \hbox to\picwd{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}
18524   \fi}
18525 \def\endwindow{%
18526   \global\tcd=\tcdsav
18527   \egroup\vskip\parskip\parshape=0 % reset parshape; end \box\rawtext
18528   \vbadness=10000
18529   \splittopskip=0pt
18530 %
18531 % Typeset the lines above the window
18532 %
18533 \ifnum\tcd>0\setbox\holder=\vsplit\rawtext to \tcd\baselineskip
18534 \tcn=\tcd
18535 \loop\advance\tcn -1
18536 \setbox\fslice=\vsplit\holder to\baselineskip
18537 \prune\fslice\linewidth
18538 \topheight=0pt
18539 \ifnum\dp\fslice>\dp\wstrutbox
18540   \advance\topheight-\dp\fslice
18541   \advance\topheight\dp\wstrutbox
18542   \advance\topheight\ilg\fi
18543 \hbox to\linewidth{\box\fslice}
18544 \vskip-\topheight
18545 \ifdim\ht\holder>0pt\repeat
18546 \fi
18547 %
18548 % Now we build the boxes beside the window
18549 %
18550 \global\topheight=\tcl\baselineskip
18551 \ifnum\cumpartcl>0\global\tcl=\cumtcl
18552   \global\topheight=\vpic
18553 \fi
18554 \ifnum\bl>0 \ifnum\br>0 \multiply\topheight by 2\fi\fi
18555 \ifnum\bl>0\setbox\holder=\vsplit\rawtext to\topheight
18556 \else\ifnum\br>0\setbox\holder=\vsplit\rawtext to\topheight\fi\fi
18557 \tcn=\tcl \na=0 \nb=0
18558 \ifnum\bl>0 \ifnum\br>0 \multiply\tcn by 2\fi\fi
18559 \ifnum\bl>0\na=\tcn\ifnum\br>0\divide\na by 2\fi\fi
18560 \ifnum\br>0\nb=\tcn\ifnum\bl>0\divide\nb by 2\fi\fi
18561 \ifnum\na=0\ifnum\nb=0
18562   \setbox\waslice=\vbox to\vpic{\vss}
18563   \setbox\wbslice=\vbox to\vpic{\vss}
18564   \bl=1\br=1
18565   \vskip\ilg
18566 \fi\fi
```



```

18567 %
18568 % both sides
18569 %
18570 \ifnum\na>0 \ifnum\nb>0
18571 \loop\advance\nb -1
18572 \advance\na -1
18573 \if@RTL%
18574 \setbox\bslice=\vsplit\holder to\baselineskip
18575 \prune\bslice\rtside
18576 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
18577 to\rtside{\box\bslice\hfil}}
18578 \setbox\aslice=\vsplit\holder to\baselineskip
18579 \prune\aslice\lftside
18580 \setbox\waslice=\vbox{\unvbox\waslice\hbox
18581 to\lftside{\box\aslice\hfil}}
18582 \else%
18583 \setbox\aslice=\vsplit\holder to\baselineskip
18584 \prune\aslice\lftside
18585 \setbox\waslice=\vbox{\unvbox\waslice\hbox
18586 to\lftside{\box\aslice\hfil}}
18587 \setbox\bslice=\vsplit\holder to\baselineskip
18588 \prune\bslice\rtside
18589 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
18590 to\rtside{\box\bslice\hfil}}
18591 \fi%
18592 \ifnum\nb>0\repeat
18593 \fi\fi
18594 %
18595 % only text on the left side
18596 %
18597 \ifnum\na>0
18598   \loop\advance\na -1
18599   \setbox\aslice=\vsplit\holder to\baselineskip
18600   \prune\aslice\lftside
18601   \setbox\waslice=\vbox{\unvbox\waslice\hbox
18602   to\lftside{\box\aslice\hfil}}
18603   \ifdim\ht\holder>0pt\repeat
18604 \fi
18605 %
18606 % only text on the right side
18607 %
18608 \ifnum\nb>0
18609   \loop\advance\nb -1
18610   \setbox\bslice=\vsplit\holder to\baselineskip
18611   \prune\bslice\rtside
18612   \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
18613   to\rtside{\box\bslice\hfil}}
18614   \ifdim\ht\holder>0pt\repeat
18615 \fi
18616 %
18617 % fixing the dimensions of the window part
18618 %
18619 \ifnum\bl=0\topheight=\ht\wbslice
18620 \else\ifnum\br=0\topheight=\ht\waslice

```



```

18621         \else\ifdim\ht\waslice>\ht\wbslice\topheight=\ht\waslice
18622             \else\topheight=\ht\wbslice\fi\fi\fi
18623 %
18624 % ship out the window material to the main vertical list
18625 %
18626 \ifnum\bl>0 \ifnum\br>0 \ifdim\ht\wbslice<\topheight
18627 \setbox\wbslice=\vbox to\topheight{\box\wbslice\vfll}
18628 \fi\fi\fi
18629 \setbox>windowbox=\vbox{\hbox to\linewidth{%
18630 \ifnum\bl>0\box\waslice\hfill\fi%
18631 \vbox to\topheight{\hrule width\picwd height0pt depth0pt\vskip0pt%
18632 \vfll\unvbox\picbox%
18633 \ifnum\picwd>0\vfll\fi%
18634 \vss}\ifnum\br>0\hfill\vbox{\box\wbslice}\fi}}%
18635 \unvbox>windowbox%
18636 \loop
18637 \setbox\bslice=\vsplit\rawtext to\baselineskip
18638 \prune\bslice\linewidth
18639 \setbox\wbslice=\vbox{\hbox to\linewidth{\box\bslice\hfil}}
18640 \unvbox\wbslice
18641 \ifdim\ht\rawtext>0pt
18642 \repeat
18643 }% FINITO

```

## 132 File plain-xetex-bidi.def

```

18644 \def\TeXXeTOn{\TeXXeTstate=1 }
18645 \def\TeXXeTOff{\TeXXeTstate=0 }
18646 \TeXXeTOn
18647 \def\usebox#1{\leavevmode\copy #1\relax}
18648 \def\bidi@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox\z@
18649 \let\bidi@o@everypar=\everypar
18650 \newtoks\bidi@n@everypar
18651 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
18652 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
18653 \let\everypar=\bidi@n@everypar
18654 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
18655 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
18656 \protected\def\hboxR{\hbox\bgroup
18657 \everyhbox{%
18658 \aftergroup\egroup
18659 \everyhbox{}}%
18660 \beginR
18661 \@hboxRconstructtrue
18662 \bgroup
18663 \aftergroup\endR
18664 \aftergroup\egroup
18665 }\hbox}
18666 \protected\def\hboxL{\hbox\bgroup
18667 \everyhbox{%
18668 \aftergroup\egroup
18669 \everyhbox{}}%
18670 \beginL
18671 \@hboxRconstructfalse

```



```

18672 \bgroup
18673 \aftergroup\endL
18674 \aftergroup\egroup
18675 }\hbox}
18676 \protected\def\ vboxR{\ vbox\bgroup
18677 \everyvbox{%
18678 \aftergroup\egroup
18679 \everyvbox{}}%
18680 \@RTLtrue
18681 \bgroup
18682 \aftergroup\egroup
18683 }\ vbox}
18684 \protected\def\ vboxL{\ vbox\bgroup
18685 \everyvbox{%
18686 \aftergroup\egroup
18687 \everyvbox{}}%
18688 \@RTLfalse
18689 \bgroup
18690 \aftergroup\egroup
18691 }\ vbox}
18692 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\hsize\linewidth\parshape\z@}
18693 \def\endLTR{\par}
18694 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\hsize\linewidth\parshape\z@}
18695 \def\endRTL{\par}
18696 \def\setRTL{\@RTLtrue\@RTL@footnotetrue}
18697 \def\setLTR{\@RTLfalse\@RTL@footnotefalse}
18698 \let\unsetRTL=\setLTR
18699 \let\unsetLTR=\setRTL
18700 \let\LR=\LRE
18701 \let\RL=\RLE
18702 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
18703 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
18704 \let\@ensure@RL=\@ensure@RTL
18705 \let\@ensure@LR=\@ensure@LTR
18706 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
18707 \let\@ensure@maindir=\@ensure@dir
18708 \def\@RTL{RTL}
18709 \def\@LTR{LTR}
18710 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
18711 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
18712 \let\@TeX\TeX
18713 \def\TeX{\@ensure@LTR{\@TeX}}
18714 \def\pagecontents{\ifvoid\topins\else\unvbox\topins\fi
18715 \dimen@=\dp\cclv \unvbox\cclv % open up \box255
18716 \ifvoid\footins\else % footnote info is present
18717 \vskip\skip\footins
18718 \footnoterule
18719 \unvbox\footins\fi
18720 \ifrggedbottom \kern-\dimen@ \vfil \fi
18721 \ifvoid\@bidi@copyins@
18722 \else
18723 \vskip\skip\@bidi@copyins@
18724 \unvbox\@bidi@copyins@
18725 \fi

```



```

18726 }
18727 \long\def\bidireflect@box#1{%
18728   \leavevmode
18729   \setbox\z@\hbox{#{1}}%
18730   \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
18731   \hbox to \wd\z@{\kern\wd\z@\box\tw@\hss}%
18732 }
18733 \def\XeTeX{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
18734   \hbox{\kern-.125em\bidireflect@box{E}}\kern-.1667em \TeX}}$}}
18735 \let\setRL=\setRTL
18736 \let\setLR=\setLTR
18737 \let\unsetRL=\setLTR
18738 \let\bidisaved@eqno=\eqno
18739 \let\bidisaved@leqno=\leqno
18740 \def\eqno{\ifnum\predisplaydirection<\z@ \bidisaved@leqno \else \bidisaved@eqno \fi}
18741 \def\leqno{\ifnum\predisplaydirection<\z@ \bidisaved@eqno \else \bidisaved@leqno \fi}
18742 \def\centerline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
18743 \def\leftline#1{\line{\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
18744 \def\rightline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi}}

```

### 133 File pstricks-xetex-bidi.def

```

18745 \ProvidesFile{pstricks-xetex-bidi.def}[2022/09/22 v0.6 bidi adaptations for pstricks package]
18746 \def\pspicture{\begingroup\ifmmode\else\@RTLfalse\beginL\fi\pst@ifstar\pst@picture}
18747 \def\endpspicture{%
18748   \ifshowgrid\ifnum\showgridp@s>0
18749     \psgrid[xunit=\sh@wgridXunit,yunit=\sh@wgridYunit,style=gridstyle]\fi\fi%
18750   \pst@killglue
18751 % \global\pst@shift=\pst@shift% in fact of the following endgroup
18752 \endgroup
18753 \egroup
18754 \ifdim\wd\pst@hbox=\z@\else
18755   %\@pstrickserr{Extraneous space in the pspicture environment}%
18756   %\Type \space <return> \space to proceed.}%
18757 \fi
18758 \ht\pst@hbox=\pst@dimd
18759 \dp\pst@hbox=-\pst@dimb
18760 \setbox\pst@hbox=\hbox{%
18761   \kern-\pst@dima
18762 % Orig version -----
18763 %\ifx\pst@tempa\@empty\else
18764 %\advance\pst@dimd-\pst@dimb
18765 %\pst@dimd=\pst@tempa\pst@dimd
18766 %\advance\pst@dimd\pst@dimb
18767 %\lower\pst@dimd
18768 %\fi
18769 %----- end Orig
18770   \ifPst@shift@star%\typeout{==pstricks== old behaviour of the shift option}% shift=*
18771     \advance\pst@dimd-\pst@dimb
18772     \pst@dimd=0.5\pst@dimd
18773   \else\pst@dimd-\pst@shift\fi
18774   \advance\pst@dimd\pst@dimb
18775   \lower\pst@dimd
18776   \box\pst@hbox

```





```

18777 \kern\pst@dimc}%
18778 \if@star\setbox\pst@hbox=\hbox{\clipbox@@\z@}\fi
18779 \leavevmode\ifdim\overfullrule=\z@\box\pst@hbox\else
18780 \fboxsep=0pt
18781 \fbox{\rule[-\pst@shift]{0pt}{\ht\pst@hbox}\rule{\wd\pst@hbox}{0pt}}\fi
18782 \ifmmode\else\endL\fi
18783 \endgroup%
18784 \psset[pstricks]{shift=0}% reset value
18785 }
18786
18787 \bidi@patchcmd\@@scalebox{%
18788 \special{x: bscale \pst@tempc \pst@tempd}%
18789 \hbox to \z@\box\pst@hbox\hss}%
18790 \special{x: escale}%
18791 }{%
18792 \if@RTL
18793 \special{x: escale}%
18794 \else
18795 \special{x: bscale \pst@tempc \pst@tempd}%
18796 \fi
18797 \hbox to \z@\box\pst@hbox\hss}%
18798 \if@RTL
18799 \special{x: bscale \pst@tempc \pst@tempd}%
18800 \else
18801 \special{x: escale}%
18802 \fi
18803 }{}{}
18804 \let\ps@@scalebox\@@scalebox
18805

```

## 134 File quotchap-xetex-bidi.def

```

18806 \ProvidesFile{quotchap-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for quotchap package]
18807 \renewcommand{\qauthor}[1]{%
18808 \par\smallskip
18809 {\if@RTL\raggedright\else\raggedleft\fi\upshape #1\quad\hbox{}\par}\bigskip}
18810 \renewcommand{\@makechapterhead}[1]{\chapterheadstartvskip%
18811 {\size@chapter{\sectfont\if@RTL\raggedright\else\raggedleft\fi
18812 {\chapnumfont
18813 \ifnum \c@secnumdepth >\m@ne%
18814 \if@mainmatter\thechapter%
18815 \fi\fi
18816 \par\nobreak}%
18817 {\if@RTL\raggedright\else\raggedleft\fi\advance\if@RTL\rightmargin\else\leftmargin\fi
18818 \nobreak\chapterheadendvskip}}
18819 \renewcommand*{\@iprintcites}{%
18820 \vbox to\z@{\leavevmode\copy\@quotebox\vss}
18821 \global\let\@printcites\relax}

```

## 135 File ragged2e-xetex-bidi.def

```

18822 \ProvidesFile{ragged2e-xetex-bidi.def}[2018/10/17 v0.3 bidi adaptations for ragged2e package]
18823 \renewcommand{\Centering}{%
18824 \ifx\\ \@raggedtwoe@savedcr

```



```

18825     \let\\\@centercr
18826     \fi
18827     \let\@gnewline\@raggedtwoe@gnewline
18828     \if@RTL\rightskip\else\leftskip\fi\CenteringLeftskip
18829     \@rightskip\CenteringRightskip
18830     \if@RTL\leftskip\else\rightskip\fi\@rightskip
18831     \parfillskip\CenteringParfillskip
18832     \parindent\CenteringParindent
18833     \@raggedtwoe@spaceskiptrue
18834     \@raggedtwoe@everyselectfont
18835   }
18836 \renewcommand{\RaggedLeft}{%
18837   \ifx\\\@raggedtwoe@savedcr
18838     \let\\\@centercr
18839     \fi
18840     \let\@gnewline\@raggedtwoe@gnewline
18841     \if@RTL\rightskip\else\leftskip\fi\RaggedLeftLeftskip
18842     \@rightskip\RaggedLeftRightskip
18843     \if@RTL\leftskip\else\rightskip\fi\@rightskip
18844     \parfillskip\RaggedLeftParfillskip
18845     \parindent\RaggedLeftParindent
18846     \@raggedtwoe@spaceskiptrue
18847     \@raggedtwoe@everyselectfont
18848   }
18849 \renewcommand{\RaggedRight}{%
18850   \ifx\\\@raggedtwoe@savedcr
18851     \let\\\@centercr
18852     \fi
18853     \let\@gnewline\@raggedtwoe@gnewline
18854     \if@RTL\rightskip\else\leftskip\fi\RaggedRightLeftskip
18855     \@rightskip\RaggedRightRightskip
18856     \if@RTL\leftskip\else\rightskip\fi\@rightskip
18857     \parfillskip\RaggedRightParfillskip
18858     \parindent\RaggedRightParindent
18859     \@raggedtwoe@spaceskiptrue
18860     \@raggedtwoe@everyselectfont
18861   }
18862 \renewcommand{\justifying}{%
18863   \let\\\@raggedtwoe@savedcr
18864   \let\@gnewline\@raggedtwoe@saved@gnewline
18865   \if@RTL\rightskip\else\leftskip\fi\z@
18866   \@rightskip\z@
18867   \if@RTL\leftskip\else\rightskip\fi\@rightskip
18868   \parfillskip\JustifyingParfillskip
18869   \parindent\JustifyingParindent
18870   \@raggedtwoe@spaceskipfalse
18871   \@raggedtwoe@everyselectfont
18872 }
18873 \def\@raggedtwoe@raggedrightboxes@opt{%
18874 \renewcommand{\@arrayparboxrestore}{%
18875   \let\if@nobreak\iffalse
18876   \let\if@noskipsec\iffalse
18877   \let\par\@par
18878   \let\-\@dischyph

```



```

18879 \let'\@acci\let'\@accii\let\=@acciii
18880 \parskip\z@skip
18881 \everypar{}%
18882 \linewidth\hsize
18883 \@totalleftmargin\z@
18884 \if@RTL
18885 \RaggedLeft
18886 \else
18887 \RaggedRight
18888 \fi
18889 \lineskip\normallineskip
18890 \baselineskip\normalbaselineskip
18891 \sloppy}%
18892 \let\@raggedtwoe@raggedrightboxes@opt\relax
18893 }
18894 \def\@raggedtwoe@document@opt{%
18895 \AtBeginDocument{\@raggedtwoe@abdhook}%
18896 \@raggedtwoe@raggedrightboxes@opt
18897 \@raggedtwoe@footmisctrue
18898 \let\@raggedtwoe@document@opt\relax
18899 }
18900 \def\@raggedtwoe@abdhook{%
18901 \PackageInfo{ragged2e}{ABD: executing '\string\RaggedLeft' for
18902 right to left documents and '\string\RaggedRight' for left
18903 to right documents}%
18904 \if@RTL
18905 \RaggedLeft
18906 \else
18907 \RaggedRight
18908 \fi
18909 \@ifundefined{@tocrmarg}{\edef\@tocrmarg{\@tocrmarg plus 2em}}%
18910 \let\@raggedtwoe@abdhook\relax
18911 }
18912 \@ifpackagewith{ragged2e}{raggedrightboxes}{%
18913 \@raggedtwoe@raggedrightboxes@opt
18914 }{}
18915 \@ifpackagewith{ragged2e}{document}{%
18916 \@raggedtwoe@document@opt
18917 }{}
18918 \let\origin@RaggedLeft=\RaggedLeft
18919 \let\origin@RaggedRight=\RaggedRight
18920 \def\RaggedLeft{\if@RTL\origin@RaggedRight\else\origin@RaggedLeft\fi}
18921 \def\RaggedRight{\if@RTL\origin@RaggedLeft\else\origin@RaggedRight\fi}

```

## 136 File rapport1-xetex-bidi.def

```

18922 \ProvidesFile{rapport1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for rapport1 class f
18923 \renewenvironment{theindex}{%
18924 \if@twocolumn
18925 \@restonecolfalse
18926 \else
18927 \@restonecoltrue
18928 \fi
18929 \columnseprule \z@

```



```

18930 \columnsep 35\p@
18931 \twocolumn[\@makeschapterhead{\indexname}]{%
18932 \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}}%
18933 \thispagestyle{plain}\parindent\z@
18934 \parskip\z@ \@plus .3\p@\relax
18935 \let\item\@idxitem
18936 }{%
18937 \if@restonecol\onecolumn\else\clearpage\fi}
18938 \renewcommand*\head@style{%
18939 \interlinepenalty \@M
18940 \hyphenpenalty=\@M \exhyphenpenalty=\@M
18941 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
18942 \if@titlepage
18943 \renewenvironment{abstract}{%
18944 \titlepage
18945 \null\vfil
18946 \section*{\SectFont\abstractname}%
18947 \noindent\ignorespaces}
18948 {\par\vfil\null\endtitlepage}
18949 \else
18950 \renewenvironment{abstract}{%
18951 \if@twocolumn
18952 \section*{\abstractname}%
18953 \else
18954 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
18955 \section*{\small\SectFont\abstractname}%
18956 \noindent\ignorespaces
18957 \fi}
18958 {\if@twocolumn\else\par\egroup\fi}
18959 \fi
18960 \renewcommand*\@regtocline[3]{%
18961 \ifnum #1>\c@tocdepth
18962 \else
18963 \vskip\z@\@plus.2\p@
18964 {\hangindent\z@ \afterindenttrue \interlinepenalty\@M
18965 \if@RTL\rightskip\else\leftskip\fi\unitindent
18966 \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
18967 \parfillskip\z@
18968 \@tempdima\unitindent
18969 \parindent\z@
18970 \leavevmode
18971 \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
18972 \hskip 1em \nobreak{\slshape #3}\par
18973 }%
18974 \fi}
18975 \if@oldtoc
18976 \renewcommand*\l@part[2]{%
18977 \ifnum \c@tocdepth >-2\relax
18978 \addpenalty{-\@highpenalty}%
18979 \addvspace{2.25em \@plus\p@}%
18980 \begingroup
18981 \setlength\@tempdima{3em}%
18982 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
18983 \parfillskip -\@pnumwidth

```



```

18984      {\leavevmode
18985        \large \bfseries #1\hfil \hb@xt@{\pnumwidth{\hss #2}}\par
18986        \nobreak
18987        \global\@nobreaktrue
18988        \everypar{\global\@nobreakfalse\everypar{}}%
18989      \endgroup
18990    \fi}
18991  \else
18992    \renewcommand*\l@part{%
18993      \ifnum \c@tocdepth >-2\relax
18994        \addpenalty{-\@highpenalty}%
18995        \addvspace{2.25em \@plus \p@}%
18996        \regtocline{0}%
18997      \fi}
18998  \fi
18999  \if@oldtoc
19000  \renewcommand*\l@chapter[2]{%
19001    \addpenalty{-\@highpenalty}%
19002    \vskip 1.0em \@plus \p@
19003    \setlength\@tempdima{1.5em}%
19004    \begingroup
19005    \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \pnumwidth
19006    \parfillskip -\pnumwidth
19007    \leavevmode \bfseries
19008    \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19009    \hskip -\if@RTL\rightskip\else\leftskip\fi
19010    #1\nobreak\hfil \nobreak\hb@xt@{\pnumwidth{\hss #2}}\par
19011    \penalty\@highpenalty
19012    \endgroup}
19013  \else
19014    \renewcommand*\l@chapter{\@regtocline{0}}
19015  \fi
19016  \renewcommand*\left@footnoterule{%
19017    \kern-3\p@
19018    \kern.5\baselineskip
19019    \hrule\@width\unitindent
19020    \kern.4\baselineskip
19021  }
19022  \renewcommand*\right@footnoterule{%
19023    \kern-3\p@
19024    \kern.5\baselineskip
19025    \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
19026    \kern.4\baselineskip}
19027  \renewenvironment{thebibliography}[1]
19028    {\chapter*{\bibname}%
19029     \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
19030     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19031     \bidi@thebibliography@font@hook%
19032     \list{\@biblabel{\@arabic\c@enumiv}}%
19033       {\settowidth\labelwidth{\@biblabel{#1}}%
19034        \leftmargin\labelwidth
19035        \advance\leftmargin\labelsep
19036        \@openbib@code
19037        \usecounter{enumiv}}%

```



```

19038         \let\p@enumiv\@empty
19039         \renewcommand*\theenumiv{\@arabic\c@enumiv}}}%
19040         \sloppy\clubpenalty4000\widowpenalty4000%
19041         \sfcode`\.\@m}
19042     {\def\@noitemerr
19043       {\@latex@warning{Empty `thebibliography' environment}}}%
19044     \endlist}
19045 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
19046 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
19047 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
19048 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
19049 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
19050 \renewcommand*\theequation{%
19051   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
19052 \renewcommand*\thefigure{%
19053   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
19054 \renewcommand*\thetable{%
19055   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
19056 \if@titlepage
19057 \renewcommand*\TitleFont{\rmfamily}
19058 \renewcommand*\maketitle{%
19059   \begin{titlepage}%
19060     \let\footnotesize\small
19061     \let\right@footnoterule\relax
19062     \let\left@footnoterule\relax
19063     \let\textwidth\footnoterule\relax
19064     \let \footnote \thanks
19065     \long\def\@makefnmark##1{\parindent\z@
19066       \def\labelitemi{\textendash}\@revlabeltrue
19067       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
19068     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19069     \if@compatibility\setcounter{page}{0}\fi
19070     \null\vfil
19071     \vskip 60\p@
19072     \begin{center}%
19073       \TitleFont
19074       {\LARGE \def\\{\penalty -\@M}
19075         \if@allcaps
19076           \expandafter\uc@nothanks\@title\thanks\relax
19077         \else
19078           \@title
19079           \fi\par}%
19080       \vskip 3em%
19081       {\large
19082         \lineskip .75em \parindent\z@
19083         \begin{tabular}[t]{c}%
19084           \if@allcaps
19085             \expandafter\uc@authornothanks\@author\and\relax
19086           \else
19087             \@author
19088           \fi
19089         \end{tabular}\par}%
19090       \vskip 1.5em%
19091       {\large

```



```

19092         \if@allcaps
19093             \uppercase\expandafter{\@date}%
19094         \else
19095             \@date
19096         \fi\par}%
19097     \end{center}\par
19098     \@thanks
19099     \vfil\null
19100 \end{titlepage}%
19101 \setcounter{footnote}{0}%
19102 \global\let\thanks\relax
19103 \global\let\maketitle\relax
19104 \global\let\@thanks\@empty
19105 \global\let\@author\@empty
19106 \global\let\@title\@empty
19107 \global\let\@date\@empty
19108 \global\let\title\relax
19109 \global\let\author\relax
19110 \global\let\date\relax
19111 \global\let\and\relax
19112 }
19113 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
19114 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
19115     \futurelet\@tempa\uc@ax}
19116 \def\uc@ax{%
19117     \ifx\@tempa\relax
19118     \else
19119         \\\andname \\\expandafter\uc@authornothanks
19120     \fi}
19121 \def\uc@tx{\ifx\@tempa\relax
19122     \else \expandafter\uc@ty \fi}
19123 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
19124 \else
19125 \renewcommand*\maketitle{\par
19126     \begingroup
19127         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19128         \def\@makefnmark{\rlap{%
19129             \@textsuperscript{\normalfont\@thefnmark}}}%
19130         \long\def\@makefntext{\@xmakefntext{%
19131             \@textsuperscript{\normalfont\@thefnmark}}}%
19132         \if@twocolumn
19133             \ifnum \col@number=\@one
19134                 \@maketitle
19135             \else
19136                 \twocolumn[\@maketitle]%
19137             \fi
19138         \else
19139             \newpage
19140             \global\@topnum\z@
19141             \@maketitle
19142         \fi
19143         \thispagestyle{plain}\@thanks
19144     \endgroup
19145     \setcounter{footnote}{0}%

```



```

19146 \global\let\thanks\relax
19147 \global\let\maketitle\relax
19148 \global\let\@maketitle\relax
19149 \global\let\@thanks\@empty
19150 \global\let\@author\@empty
19151 \global\let\@title\@empty
19152 \global\let\@date\@empty
19153 \global\let\title\relax
19154 \global\let\author\relax
19155 \global\let\date\relax
19156 \global\let\and\relax
19157 }
19158 \def\@maketitle{%
19159 \newpage
19160 \null
19161 \vskip 2em%
19162 \begin{center}%
19163 \let \footnote \thanks
19164 {\LARGE \TitleFont \@title \par}%
19165 \vskip 1.5em%
19166 {\large \TitleFont
19167 \lineskip .5em%
19168 \begin{tabular}[t]{c}%
19169 \@author
19170 \end{tabular}\par}%
19171 \vskip 1em%
19172 {\large \TitleFont \@date}%
19173 \end{center}%
19174 \par
19175 \vskip 1.5em}
19176 \fi

```

### 137 File rapport3-xetex-bidi.def

```

19177 \ProvidesFile{rapport3-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for rapport3 class f
19178 \renewenvironment{theindex}{%
19179 \if@twocolumn
19180 \@restonecolfalse
19181 \else
19182 \@restonecoltrue
19183 \fi
19184 \columnseprule \z@
19185 \columnsep 35\p@
19186 \twocolumn[\@makeschapterhead{\indexname}]%
19187 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}}%
19188 \thispagestyle{plain}\parindent\z@
19189 \parskip\z@ \@plus .3\p@\relax
19190 \let\item\@idxitem
19191 }{%
19192 \if@restonecol\onecolumn\else\clearpage\fi}
19193 \if@titlepage
19194 \renewcommand*\TitleFont{\rmfamily}
19195 \renewcommand*\maketitle{%
19196 \begin{titlepage}%

```





```

19197 \let\footnotesize\small
19198 \let\right@footnoterule\relax
19199 \let\left@footnoterule\relax
19200 \let\textwidth@footnoterule\relax
19201 \let \footnote \thanks
19202 \let \LTRfootnote \LTRthanks
19203 \let \RTLfootnote \RTLthanks
19204 \long\def\@makefntext##1{\parindent\z@
19205 \def\labelitemi{\textendash}\@revlabeltrue
19206 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
19207 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19208 \if@compatibility\setcounter{page}{0}\fi
19209 \null\vfil
19210 \vskip 60\p@
19211 \begin{center}%
19212 \TitleFont
19213 {\LARGE \def\{\{\penalty -\@M}
19214 \if@allcaps
19215 \expandafter\uc@nothanks\@title\thanks\relax
19216 \else
19217 \@title
19218 \fi\par}%
19219 \vskip 3em%
19220 {\large
19221 \lineskip .75em \parindent\z@
19222 \begin{tabular}[t]{c}%
19223 \if@allcaps
19224 \expandafter\uc@authornothanks\@author\and\relax
19225 \else
19226 \@author
19227 \fi
19228 \end{tabular}\par}%
19229 \vskip 1.5em%
19230 {\large
19231 \if@allcaps
19232 \uppercase\expandafter{\@date}%
19233 \else
19234 \@date
19235 \fi\par}%
19236 \end{center}\par
19237 \@thanks
19238 \vfil\null
19239 \end{titlepage}%
19240 \setcounter{footnote}{0}%
19241 \global\let\thanks\relax
19242 \global\let\LTRthanks\relax
19243 \global\let\RTLthanks\relax
19244 \global\let\maketitle\relax
19245 \global\let\@thanks\@empty
19246 \global\let\@author\@empty
19247 \global\let\@title\@empty
19248 \global\let\@date\@empty
19249 \global\let\title\relax
19250 \global\let\author\relax

```



```

19251 \global\let\date\relax
19252 \global\let\and\relax
19253 }
19254 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
19255 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
19256 \futurelet\@tempa\uc@ax}
19257 \def\uc@ax{%
19258 \ifx\@tempa\relax
19259 \else
19260 \\\andname \\\expandafter\uc@authornothanks
19261 \fi}
19262 \def\uc@tx{\ifx\@tempa\relax
19263 \else \expandafter\uc@ty \fi}
19264 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
19265 \else
19266 \renewcommand*\maketitle{\par
19267 \begingroup
19268 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19269 \def\@makefnmark{\rlap{%
19270 \@textsuperscript{\normalfont\@thefnmark}}}%
19271 \long\def\@makefntext{\@xmakefntext{%
19272 \@textsuperscript{\normalfont\@thefnmark}}}%
19273 \if@twocolumn
19274 \ifnum \col@number=\@ne
19275 \maketitle
19276 \else
19277 \twocolumn[\maketitle]%
19278 \fi
19279 \else
19280 \newpage
19281 \global\@topnum\z@
19282 \maketitle
19283 \fi
19284 \thispagestyle{plain}\@thanks
19285 \endgroup
19286 \setcounter{footnote}{0}%
19287 \global\let\thanks\relax
19288 \global\let\LTRthanks\relax
19289 \global\let\RTLthanks\relax
19290 \global\let\maketitle\relax
19291 \global\let\@maketitle\relax
19292 \global\let\@thanks\@empty
19293 \global\let\@author\@empty
19294 \global\let\@title\@empty
19295 \global\let\@date\@empty
19296 \global\let\title\relax
19297 \global\let\author\relax
19298 \global\let\date\relax
19299 \global\let\and\relax
19300 }
19301 \def\@maketitle{%
19302 \newpage
19303 \null
19304 \vskip 2em%

```



```

19305 \if@titlecentered
19306   \begin{center}%
19307     \let \footnote \thanks
19308     \let \LTRfootnote \LTRthanks
19309     \let \RTLfootnote \RTLthanks
19310     {\LARGE \TitleFont \@title \par}%
19311     \vskip 1.5em%
19312     {\large \TitleFont
19313       \lineskip .5em%
19314       \begin{tabular}[t]{c}%
19315         \@author
19316       \end{tabular}\par}%
19317     \vskip 1em%
19318     {\large \TitleFont \@date}%
19319   \end{center}%
19320 \else
19321   {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
19322   {\large \TitleFont \lineskip .5em \tabcolsep\z@
19323     \def\and{%% \begin{tabular} has already started
19324       \end{tabular}\hskip 1em plus .17fil
19325       \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabu
19326       \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}%
19327     \vskip 1em {\large \TitleFont \@date}%
19328 \fi
19329 \par
19330 \vskip 1.5em}
19331 \fi
19332 \renewcommand*\@regtocline[3]{%
19333   \ifnum #1>\c@tocdepth
19334   \else
19335     \vskip\z@\@plus.2\p@
19336     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
19337       \if@RTL\rightskip\else\leftskip\fi\unitindent
19338       \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
19339       \parfillskip\z@
19340       \@tempdima\unitindent
19341       \parindent\z@
19342       \leavevmode
19343       \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
19344       \hskip 1em \nobreak{\slshape #3}\par
19345     }%
19346   \fi}
19347 \if@oldtoc
19348 \renewcommand*\l@part[2]{%
19349   \ifnum \c@tocdepth >-2\relax
19350     \addpenalty{-\@highpenalty}%
19351     \addvspace{2.25em \@plus\p@}%
19352     \begingroup
19353       \setlength\@tempdima{3em}%
19354       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19355       \parfillskip -\@pnumwidth
19356       {\leavevmode
19357         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
19358       \nobreak

```



```

19359         \global\@nobreake>true
19360         \everypar{\global\@nbreakfalse\everypar{}}%
19361     \endgroup
19362 \fi}
19363 \else
19364     \renewcommand*\l@part{%
19365         \ifnum \c@tocdepth >-2\relax
19366             \addpenalty{-\@highpenalty}%
19367             \addvspace{2.25em \@plus \p@}%
19368             \@regtocline{0}%
19369         \fi}
19370 \fi
19371 \if@oldtoc
19372 \renewcommand*\l@chapter[2]{%
19373     \addpenalty{-\@highpenalty}%
19374     \vskip 1.0em \@plus \p@
19375     \setlength\@tempdima{1.5em}%
19376     \begingroup
19377     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19378     \parfillskip -\@pnumwidth
19379     \leavevmode \bfseries
19380     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19381     \hskip -\if@RTL\rightskip\else\leftskip\fi
19382     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19383     \penalty\@highpenalty
19384     \endgroup}
19385 \else
19386     \renewcommand*\l@chapter{\@regtocline{0}}
19387 \fi
19388 \renewcommand*\head@style{%
19389     \interlinepenalty \@M
19390     \hyphenpenalty=\@M \exhyphenpenalty=\@M
19391     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
19392 \if@titlepage
19393     \renewenvironment{abstract}{%
19394         \titlepage
19395         \null\vfil
19396         \section*{\SectFont\abstractname}%
19397         \noindent\ignorespaces}
19398     {\par\vfil\null\endtitlepage}
19399 \else
19400     \renewenvironment{abstract}{%
19401         \if@twocolumn
19402             \section*{\abstractname}%
19403         \else
19404             \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
19405             \section*{\small\SectFont\abstractname}%
19406             \noindent\ignorespaces
19407         \fi}
19408     {\if@twocolumn\else\par\egroup\fi}
19409 \fi
19410 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
19411 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
19412 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}

```



```

19413 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
19414 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
19415 \renewcommand*\thefigure{%
19416   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
19417 \renewcommand*\thetable{%
19418   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
19419 \renewcommand*\theequation{%
19420   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
19421 \renewenvironment{thebibliography}[1]
19422   {\chapter*\bibname}%
19423   \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
19424   \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
19425   \bidi@thebibliography@font@hook%
19426   \list{\@biblabel{\@arabic\c@enumiv}}%
19427     {\settowidth\labelwidth{\@biblabel{#1}}%
19428     \leftmargin\labelwidth
19429     \advance\leftmargin\labelsep
19430     \@openbib@code
19431     \usecounter{enumiv}%
19432     \let\p@enumiv\@empty
19433     \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
19434   \sloppy\clubpenalty4000\widowpenalty4000%
19435   \sfcode`.\@m}
19436   {\def\@noitemerr
19437     {\@latex@warning{Empty `thebibliography' environment}}}%
19438   \endlist}
19439 \renewcommand*\left@footnoterule{%
19440   \kern-3\p@
19441   \kern.5\baselineskip
19442   \hrule\@width\unitindent
19443   \kern.4\baselineskip
19444 }
19445 \renewcommand*\right@footnoterule{%
19446   \kern-3\p@
19447   \kern.5\baselineskip
19448   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
19449   \kern.4\baselineskip}
19450 \renewcommand*\head@style{%
19451   \interlinepenalty \@M
19452   \hyphenpenalty=\@M \exhyphenpenalty=\@M
19453   \ifRTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}

```

## 138 File refrep-xetex-bidi.def

```

19454 \ProvidesFile{refrep-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for refrep class for X
19455 \if@titlepage
19456   \renewcommand\maketitle{\begin{titlepage}%
19457     \let\footnotesize\small
19458     \let\right@footnoterule\relax
19459     \let\left@footnoterule\relax
19460     \let\textwidth\footnoterule\relax
19461     \let\footnote\thanks
19462     \let\LTRfootnote\LTRthanks
19463     \let\RTLfootnote\RTLthanks

```



```

19464 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19465 \def\@makefnmark%
19466     {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
19467 \long\def\@makefntext##1{%
19468     \setpar{\@par
19469         \@tempdima = \hspace
19470         \advance\@tempdima -1em
19471         \parshape \@ne 1em \@tempdima}%
19472     \par\parindent 1em \noindent
19473     \hb@xt@\z@\{ \hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
19474 \null\vfil
19475 \vskip 60\p@
19476 \begin{center}%
19477     {\LARGE \@title \par}%
19478     \vskip 3em%
19479     {\large
19480         \lineskip .75em%
19481         \begin{tabular}[t]{c}%
19482             \@author
19483         \end{tabular}\par}%
19484     \vskip 1.5em%
19485     {\large \@date \par}%           % Set date in \large size.
19486 \end{center}\par
19487 \@thanks
19488 \vfil\null
19489 \end{titlepage}%
19490 \setcounter{footnote}{0}%
19491 \global\let\thanks\relax
19492 \global\let\LTRthanks\relax
19493 \global\let\RTLthanks\relax
19494 \global\let\maketitle\relax
19495 \global\let\@thanks\@empty
19496 \global\let\@author\@empty
19497 \global\let\@date\@empty
19498 \global\let\@title\@empty
19499 \global\let\title\relax
19500 \global\let\author\relax
19501 \global\let\date\relax
19502 \global\let\and\relax
19503 }
19504 \else
19505 \renewcommand\maketitle{\par
19506     \begingroup
19507     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19508     \def\@makefnmark%
19509         {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
19510     \long\def\@makefntext##1{%
19511         \setpar{\@par
19512             \@tempdima = \hspace
19513             \advance\@tempdima -1em
19514             \parshape \@ne 1em \@tempdima}%
19515         \par\parindent 1em \noindent
19516         \hb@xt@\z@\{ \hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
19517     \if@twocolumn

```



```

19518     \ifnum \col@number=\@ne
19519         \@maketitle
19520     \else
19521         \twocolumn[\@maketitle]%
19522     \fi
19523 \else
19524     \newpage
19525     \global\@topnum\z@    % Prevents figures from going at top of page.
19526     \@maketitle
19527 \fi
19528 \thispagestyle{empty}\@thanks
19529 \endgroup
19530 \setcounter{footnote}{0}%
19531 \global\let\thanks\relax
19532 \global\let\LTRthanks\relax
19533 \global\let\RTLthanks\relax
19534 \global\let\maketitle\relax
19535 \global\let\@maketitle\relax
19536 \global\let\@thanks\@empty
19537 \global\let\@author\@empty
19538 \global\let\@date\@empty
19539 \global\let\@title\@empty
19540 \global\let\title\relax
19541 \global\let\author\relax
19542 \global\let\date\relax
19543 \global\let\and\relax
19544 }
19545 \def\@maketitle{%
19546     \newpage
19547     \null
19548     \longthickrule\vskip1.5em%
19549     \let \footnote \thanks
19550     \let \LTRfootnote \LTRthanks
19551     \let \RTLfootnote \RTLthanks
19552     {\secshape \parskip\z@ \parindent\z@
19553     \Large\bfseries \@title \par}%
19554     \vskip1.5em\longthickrule\vskip1.5em%
19555     {\normalsize
19556     \lineskip .5em%
19557     \begin{flushright}%
19558         {\slshape\@author\par}
19559         \vskip 1em%
19560         {\@date}%
19561     \end{flushright}\par}%
19562     \vskip 1.5em}
19563 \fi
19564 \renewcommand*\l@part[2]{%
19565     \ifnum \c@tocdepth >-2\relax
19566         \addpenalty{-\@highpenalty}%
19567         \addvspace{2.25em \@plus\p@}%
19568     \begingroup
19569         \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19570         \parfillskip -\@pnumwidth
19571     {\leavevmode

```



```

19572      \large \bfseries #1\hfil \hbox to\@pnumwidth{\hss #2}}\par
19573      \nobreak
19574      \global\@nobreaktrue
19575      \everypar{\global\@nobreakfalse\everypar{}}%
19576    \endgroup
19577  \fi}
19578 \renewcommand*\l@chapter[2]{%
19579   \ifnum \c@tocdepth >\m@ne
19580     \addpenalty{-\@highpenalty}%
19581     \vskip 1.0em \plus\p@
19582     \setlength\@tempdima{1.5em}%
19583     \begingroup
19584     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19585     \parfillskip -\@pnumwidth
19586     \leavevmode \bfseries
19587     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19588     \hskip -\if@RTL\rightskip\else\leftskip\fi
19589     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19590     \penalty\@highpenalty
19591   \endgroup
19592 \fi}
19593 \renewcommand\secshape{\if@RTL\rightskip\else\leftskip\fi=-\leftmarginwidth%
19594                      \if@RTL\leftskip\else\rightskip\fi=\@flushglue%
19595                      \hyphenpenalty=2000}
19596 \renewcommand\left@footnoterule{%
19597   \kern-3\p@
19598   \hrule\@width.4\columnwidth
19599   \kern 2.6\p@}
19600 \renewcommand\right@footnoterule{%
19601   \kern-3\p@
19602   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
19603   \kern2.6\p@}
19604 \renewcommand\theequation
19605 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19606 \renewcommand\thefigure
19607 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
19608 \renewcommand\thetable%
19609 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
19610 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
19611 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
19612 \renewcommand\thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
19613 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
19614 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
19615 \renewenvironment{thebibliography}[1]
19616 {\chapter*{\bibname
19617   \mkboth{\bibname}{\bibname}}%
19618   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19619   \bidi@thebibliography@font@hook%
19620   \list{\@biblabel{\@arabic\c@enumiv}}%
19621     {\settowidth\labelwidth{\@biblabel{#1}}%
19622     \leftmargin\labelwidth
19623     \advance\leftmargin\labelsep
19624     \@openbib@code
19625     \usecounter{enumiv}}%

```





```

19626         \let\p@enumiv\@empty
19627         \renewcommand\theenumiv{\@arabic\c@enumiv}}}%
19628         \sloppy
19629         \clubpenalty4000
19630         \@clubpenalty \clubpenalty
19631         \widowpenalty4000%
19632     \sfcode`\.=\@m}
19633     {\def\@noitemerr
19634       {\@latex@warning{Empty `thebibliography' environment}}}%
19635     \endlist}

```

### 139 File report-xetex-bidi.def

```

19636 \ProvidesFile{report-xetex-bidi.def}[2017/06/09 v0.8 bidi adaptations for standard report cl
19637 \renewenvironment{theindex}
19638     {\if@twocolumn
19639       \@restonecolfalse
19640       \else
19641         \@restonecoltrue
19642       \fi
19643       \columnseprule \z@
19644       \columnsep 35\p@
19645       \twocolumn[\@makeschapterhead{\indexname}}}%
19646       \@mkboth{\MakeUppercase\indexname}%
19647               {\MakeUppercase\indexname}%
19648       \thispagestyle{plain}\parindent\z@
19649       \parskip\z@ \@plus .3\p@\relax
19650       \let\item\@idxitem}
19651     {\if@restonecol\onecolumn\else\clearpage\fi}
19652 \if@titlepage
19653 \renewcommand\maketitle{\begin{titlepage}%
19654 \let\footnotesize\small
19655 \let\right@footnoterule\relax
19656 \let\left@footnoterule\relax
19657 \let\textwidth\footnoterule\relax
19658 \let \footnote \thanks
19659 \let \LTRfootnote \LTRthanks
19660 \let \RTLfootnote \RTLthanks
19661 \null\vfil
19662 \vskip 60\p@
19663 \begin{center}%
19664   {\LARGE \@title \par}%
19665   \vskip 3em%
19666   {\large
19667     \lineskip .75em%
19668     \begin{tabular}[t]{c}%
19669       \@author
19670     \end{tabular}\par}%
19671     \vskip 1.5em%
19672     {\large \@date \par}%           % Set date in \large size.
19673 \end{center}\par
19674 \@thanks
19675 \vfil\null
19676 \end{titlepage}%

```



```

19677 \setcounter{footnote}{0}%
19678 \global\let\thanks\relax
19679 \global\let\LTRthanks\relax
19680 \global\let\RTLthanks\relax
19681 \global\let\maketitle\relax
19682 \global\let\@thanks\@empty
19683 \global\let\@author\@empty
19684 \global\let\@date\@empty
19685 \global\let\@title\@empty
19686 \global\let\title\relax
19687 \global\let\author\relax
19688 \global\let\date\relax
19689 \global\let\and\relax
19690 }
19691 \else
19692 \renewcommand\maketitle{\par
19693 \begingroup
19694 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19695 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
19696 \long\def\@makefntext##1{\parindent 1em\noindent
19697 \hb@xt@1.8em{%
19698 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
19699 \if@twocolumn
19700 \ifnum \col@number=\@ne
19701 \maketitle
19702 \else
19703 \twocolumn[\maketitle]%
19704 \fi
19705 \else
19706 \newpage
19707 \global\@topnum\z@ % Prevents figures from going at top of page.
19708 \maketitle
19709 \fi
19710 \thispagestyle{plain}\@thanks
19711 \endgroup
19712 \setcounter{footnote}{0}%
19713 \global\let\thanks\relax
19714 \global\let\LTRthanks\relax
19715 \global\let\RTLthanks\relax
19716 \global\let\maketitle\relax
19717 \global\let\@maketitle\relax
19718 \global\let\@thanks\@empty
19719 \global\let\@author\@empty
19720 \global\let\@date\@empty
19721 \global\let\@title\@empty
19722 \global\let\title\relax
19723 \global\let\author\relax
19724 \global\let\date\relax
19725 \global\let\and\relax
19726 }
19727 \def\maketitle{%
19728 \newpage
19729 \null
19730 \vskip 2em%

```



```

19731 \begin{center}%
19732 \let \footnote \thanks
19733 \let \LTRfootnote \LTRthanks
19734 \let \RTLfootnote \RTLthanks
19735 {\LARGE \@title \par}%
19736 \vskip 1.5em%
19737 {\large
19738 \lineskip .5em%
19739 \begin{tabular}[t]{c}%
19740 \@author
19741 \end{tabular}\par}%
19742 \vskip 1em%
19743 {\large \@date}%
19744 \end{center}%
19745 \par
19746 \vskip 1.5em}
19747 \fi
19748 \renewcommand*\l@part[2]{%
19749 \ifnum \c@tocdepth >-2\relax
19750 \addpenalty{-\@highpenalty}%
19751 \addvspace{2.25em \@plus\p@}%
19752 \setlength\@tempdima{3em}%
19753 \begingroup
19754 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19755 \parfillskip -\@pnumwidth
19756 {\leavevmode
19757 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
19758 \nobreak
19759 \global\@nobreaktrue
19760 \everypar{\global\@nobreakfalse\everypar{}}%
19761 \endgroup
19762 \fi}
19763 \renewcommand*\l@chapter[2]{%
19764 \ifnum \c@tocdepth >\m@ne
19765 \addpenalty{-\@highpenalty}%
19766 \vskip 1.0em \@plus\p@
19767 \setlength\@tempdima{1.5em}%
19768 \begingroup
19769 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19770 \parfillskip -\@pnumwidth
19771 \leavevmode \bfseries
19772 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19773 \hskip -\if@RTL\rightskip\else\leftskip\fi
19774 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19775 \penalty\@highpenalty
19776 \endgroup
19777 \fi}
19778 \renewcommand\left@footnoterule{%
19779 \kern-3\p@
19780 \hrule\@width.4\columnwidth
19781 \kern2.6\p@}
19782 \renewcommand\right@footnoterule{%
19783 \kern-3\p@
19784 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }}

```



```

19785 \kern2.6\p@}
19786 \renewcommand\theequation
19787 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19788 \renewcommand \thefigure
19789 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
19790 \renewcommand \thetable
19791 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
19792 \renewcommand \thechapter {\@arabic\c@chapter}
19793 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
19794 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
19795 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
19796 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
19797 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
19798 \def\@makechapterhead#1{%
19799 \vspace*{50\p@}%
19800 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
19801 \ifnum \c@secnumdepth >\m@ne
19802 \huge\bfseries \@chapapp\space \thechapter
19803 \par\nobreak
19804 \vskip 20\p@
19805 \fi
19806 \interlinepenalty\@M
19807 \Huge \bfseries #1\par\nobreak
19808 \vskip 40\p@
19809 }}
19810 \def\@makeschapterhead#1{%
19811 \vspace*{50\p@}%
19812 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
19813 \normalfont
19814 \interlinepenalty\@M
19815 \Huge \bfseries #1\par\nobreak
19816 \vskip 40\p@
19817 }}
19818 \renewenvironment{thebibliography}[1]
19819 {\chapter*{\bibname}%
19820 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
19821 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19822 \bidi@thebibliography@font@hook%
19823 \list{\@biblabel{\@arabic\c@enumiv}}%
19824 {\settowidth\labelwidth{\@biblabel{#1}}%
19825 \leftmargin\labelwidth
19826 \advance\leftmargin\labelsep
19827 \openbib@code
19828 \usecounter{enumiv}%
19829 \let\p@enumiv\@empty
19830 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
19831 \sloppy
19832 \clubpenalty4000
19833 \@clubpenalty \clubpenalty
19834 \widowpenalty4000%
19835 \sfcode\.\@m}
19836 {\def\@noitemerr
19837 {\@latex@warning{Empty `thebibliography' environment}}}%
19838 \endlist}

```



## 140 File rotating-xetex-bidi.def

```

19839 \ProvidesFile{rotating-xetex-bidi.def}[2013/05/22 v0.2 bidi adaptations for rotating package]
19840 \def\end@rotfloat{%
19841   \end{minipage}\end{lrbox}%
19842   \stepcounter{r@tfl@t}%
19843   \rot@label{RF\ther@tfl@t}%
19844   \rot@pageref{RF\ther@tfl@t}{\R@@page}%
19845   \edef\@tempa{Adding sideways \capttype\space on page \R@@page\space}
19846   \rot@mess@toks\expandafter{\@tempa}
19847   \wd\rot@float@box\z@
19848   \ht\rot@float@box\z@
19849   \dp\rot@float@box\z@
19850   \vboxL to \textheight{%
19851     \setkeys{Grot}{units=360}%
19852     \if@rot@twoside
19853     \else
19854       \let\R@@page\rot@LR
19855     \fi
19856     \ifthenelse{\isodd{\R@@page}}{%
19857       \if@rot@twoside
19858         \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
19859       \fi
19860       \vfill
19861       @@line{%
19862         \hskip\rotFPtop
19863         \rotatebox{90}{\box\rot@float@box}%
19864         \hskip\rotFPbot
19865       }%
19866     }{%
19867       \if@rot@twoside
19868         \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
19869       \fi
19870       @@line{%
19871         \hskip\rotFPbot
19872         \rotatebox{-90}{\box\rot@float@box}%
19873         \hskip\rotFPtop
19874       }%
19875       \vfill
19876     }%
19877     \rot@message{\the\rot@mess@toks}
19878   }%
19879   \end@float
19880 }
19881 \let\endsidewaysfigure\end@rotfloat
19882 \let\endsidewaysstable\end@rotfloat
19883 \def\end@rotdblfloat{%
19884   \end{minipage}\end{lrbox}%
19885   \stepcounter{r@tfl@t}%
19886   \rot@label{RF\ther@tfl@t}%
19887   \rot@pageref{RF\ther@tfl@t}{\R@@page}%
19888   \edef\@tempa{Adding sideways \capttype\space on page \R@@page\space}
19889   \rot@mess@toks\expandafter{\@tempa}
19890   \@tempdima\ht\rot@float@box

```



```

19891 \advance\@tempdima by \dp\rot@float@box
19892 \wd\rot@float@box\z@
19893 \ht\rot@float@box\z@
19894 \dp\rot@float@box\z@
19895 \vboxL to \textheight{%
19896   \setkeys{Grot}{units=360}%
19897   \if@rot@twoside
19898   \else
19899     \let\R@@page\rot@LR
19900   \fi
19901   \ifthenelse{\isodd{\R@@page}}{%
19902     \ifrot@messages
19903     \if@rot@twoside
19904     \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
19905 \fi
19906   \fi
19907   \vfill
19908   \@@line{%
19909     \hskip\rotFPtop
19910     \rotatebox{90}{\box\rot@float@box}%
19911     \hskip\rotFPbot
19912   }%
19913   }{%
19914     \ifrot@messages
19915     \if@rot@twoside
19916     \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
19917 \fi
19918   \fi%
19919   \@@line{%
19920     \hskip\rotFPbot
19921     \rotatebox{-90}{\box\rot@float@box}%
19922     \hskip\rotFPtop
19923   }%
19924   \vfill
19925   }%
19926   \rot@message{\the\rot@mess@toks}%
19927 }%
19928 \end@dblfloat
19929 }
19930 \def\turn#1{%
19931   \Grot@setangle{#1}%
19932   \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19933 \def\endturn{%
19934   \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
19935   \unskip\color@endbox
19936   \Grot@x\z@
19937   \Grot@y\z@
19938   \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19939 }
19940 \def\rotate#1{%
19941   \Grot@setangle{#1}%
19942   \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19943 \def\endrotate{%
19944   \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi

```



```

19945 \unskip\color@endbox
19946 \Grot@x\z@
19947 \Grot@y\z@
19948 \wd0\z@\dp0\z@\ht0\z@
19949 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19950 }
19951 \def\turnbox#1#2{%
19952 \Grot@setangle{#1}%
19953 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi#2\ifmmode\if@RTL\endR\fi\fi}
19954 \Grot@x\z@\Grot@y\z@
19955 \wd0\z@\dp0\z@\ht0\z@
19956 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19957 }
19958 \def\sideways{%
19959 \Grot@setangle{90}%
19960 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19961 \def\endsideways{%
19962 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
19963 \unskip\color@endbox
19964 \Grot@x\z@
19965 \Grot@y\z@
19966 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19967 }

```

## 141 File scrartcl-xetex-bidi.def

```

19968 \ProvidesFile{scrartcl-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrartcl class f
19969 \newcommand{\scr@saved@LTRfootnotetext}{}
19970 \newcommand{\scr@saved@RTLfootnotetext}{}
19971 \let\scr@saved@footnotetext\@footnotetext
19972 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
19973 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
19974 \renewcommand{\@footnotetext}[1]{%
19975 \scr@saved@footnotetext{#1}%
19976 \csname FN@mfp@prepare\endcsname
19977 }
19978 \renewcommand{\@LTRfootnotetext}[1]{%
19979 \scr@saved@LTRfootnotetext{#1}%
19980 \csname FN@mfp@prepare\endcsname
19981 }
19982 \renewcommand{\@RTLfootnotetext}[1]{%
19983 \scr@saved@RTLfootnotetext{#1}%
19984 \csname FN@mfp@prepare\endcsname
19985 }
19986 \renewcommand\deffootnote[4][1]{%
19987 \expandafter\ifnum\scr@v@is@ge{3.22}\relax
19988 \long\def\@makefntext##1{%
19989 \ExecuteDoHook{footnote/text/begin}%
19990 \raggedfootnote
19991 \if@RTL
19992 \rightskip
19993 \else
19994 \leftskip
19995 \fi

```



```

19996      #2
19997      \l@addto@macro\@trivlist{%
19998          \ifnum\@listdepth=\@ne
19999              \if@RTL
20000                  \advance\rightmargin #2\relax
20001              \else
20002                  \advance\leftmargin #2\relax
20003              \fi
20004          \fi
20005      }%
20006      \parindent #3\noindent
20007      \IfArgIsEmpty{#1}{}%
20008          \hskip \dimexpr #1-#2\relax
20009      }%
20010      \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20011      \ExecuteDoHook{footnote/text/end}%
20012  }%
20013 \else
20014     \ClassInfo{\KOMAClassName}{%
20015         Using old \string\@makefnmark\space due to compatibility
20016         level\MessageBreak
20017         less than 3.22}%
20018     \long\def\@makefnmark##1{%
20019         \setlength{\@tempdimc}{#3}%
20020         \def\@tempa{#1}\ifx\@tempa\@empty
20021             \setpar{\@par
20022                 \@tempdima = \hsize
20023                 \addtolength{\@tempdima}{-#2}%
20024                 \if@RTL
20025                     \parshape \@ne \z@ \@tempdima
20026                 \else
20027                     \parshape \@ne #2 \@tempdima
20028                 \fi}%
20029         \else
20030             \addtolength{\@tempdimc}{#2}%
20031             \addtolength{\@tempdimc}{-#1}%
20032             \setpar{\@par
20033                 \@tempdima = \hsize
20034                 \addtolength{\@tempdima}{-#1}%
20035                 \@tempdimb = \hsize
20036                 \addtolength{\@tempdimb}{-#2}%
20037                 \if@RTL
20038                     \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
20039                 \else
20040                     \parshape \tw@ #1 \@tempdima #2 \@tempdimb
20041                 \fi
20042             }%
20043         \fi
20044     \par
20045     \parindent\@tempdimc\noindent
20046     \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20047 }%
20048 \fi
20049 \def\@makefnmark{\hbox{\ftn@font{#4}}}%

```





```

20050 }
20051 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
20052 \renewcommand*\left@footnoterule{%
20053   \normalsize\ftn@rule@test@values
20054   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20055   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20056   {\usekomafont{footnoterule}{%
20057     \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}}%
20058   \kern 2.6\p@}
20059 \renewcommand*\right@footnoterule{%
20060   \normalsize\ftn@rule@test@values
20061   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20062   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20063   {\usekomafont{footnoterule}{%
20064     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
20065     \kern 2.6\p@}
20066 \renewcommand*\maketitle[1][1]{%
20067   \expandafter\ifnum \csname scr@v3.12\endcsname>\scr@compatibility\relax
20068   \else
20069     \def\and{%
20070       \end{tabular}%
20071       \hskip 1em \@plus.17fil%
20072       \begin{tabular}[t]{c}%
20073     }%
20074   \fi
20075   \if@titlepage
20076     \begin{titlepage}
20077       \setcounter{page}{%
20078         #1%
20079       }%
20080     \if@titlepageiscoverpage
20081       \edef\titlename@restore{%
20082         \noexpand\endgroup
20083         \noexpand\global\noexpand\@colht\the\@colht
20084         \noexpand\global\noexpand\@colroom\the\@colroom
20085         \noexpand\global\vsizethe\vsizethe
20086         \noexpand\global\noexpand\@titlepageiscoverpagefalse
20087         \noexpand\let\noexpand\titlename@restore\noexpand\relax
20088       }%
20089       \begin{group
20090         \topmargin=\dimexpr \coverpagetopmargin-1in\relax
20091         \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
20092         \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
20093         \textwidth=\dimexpr
20094         \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
20095         \textheight=\dimexpr
20096         \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
20097         \headheight=0pt
20098         \headsep=0pt
20099         \footskip=\baselineskip
20100         \@colht=\textheight
20101         \@colroom=\textheight
20102         \vsizethe\textheight
20103         \columnwidth=\textwidth

```



```

20104         \hsize=\columnwidth
20105         \linewidth=\hsize
20106     \else
20107         \let\titlepage@restore\relax
20108     \fi
20109     \let\footnotesize\small
20110     \let\right@footnoterule\relax
20111     \let\left@footnoterule\relax
20112     \let\textwidth@footnoterule\relax
20113     \let\footnote\thanks
20114     \let\LTRfootnote\LTRthanks
20115     \let\RTLfootnote\RTLthanks
20116     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20117     \let\oldmakefnmark\makefnmark
20118     \renewcommand*{\@makefnmark}{\rlap{\oldmakefnmark}}%
20119     \ifx\extratitle\empty
20120         \ifx\frontispiece\empty
20121         \else
20122             \if@twoside\mbox{}\next@tpage\fi
20123             \noindent\@frontispiece\next@tdpage
20124         \fi
20125     \else
20126         \noindent\extratitle
20127         \ifx\frontispiece\empty
20128         \else
20129             \next@tpage
20130             \noindent\@frontispiece
20131         \fi
20132         \next@tdpage
20133     \fi
20134     \setparsizes{\z@}{\z@}{\z@ \@plus 1fil}\par@updateerelative
20135     \ifx\titlehead\empty \else
20136         \begin{minipage}[t]{\textwidth}%
20137             \usekomafont{titlehead}{\@titlehead\par}%
20138         \end{minipage}\par
20139     \fi
20140     \null\vfill
20141     \begin{center}
20142         \ifx\subject\empty \else
20143             {\usekomafont{subject}{\@subject\par}}%
20144             \vskip 3em
20145         \fi
20146         {\usekomafont{title}{\huge \@title\par}}%
20147         \vskip 1em
20148         {\ifx\subtitle\empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
20149         \vskip 2em
20150         {%
20151             \usekomafont{author}{%
20152                 \lineskip 0.75em
20153                 \begin{tabular}[t]{c}
20154                     \@author
20155                 \end{tabular}\par
20156             }%
20157         }%

```



```

20158      \vskip 1.5em
20159      {\usekomafont{date}}{\@date \par}}%
20160      \vskip \z@ \@plus3fill
20161      {\usekomafont{publishers}}{\@publishers \par}}%
20162      \vskip 3em
20163      \end{center}\par
20164      \@thanks\global\let\@thanks\@empty
20165      \vfill\null
20166      \if@twoside
20167        \@tempwattrue
20168        \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
20169        \else
20170          \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
20171            \@tempwafalse
20172          \fi\fi
20173        \fi
20174        \if@tempwa
20175          \next@tpage
20176          \begin{minipage}[t]{\textwidth}
20177            \@uppertitleback
20178          \end{minipage}\par
20179          \vfill
20180          \begin{minipage}[b]{\textwidth}
20181            \@lowertitleback
20182          \end{minipage}\par
20183          \@thanks\global\let\@thanks\@empty
20184        \fi
20185      \else
20186        \ifx\@uppertitleback\@empty\else
20187          \ClassWarning{\KOMAClassName}{%
20188            non empty \string\uppertitleback\space ignored
20189            by \string\maketitle\MessageBreak
20190            in `twoside=false' mode%
20191          }%
20192        \fi
20193        \ifx\@lowertitleback\@empty\else
20194          \ClassWarning{\KOMAClassName}{%
20195            non empty \string\lowertitleback\space ignored
20196            by \string\maketitle\MessageBreak
20197            in `twoside=false' mode%
20198          }%
20199        \fi
20200      \fi
20201      \ifx\@dedication\@empty
20202      \else
20203        \next@tdpage\null\vfill
20204        {\centering\usekomafont{dedication}}{\@dedication \par}}%
20205        \vskip \z@ \@plus3fill
20206        \@thanks\global\let\@thanks\@empty
20207        \cleardoubleemptypage
20208      \fi
20209      \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
20210    \end{titlepage}
20211  \else

```



```

20212 \par
20213 \@tempcnta=%
20214 #1%
20215 \relax\ifnum\@tempcnta=1\else
20216 \ClassWarning{\KOMAClassName}{%
20217 Optional argument of \string\maketitle\space ignored\MessageBreak
20218 in `titlepage=false' mode%
20219 }%
20220 \fi
20221 \ifx\@uppertitleback\@empty\else
20222 \ClassWarning{\KOMAClassName}{%
20223 non empty \string\uppertitleback\space ignored
20224 by \string\maketitle\MessageBreak
20225 in `titlepage=false' mode%
20226 }%
20227 \fi
20228 \ifx\@lowertitleback\@empty\else
20229 \ClassWarning{\KOMAClassName}{%
20230 non empty \string\lowertitleback\space ignored
20231 by \string\maketitle\MessageBreak
20232 in `titlepage=false' mode%
20233 }%
20234 \fi
20235 \begingroup
20236 \let\titlename\@restore\relax
20237 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20238 \let\@oldmakefnmark\@makefnmark
20239 \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
20240 \next@tdpage
20241 \if@twocolumn
20242 \ifnum \col@number=\@one
20243 \ifx\@extratitle\@empty
20244 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20245 \else
20246 \@makeextratitle
20247 \fi
20248 \ifx\@frontispiece\@empty
20249 \ifx\@extratitle\@empty\else\next@tdpage\fi
20250 \else
20251 \next@tpage
20252 \@makefrontispiece
20253 \next@tdpage
20254 \fi
20255 \@maketitle
20256 \else
20257 \ifx\@extratitle\@empty
20258 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20259 \else
20260 \twocolumn[\@makeextratitle]%
20261 \fi
20262 \ifx\@frontispiece\@empty
20263 \ifx\@extratitle\@empty\else\next@tdpage\fi
20264 \else
20265 \next@tpage

```



```

20266         \twocolumn[\@makefrontispiece]%
20267         \next@tdpage
20268     \fi
20269     \twocolumn[\@maketitle]%
20270 \fi
20271 \else
20272     \ifx\@extratitle\@empty
20273     \ifx\@frontispiece\@empty\else \mbox{}\fi
20274     \else
20275         \@makeextratitle
20276     \fi
20277     \ifx\@frontispiece\@empty
20278     \ifx\@extratitle\@empty\else\next@tdpage\fi
20279     \else
20280         \next@tpage
20281         \@makefrontispiece
20282         \next@tdpage
20283     \fi
20284     \@maketitle
20285 \fi
20286     \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
20287     \@thanks\global\let\@thanks\@empty
20288 \endgroup
20289 \fi
20290 \setcounter{footnote}{0}%
20291 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
20292     \let\thanks\relax
20293     \let\LTRthanks\relax
20294     \let\RTLthanks\relax
20295     \let\maketitle\relax
20296     \let\@maketitle\relax
20297     \global\let\@thanks\@empty
20298     \global\let\@author\@empty
20299     \global\let\@date\@empty
20300     \global\let\@title\@empty
20301     \global\let\@subtitle\@empty
20302     \global\let\@extratitle\@empty
20303     \global\let\@frontispiece\@empty
20304     \global\let\@titlehead\@empty
20305     \global\let\@subject\@empty
20306     \global\let\@publishers\@empty
20307     \global\let\@uppertitleback\@empty
20308     \global\let\@lowertitleback\@empty
20309     \global\let\@dedication\@empty
20310     \global\let\author\relax
20311     \global\let\title\relax
20312     \global\let\extratitle\relax
20313     \global\let\titlehead\relax
20314     \global\let\subject\relax
20315     \global\let\publishers\relax
20316     \global\let\uppertitleback\relax
20317     \global\let\lowertitleback\relax
20318     \global\let\dedication\relax
20319     \global\let\date\relax

```



```

20320 \fi
20321 \global\let\and\relax
20322 }%
20323 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
20324 \def\raggedpart{\if@RTL\raggedleft\else\raggedright\fi}
20325 \renewcommand*\autodot{\if@altsecnumformat@SepMark\fi}
20326 \renewcommand*{\thesubsection}{\thesection@SepMark@arabic@c@subsection}
20327 \renewcommand*{\thesubsubsection}{%
20328 \thesubsection@SepMark@arabic@c@subsubsection
20329 }
20330 \renewcommand*{\theparagraph}{\thesubsubsection@SepMark@arabic@c@paragraph}
20331 \renewcommand*{\thesubparagraph}{%
20332 \theparagraph@SepMark@arabic@c@subparagraph
20333 }
20334 \renewenvironment{thebibliography}[1]{%
20335 \if@bib@break@
20336 \bib@beginhook
20337 \else
20338 \bib@heading
20339 \ifx\bibpreamble\relax\else\ifx\bibpreamble@empty\else
20340 \noindent\bibpreamble\par\nobreak
20341 \fi\fi
20342 \bib@beginhook
20343 \bib@before@hook
20344 \fi
20345 \renewcommand{\BreakBibliography}[1]{%
20346 \@bib@break
20347 \end{thebibliography}%
20348 \begingroup ##1\endgroup
20349 \begin{thebibliography}{#1}
20350 }%
20351 \if@RTL\if@LTRbibitems@RTLfalse\else\fi\else\if@RTLbibitems@RTLtrue\else\fi\fi
20352 \bidi@thebibliography@font@hook%
20353 \list{%
20354 \@biblabel{\@arabic@c@enumiv}%
20355 }{%
20356 \settowidth\labelwidth{\@biblabel{#1}}%
20357 \leftmargin\labelwidth
20358 \advance\leftmargin\labelsep
20359 \@openbib@code
20360 \if@bib@break@
20361 \edef\@tempa{%
20362 \noexpand\usecounter{enumiv}%
20363 \noexpand\setcounter{enumiv}{\the@c@enumiv}%
20364 }\@tempa
20365 \no@bib@break
20366 \else
20367 \usecounter{enumiv}%
20368 \fi
20369 \let\p@enumiv@empty
20370 \renewcommand*{theenumiv}{\@arabic@c@enumiv}%
20371 }%
20372 \sloppy\clubpenalty4000 \widowpenalty4000
20373 \sfcode`\.\@m

```



```

20374 }{%
20375 \if@bib@break@
20376 \def\@noitemerr{%
20377 \latex@warning{%
20378 \string\BreakBibliography\space at begin of `thebibliography'
20379 environment\MessageBreak
20380 or following \string\BreakBibliography}%
20381 }%
20382 \else
20383 \def\@noitemerr{%
20384 \latex@warning{%
20385 Empty `thebibliography' environment or
20386 \string\BreakBibliography\MessageBreak
20387 before end of `thebibliography' environment}%
20388 }%
20389 \fi
20390 \endlist
20391 \if@bib@break@
20392 \else
20393 \bib@after@hook
20394 \let\bib@before@hook\@empty
20395 \let\bib@after@hook\@empty
20396 \fi
20397 \bib@endhook
20398 }
20399 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
20400 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
20401 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
20402 \renewcommand\marginline[1]{%
20403 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
20404 }
20405 \renewcommand{\@@makecaption}[3]{%
20406 \cap@margin
20407 \begingroup
20408 \ifonelinecaptions
20409 \def\stepcounter##1{\advance\value{##1}\@ne}%
20410 \let\refstepcounter\stepcounter
20411 \let\label\@gobble
20412 \let\@footnotetext=\@gobble
20413 \let\@LTRfootnotetext=\@gobble
20414 \let\@RTLfootnotetext=\@gobble
20415 \let\hypertarget\@gobbletwo
20416 \edef\@xnewline{%
20417 \unexpanded{\ClassInfo{\KOMAClassName}{%
20418 Workaround for not recommended usage of \string\\ or\MessageBreak
20419 \string\newline in caption text
20420 }%
20421 \hspace*{\linewidth}\hspace{1sp}%
20422 }%
20423 \unexpanded\expandafter{\@xnewline}%
20424 }%
20425 \edef\@xcentercr{%
20426 \unexpanded{\ClassInfo{\KOMAClassName}{%
20427 Workaround for not recommended usage of \string\\ or\MessageBreak

```



```

20428         \string\newline in caption text
20429     }%
20430     \hspace*{\linewidth}\hspace{1sp}%
20431 }%
20432 \unexpanded\expandafter{\@xcentercr}%
20433 }%
20434 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
20435 \ifdim\@tempdima>\cap@width
20436     \aftergroup\scr@makemultilinecaption
20437 \else
20438     \aftergroup\scr@makesinglelinecaption
20439 \fi
20440 \else
20441     \aftergroup\scr@makemultilinecaption
20442 \fi
20443 \endgroup
20444 {#1}{#2}{#3}%
20445 }
20446 \renewcommand{\scr@makesinglelinecaption}[3]{%
20447     {%
20448         \usefontofkomafont{caption}{%
20449             \hb@xt@{\hsize}{%
20450                 \cap@left
20451                 \if@RTL
20452                     \beginR
20453                     \fi
20454                 \scr@makesinglelinecaption{#1}{#2}{#3}%
20455                 \if@RTL
20456                     \endR
20457                 \fi
20458                 \cap@right
20459             }\par\kern\dp\strutbox%
20460             }%
20461         }\kern-\dp\strutbox
20462     }
20463 \renewcommand{\@makecaption}[2]{%
20464     \if@captionabove
20465         \vskip\belowcaptionskip
20466     \else
20467         \vskip\abovecaptionskip
20468     \fi
20469     \@makecaption\@firstofone{#1}{#2}%
20470     \if@captionabove
20471         \vskip\abovecaptionskip
20472     \else
20473         \vskip\belowcaptionskip
20474     \fi
20475 }
20476
20477 \renewcommand{\scr@makesinglelinecaption}[3]{%
20478     {\usekomafont{caption}{\strut\ignorespaces
20479         #1{\usekomafont{captionlabel}{#2\captionformat}}}%
20480         \ignorespaces #3\unskip}}%
20481 }

```





```

20482
20483 \renewcommand{\scr@makemultilinecaption}[3]{%
20484   {%
20485     \usefontofkomafont{caption}{%
20486       \hb@xt@{hsize}{%
20487         \cap@left
20488         \vbox{
20489           \hsize\cap@width\linewidth\hsize
20490           \scr@ifundefinedorrelax{@captype}{%
20491             \ClassWarning{\KOMAClassName}{%
20492               `string\caption' outside float.\MessageBreak
20493               Seems you are using `string\caption' outside a
20494               float.\MessageBreak
20495               Maybe you are using a package that uses
20496               `string\@makecaption'\MessageBreak
20497               without setting `string\@captype' before.\MessageBreak
20498               Because I cannot detect the caption type, I'm using\MessageBreak
20499               the empty one.%
20500             }%
20501             \let\@captype\@empty
20502           }{}%
20503           \scr@ifundefinedorrelax{ragged\@captype caption}{\raggedcaption}{%
20504             \@nameuse{ragged\@captype caption}%
20505           }%
20506           \ifdofullc@p
20507             \@hangfrom{%
20508               \strut
20509               \scr@smashdp{%
20510                 #1{%
20511                   \usekomafont{caption}{%
20512                     \usekomafont{captionlabel}{#2\captionformat}%
20513                   }%
20514                 }%
20515               }%
20516               {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
20517             \else
20518               \ifdim\cap@indent<\z@
20519                 \strut
20520                 #1{%
20521                   {\usekomafont{caption}{%
20522                     \usekomafont{captionlabel}{#2\captionformat}%
20523                   }%
20524                 }\par}%
20525                 \noindent{{\usekomafont{caption}{%
20526                   \hspace*{-\cap@indent}#3\scr@endstrut
20527                 }}\par}%
20528               \else
20529                 \if@capbreak
20530                   \strut
20531                   #1{%
20532                     {\usekomafont{caption}{%
20533                       \usekomafont{captionlabel}{#2\captionformat}%
20534                     }%
20535                   }\par}%

```



```

20536         \noindent\@hangfrom{\hspace*{\cap@indent}}%
20537         {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
20538     \else
20539         \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
20540         {%
20541             \hspace{-\cap@indent}%
20542             \scr@smashdp{%
20543                 #1{\usekomafont{caption}{%
20544                     \usekomafont{captionlabel}{#2\captionformat}%
20545                 }}%
20546             }%
20547         }%
20548         {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
20549     }%
20550     \fi
20551     \fi
20552     \fi
20553     }%
20554     \cap@right
20555 } \par \kern \dp \strutbox
20556 }%
20557 } \kern - \dp \strutbox
20558 }
20559
20560 \bidi@AfterFile{longtable-xetex-bidi.def}{%
20561     \if@komalongtable
20562         \renewcommand{\LT@makecaption}[3]{%
20563             \noalign{%
20564                 \if@captionabove
20565                     \vskip\belowcaptionskip
20566                 \else
20567                     \vskip\abovecaptionskip
20568                 \fi
20569             }%
20570             \LT@mcol\LT@cols c{%
20571                 \hbox to\z@{\hss\parbox[t]{\linewidth{%
20572                     \def\@capytype{table}%
20573                     \@@makecaption{#1}{#2}{#3}%
20574                     \endgraf
20575                     \if@captionabove
20576                         \vskip\abovecaptionskip
20577                     \else
20578                         \vskip\belowcaptionskip
20579                     \fi
20580                 }}%
20581                 \hss
20582             }%
20583         }%
20584     }%
20585     \renewcommand*{\scr@LT@array}{}%
20586     \let\scr@LT@array=\LT@array
20587     \renewcommand*{\LT@array}{%
20588         \let\scr@caption=\LT@caption
20589         \def\captionabove{\noalign{\global\@captionabovetrue}%

```



```

20590         \scr@caption}%
20591     \def\captionbelow{\noalign{\global\@captionabovefalse}%
20592         \scr@caption}%
20593     \if@tablecaptionabove
20594         \let\LT@caption=\captionabove
20595     \else
20596         \let\LT@caption=\captionbelow
20597     \fi
20598     \scr@LT@array
20599 }%
20600 \ClassInfo{\KOMAClassName}{%
20601     longtable captions redefined%
20602 }%
20603 \fi
20604 }
20605
20606 \CloneTOCEntryStyle{tocline}{part}
20607 \TOCEntryStyleStartInitCode{part}{%
20608     \expandafter\renewcommand%
20609     \csname scr@tso@#1@linefill\endcsname{\hfill}%
20610     \expandafter\renewcommand%
20611     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
20612     \expandafter\renewcommand%
20613     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
20614         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
20615     \expandafter\renewcommand\expandafter*%
20616     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p}%
20617 }
20618
20619 \CloneTOCEntryStyle{tocline}{section}
20620 \TOCEntryStyleStartInitCode{section}{%
20621     \expandafter\renewcommand%
20622     \csname scr@tso@#1@linefill\endcsname{%
20623         \if@sectionentrywithdots
20624             {\usekomafont{sectionentrydots}{\TOCLineLeaderFill}}\relax
20625         \else
20626             \hfill
20627         \fi
20628     }%
20629     \expandafter\renewcommand%
20630     \csname scr@tso@#1@entryformat\endcsname{\usekomafont{sectionentry}}%
20631     \expandafter\renewcommand%
20632     \csname scr@tso@#1@pagenumberformat\endcsname[1]{\usekomafont{sectionentry}{\usekomafont{
20633     \expandafter\renewcommand\expandafter*%
20634     \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p}%
20635 }
20636
20637 \CloneTOCEntryStyle{tocline}{subsection}
20638 \TOCEntryStyleStartInitCode{subsection}{%
20639     \expandafter\renewcommand%
20640     \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
20641     \expandafter\renewcommand%
20642     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
20643         {\normalfont\normalcolor ##1}}%

```



```

20644 }
20645
20646 \CloneTOCEntryStyle{subsection}{default}
20647
20648 \DeclareSectionCommand[%
20649   style=section,%
20650   level=1,%
20651   indent=\z@,%
20652   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
20653   afterskip=2.3ex \@plus .2ex,%
20654   tocstyle=section,%
20655   tocindent=0pt,%
20656   tocnumwidth=1.5em%
20657 ]{section}
20658 \DeclareSectionCommand[%
20659   style=part,%
20660   level=\z@,%
20661   tocstyle=part,%
20662   toplevel=\m@ne,%
20663   tocindent=\z@,%
20664   tocnumwidth=2em%
20665 ]{part}
20666 \DeclareSectionCommand[%
20667   style=section,%
20668   level=2,%
20669   indent=\z@,%
20670   beforeskip=-3.25ex \@plus -1ex \@minus -.2ex,%
20671   afterskip=1.5ex \@plus .2ex,%
20672   tocstyle=subsection,%
20673   tocindent=1.5em,%
20674   tocnumwidth=2.3em%
20675 ]{subsection}
20676 \DeclareSectionCommand[%
20677   style=section,%
20678   level=3,%
20679   indent=\z@,%
20680   beforeskip=-3.25ex \@plus -1ex \@minus -.2ex,%
20681   afterskip=1.5ex \@plus .2ex,%
20682   tocstyle=subsection,%
20683   tocindent=3.8em,%
20684   tocnumwidth=3.2em%
20685 ]{subsubsection}
20686 \DeclareSectionCommand[%
20687   style=section,%
20688   level=4,%
20689   indent=\z@,%
20690   beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
20691   afterskip=-1em,%
20692   tocstyle=subsection,%
20693   tocindentfollows=subsubsection,%
20694   tocindent=7.0em,%
20695   tocnumwidth=4.1em%
20696 ]{paragraph}
20697 \DeclareSectionCommand[%

```



```

20698 style=section,%
20699 level=5,%
20700 indent=\scr@parindent,%
20701 beforeskip=3.25ex \@plus1ex \@minus .2ex,%
20702 afterskip=-1em,%
20703 tocstyle=subsection,%
20704 tocindent=10em,%
20705 tocnumwidth=5em%
20706 ]{subparagraph}

```

## 142 File scrbook-xetex-bidi.def

```

20707 \ProvidesFile{scrbook-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrbook class for
20708 \newcommand{\scr@saved@LTRfootnotetext}{}
20709 \newcommand{\scr@saved@RTLfootnotetext}{}
20710 \let\scr@saved@footnotetext\@footnotetext
20711 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
20712 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
20713 \renewcommand{\@footnotetext}[1]{%
20714   \scr@saved@footnotetext{#1}%
20715   \csname FN@mfb@prepare\endcsname
20716 }
20717 \renewcommand{\@LTRfootnotetext}[1]{%
20718   \scr@saved@LTRfootnotetext{#1}%
20719   \csname FN@mfb@prepare\endcsname
20720 }
20721 \renewcommand{\@RTLfootnotetext}[1]{%
20722   \scr@saved@RTLfootnotetext{#1}%
20723   \csname FN@mfb@prepare\endcsname
20724 }
20725 \renewcommand\deffootnote[4][1]{%
20726   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
20727     \long\def\@makefntext##1{%
20728       \ExecuteDoHook{footnote/text/begin}%
20729       \raggedfootnote
20730       \ifRTL
20731         \rightskip
20732       \else
20733         \leftskip
20734       \fi
20735       #2
20736       \l@addto@macro\@trivlist{%
20737         \ifnum\@listdepth=\@ne\advance
20738           \ifRTL
20739             \rightmargin #2\relax
20740           \else
20741             \leftmargin #2\relax
20742           \fi
20743         \fi
20744       }%
20745       \parindent #3\noindent
20746       \IfArgIsEmpty{#1}{}{%
20747         \hspace \dimexpr #1-#2\relax
20748       }%

```



```

20749 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20750 \ExecuteDoHook{footnote/text/end}%
20751 }%
20752 \else
20753 \ClassInfo{\KOMAClassName}{%
20754 Using old \string\@makefnmark\space due to compatibility
20755 level\MessageBreak
20756 less than 3.22}%
20757 \long\def\@makefnmark##1{%
20758 \setlength{\@tempdimc}{#3}%
20759 \def\@tempa{#1}\ifx\@tempa\@empty
20760 \setpar{\@par
20761 \@tempdima = \hsize
20762 \addtolength{\@tempdima}{-#2}%
20763 \if@RTL
20764 \parshape \@ne \z@ \@tempdima
20765 \else
20766 \parshape \@ne #2 \@tempdima
20767 \fi
20768 }%
20769 \else
20770 \addtolength{\@tempdimc}{#2}%
20771 \addtolength{\@tempdimc}{-#1}%
20772 \setpar{\@par
20773 \@tempdima = \hsize
20774 \addtolength{\@tempdima}{-#1}%
20775 \@tempdimb = \hsize
20776 \addtolength{\@tempdimb}{-#2}%
20777 \if@RTL
20778 \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
20779 \else
20780 \parshape \tw@ #1 \@tempdima #2 \@tempdimb
20781 \fi
20782 }%
20783 \fi
20784 \par
20785 \parindent\@tempdimc\noindent
20786 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20787 }%
20788 \fi
20789 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
20790 }
20791 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
20792 \renewcommand*\left@footnoterule{%
20793 \normalsize\ftn@rule@test@values
20794 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20795 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20796 {\usekomafont{footnoterule}{%
20797 \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
20798 \kern 2.6\p@}
20799 \renewcommand*\right@footnoterule{%
20800 \normalsize\ftn@rule@test@values
20801 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20802 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi

```



```

20803 {\usekomafont{footnoterule}}{%
20804     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\
20805     \kern 2.6\p@}
20806 \renewcommand*\maketitle[1][1]{%
20807     \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
20808     \else
20809         \def\and{%
20810             \end{tabular}%
20811             \hskip 1em \@plus.17fil%
20812             \begin{tabular}[t]{c}%
20813         }%
20814     \fi
20815     \if@titlepage
20816         \begin{titlepage}
20817             \setcounter{page}{%
20818                 #1%
20819             }%
20820             \if@titlepageiscoverpage
20821                 \edef\tITLEPAGE@restore{%
20822                     \noexpand\endgroup
20823                     \noexpand\global\noexpand\@colht\the\@colht
20824                     \noexpand\global\noexpand\@colroom\the\@colroom
20825                     \noexpand\global\vsizethe\vsizethe
20826                     \noexpand\global\noexpand\@titlepageiscoverpagefalse
20827                     \noexpand\let\noexpand\tITLEPAGE@restore\noexpand\relax
20828                 }%
20829                 \begin{group}
20830                     \topmargin=\dimexpr \coverpagetopmargin-1in\relax
20831                     \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
20832                     \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
20833                     \textwidth=\dimexpr
20834                     \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
20835                     \textheight=\dimexpr
20836                     \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
20837                     \headheight=0pt
20838                     \headsep=0pt
20839                     \footskip=\baselineskip
20840                     \@colht=\textheight
20841                     \@colroom=\textheight
20842                     \vsizethe\textheight
20843                     \columnwidth=\textwidth
20844                     \hsize=\columnwidth
20845                     \linewidth=\hsize
20846                 \else
20847                     \let\tITLEPAGE@restore\relax
20848                 \fi
20849                 \let\footnotesize\small
20850                 \let\right@footnoterule\relax
20851                 \let\left@footnoterule\relax
20852                 \let\textwidth@footnoterule\relax
20853                 \let\footnote\thanks
20854                 \let\LTRfootnote\LTRthanks
20855                 \let\RTLfootnote\RTLthanks
20856                 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%

```



```

20857 \let\@oldmakefnmark\@makefnmark
20858 \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
20859 \ifx\@extratitle\@empty
20860 \ifx\@frontispiece\@empty
20861 \else
20862 \if@twoside\mbox{}\next@tpage\fi
20863 \noindent\@frontispiece\next@tdpage
20864 \fi
20865 \else
20866 \noindent\@extratitle
20867 \ifx\@frontispiece\@empty
20868 \else
20869 \next@tpage
20870 \noindent\@frontispiece
20871 \fi
20872 \next@tdpage
20873 \fi
20874 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
20875 \ifx\@titlehead\@empty \else
20876 \begin{minipage}[t]{\textwidth}%
20877 \usekomafont{titlehead}{\@titlehead\par}%
20878 \end{minipage}\par
20879 \fi
20880 \null\vfill
20881 \begin{center}
20882 \ifx\@subject\@empty \else
20883 {\usekomafont{subject}{\@subject\par}}%
20884 \vskip 3em
20885 \fi
20886 {\usekomafont{title}{\huge \@title\par}}%
20887 \vskip 1em
20888 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
20889 \vskip 2em
20890 {%
20891 \usekomafont{author}{%
20892 \lineskip 0.75em
20893 \begin{tabular}[t]{c}
20894 \@author
20895 \end{tabular}\par
20896 }%
20897 }%
20898 \vskip 1.5em
20899 {\usekomafont{date}{\@date \par}}%
20900 \vskip \z@ \@plus3fill
20901 {\usekomafont{publishers}{\@publishers \par}}%
20902 \vskip 3em
20903 \end{center}\par
20904 \@thanks\global\let\@thanks\@empty
20905 \vfill\null
20906 \if@twoside
20907 \@tempwattrue
20908 \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
20909 \else
20910 \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty

```





```

20911         \@tempswafalse
20912     \fi\fi
20913 \fi
20914 \if@tempswa
20915     \next@tpage
20916     \begin{minipage}[t]{\textwidth}
20917         \@uppertitleback
20918     \end{minipage}\par
20919     \vfill
20920     \begin{minipage}[b]{\textwidth}
20921         \@lowertitleback
20922     \end{minipage}\par
20923     \@thanks\global\let\@thanks\@empty
20924 \fi
20925 \else
20926     \ifx\@uppertitleback\@empty\else
20927         \ClassWarning{\KOMAClassName}{%
20928             non empty \string\uppertitleback\space ignored
20929             by \string\maketitle\MessageBreak
20930             in `twoside=false' mode%
20931         }%
20932     \fi
20933     \ifx\@lowertitleback\@empty\else
20934         \ClassWarning{\KOMAClassName}{%
20935             non empty \string\lowertitleback\space ignored
20936             by \string\maketitle\MessageBreak
20937             in `twoside=false' mode%
20938         }%
20939     \fi
20940 \fi
20941 \ifx\@dedication\@empty
20942 \else
20943     \next@tdpage\null\vfill
20944     {\centering\usekomafont{dedication}{\@dedication \par}}%
20945     \vskip \z@ \@plus3fill
20946     \@thanks\global\let\@thanks\@empty
20947     \cleardoubleemptypage
20948 \fi
20949 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
20950 \end{titlepage}
20951 \else
20952     \par
20953     \@tempcnta=%
20954     #1%
20955     \relax\ifnum\@tempcnta=1\else
20956         \ClassWarning{\KOMAClassName}{%
20957             Optional argument of \string\maketitle\space ignored\MessageBreak
20958             in `titlepage=false' mode%
20959         }%
20960     \fi
20961     \ifx\@uppertitleback\@empty\else
20962         \ClassWarning{\KOMAClassName}{%
20963             non empty \string\uppertitleback\space ignored
20964             by \string\maketitle\MessageBreak

```



```

20965         in `titlepage=false' mode%
20966     }%
20967 \fi
20968 \ifx\@lowertitleback\@empty\else
20969     \ClassWarning{\KOMAClassName}{%
20970         non empty \string\lowertitleback\space ignored
20971         by \string\maketitle\MessageBreak
20972         in `titlepage=false' mode%
20973     }%
20974 \fi
20975 \beginngroup
20976     \let\titlepage@restore\relax
20977     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20978     \let\@oldmakefnmark\@makefnmark
20979     \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
20980     \next@tdpage
20981 \if@twocolumn
20982     \ifnum \col@number=\@one
20983         \ifx\@extratitle\@empty
20984             \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20985         \else
20986             \@makeextratitle
20987         \fi
20988         \ifx\@frontispiece\@empty
20989             \ifx\@extratitle\@empty\else\next@tdpage\fi
20990         \else
20991             \next@tpage
20992             \@makefrontispiece
20993             \next@tdpage
20994         \fi
20995         \@maketitle
20996     \else
20997         \ifx\@extratitle\@empty
20998             \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20999         \else
21000             \twocolumn[\@makeextratitle]%
21001         \fi
21002         \ifx\@frontispiece\@empty
21003             \ifx\@extratitle\@empty\else\next@tdpage\fi
21004         \else
21005             \next@tpage
21006             \twocolumn[\@makefrontispiece]%
21007             \next@tdpage
21008         \fi
21009         \twocolumn[\@maketitle]%
21010     \fi
21011 \else
21012     \ifx\@extratitle\@empty
21013         \ifx\@frontispiece\@empty\else \mbox{}\fi
21014     \else
21015         \@makeextratitle
21016     \fi
21017     \ifx\@frontispiece\@empty
21018         \ifx\@extratitle\@empty\else\next@tdpage\fi

```



```

21019         \else
21020         \next@tpage
21021         \@makefrontispiece
21022         \next@tdpage
21023         \fi
21024         \@maketitle
21025         \fi
21026         \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
21027         \@thanks\global\let\@thanks\@empty
21028     \endgroup
21029 \fi
21030 \setcounter{footnote}{0}%
21031 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21032     \let\thanks\relax
21033     \let\LTRthanks\relax
21034     \let\RTLthanks\relax
21035     \let\maketitle\relax
21036     \let\@maketitle\relax
21037     \global\let\@thanks\@empty
21038     \global\let\@author\@empty
21039     \global\let\@date\@empty
21040     \global\let\@title\@empty
21041     \global\let\@subtitle\@empty
21042     \global\let\@extratitle\@empty
21043     \global\let\@frontispiece\@empty
21044     \global\let\@titlehead\@empty
21045     \global\let\@subject\@empty
21046     \global\let\@publishers\@empty
21047     \global\let\@uppertitleback\@empty
21048     \global\let\@lowertitleback\@empty
21049     \global\let\@dedication\@empty
21050     \global\let\author\relax
21051     \global\let\title\relax
21052     \global\let\extratitle\relax
21053     \global\let\titlehead\relax
21054     \global\let\subject\relax
21055     \global\let\publishers\relax
21056     \global\let\uppertitleback\relax
21057     \global\let\lowertitleback\relax
21058     \global\let\dedication\relax
21059     \global\let\date\relax
21060 \fi
21061 \global\let\and\relax
21062 }%
21063 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
21064 \renewcommand*{\autodot}{\if@altsecnumformat\@SepMark\fi}
21065 \renewcommand*{\thesection}{%
21066     \expandafter\ifnum\scr@v@is@gt{2.97d}%
21067         \if@mainmatter\thechapter\@SepMark\fi
21068     \else
21069         \thechapter\@SepMark%
21070     \fi
21071     \@arabic\c@section
21072 }

```



```

21073 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@section}
21074 \renewcommand*{\thesubsubsection}{%
21075   \thesubsection\@SepMark\@arabic\c@subsubsection
21076 }
21077 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
21078 \renewcommand*{\thesubparagraph}{%
21079   \theparagraph\@SepMark\@arabic\c@subparagraph
21080 }
21081 \expandafter\ifnum\scr@v@is@le{2.97d}%
21082   \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
21083 \fi
21084 \expandafter\ifnum\scr@v@is@le{2.97d}%
21085   \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
21086 \fi
21087 \renewcommand*{\theequation}{%
21088   \expandafter\ifnum\scr@v@is@gt{2.97d}%
21089     \if@mainmatter\thechapter\@SepMark\fi
21090   \else
21091     \thechapter\@SepMark%
21092   \fi
21093   \@arabic\c@equation
21094 }
21095 \renewenvironment{thebibliography}[1]{%
21096   \if@bib@break@
21097     \bib@beginhook
21098   \else
21099     \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
21100       \setchapterpreamble{\bibpreamble}%
21101     \fi\fi
21102     \bib@heading
21103     \bib@beginhook
21104     \bib@before@hook
21105   \fi
21106   \renewcommand{\BreakBibliography}[1]{%
21107     \@bib@break
21108     \end{thebibliography}%
21109     \begingroup ##1\endgroup
21110     \begin{thebibliography}{#1}
21111   }%
21112   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21113   \bidi@thebibliography@font@hook%
21114   \list{%
21115     \@biblabel{\@arabic\c@enumiv}%
21116   }{%
21117     \settowidth\labelwidth{\@biblabel{#1}}%
21118     \leftmargin\labelwidth
21119     \advance\leftmargin\labelsep
21120     \@openbib@code
21121     \if@bib@break@
21122       \edef\@tempa{%
21123         \noexpand\usecounter{enumiv}%
21124         \noexpand\setcounter{enumiv}{\the\c@enumiv}%
21125       }\@tempa
21126     \no@bib@break

```



```

21127 \else
21128 \usecounter{enumiv}%
21129 \fi
21130 \let\p@enumiv\@empty
21131 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
21132 }%
21133 \sloppy\clubpenalty4000 \widowpenalty4000
21134 \sfcode`\.\=\@m
21135 }{%
21136 \if@bib@break@
21137 \def\@noitemerr{%
21138 \@latex@warning{%
21139 \string\BreakBibliography\space at begin of `thebibliography'
21140 environment\MessageBreak
21141 or following \string\BreakBibliography}%
21142 }%
21143 \else
21144 \def\@noitemerr{%
21145 \@latex@warning{%
21146 Empty `thebibliography' environment or
21147 \string\BreakBibliography\MessageBreak
21148 before end of `thebibliography' environment}%
21149 }%
21150 \fi
21151 \endlist
21152 \if@bib@break@
21153 \else
21154 \bib@after@hook
21155 \let\bib@before@hook\@empty
21156 \let\bib@after@hook\@empty
21157 \fi
21158 \bib@endhook
21159 }
21160 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
21161 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
21162 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
21163 \renewcommand\marginline[1]{%
21164 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
21165 }
21166 \renewcommand{\@makecaption}[3]{%
21167 \cap@margin
21168 \begingroup
21169 \ifonelinecaptions
21170 \def\stepcounter##1{\advance\value{##1}\@ne}%
21171 \let\refstepcounter\stepcounter
21172 \let\label\@gobble
21173 \let\@footnotetext=\@gobble
21174 \let\@LTRfootnotetext=\@gobble
21175 \let\@RTLfootnotetext=\@gobble
21176 \let\hypertarget\@gobbletwo
21177 \edef\xnewline{%
21178 \unexpanded{\ClassInfo{\KOMAClassName}}{%
21179 Workaround for not recommended usage of \string\\ or\MessageBreak
21180 \string\newline in caption text

```



```

21181         }%
21182         \hspace*{\linewidth}\hspace{1sp}%
21183     }%
21184     \unexpanded\expandafter{\@xnewline}%
21185 }%
21186 \edef\@xcentercr{%
21187     \unexpanded{\ClassInfo{\KOMAClassName}{%
21188         Workaround for not recommended usage of \string\\ or\MessageBreak
21189         \string\newline in caption text
21190     }}%
21191     \hspace*{\linewidth}\hspace{1sp}%
21192 }%
21193 \unexpanded\expandafter{\@xcentercr}%
21194 }%
21195 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
21196 \ifdim\@tempdima>\cap@width
21197     \aftergroup\scr@makemultilinecaption
21198 \else
21199     \aftergroup\scr@makesinglelinecaption
21200 \fi
21201 \else
21202     \aftergroup\scr@makemultilinecaption
21203 \fi
21204 \endgroup
21205 {#1}{#2}{#3}%
21206 }
21207 \renewcommand{\scr@makesinglelinecaption}[3]{%
21208     {%
21209         \usefontofkomafont{caption}{%
21210             \hb@xt@{\hsize{%
21211                 \cap@left
21212                 \if@RTL
21213                     \beginR
21214                     \fi
21215                 \scr@makesinglelinecaption{#1}{#2}{#3}%
21216                 \if@RTL
21217                     \endR
21218                 \fi
21219                 \cap@right
21220             }}\par\kern\dp\strutbox%
21221         }%
21222     }\kern-\dp\strutbox
21223 }
21224 \renewcommand{\@makecaption}[2]{%
21225     \if@captionabove
21226         \vskip\belowcaptionskip
21227     \else
21228         \vskip\abovecaptionskip
21229     \fi
21230     \@makecaption\@firstofone{#1}{#2}%
21231     \if@captionabove
21232         \vskip\abovecaptionskip
21233     \else
21234         \vskip\belowcaptionskip

```



```

21235 \fi
21236 }
21237
21238 \renewcommand{\scr@makesinglelinecaption}[3]{%
21239   {\usekomafont{caption}{\strut\ignorespaces
21240     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
21241     \ignorespaces #3\unskip}}%
21242 }
21243
21244 \renewcommand{\scr@makemultilinecaption}[3]{%
21245   {%
21246     \usefontofkomafont{caption}{%
21247       \hb@xt@{hsize}{%
21248         \cap@left
21249         \vbox{hsize\cap@width\linewidthhsize
21250           \scr@ifundefinedorrelax{@captype}{%
21251             \ClassWarning{KOMAClassName}{%
21252               `string\caption' outside float.\MessageBreak
21253               Seems you are using `string\caption' outside a
21254               float.\MessageBreak
21255               Maybe you are using a package that uses
21256               `string\makecaption'\MessageBreak
21257               without setting `string\@captype' before.\MessageBreak
21258               Because I cannot detect the caption type, I'm using\MessageBreak
21259               the empty one.%
21260             }%
21261             \let\@captype\@empty
21262           }{}%
21263           \scr@ifundefinedorrelax{ragged\@captype}{\raggedcaption}{%
21264             \@nameuse{ragged\@captype}{caption}%
21265           }%
21266           \ifdofullc@p
21267             \@hangfrom{%
21268               \strut
21269               \scr@smashdp{%
21270                 #1{%
21271                   \usekomafont{caption}{%
21272                     \usekomafont{captionlabel}{#2\captionformat}%
21273                   }%
21274                 }%
21275               }%
21276             }%
21277             {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21278           \else
21279             \ifdim\cap@indent<\z@
21280               \strut
21281               #1{%
21282                 {\usekomafont{caption}{%
21283                   \usekomafont{captionlabel}{#2\captionformat}%
21284                 }%
21285               }\par}%
21286             \noindent{{\usekomafont{caption}{%
21287               \hspace*{-\cap@indent}#3\scr@endstrut
21288             }}\par}%

```



```

21289         \else
21290             \if@capbreak
21291                 \strut
21292                 #1{%
21293                     {\usekomafont{caption}{%
21294                         \usekomafont{captionlabel}{#2\captionformat}}%
21295                     }
21296                 }\par}%
21297             \noindent\@hangfrom{\hspace*{\cap@indent}}%
21298             {\{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21299         \else
21300             \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
21301             {%
21302                 \hspace{-\cap@indent}%
21303                 \scr@smashdp{%
21304                     #1{\usekomafont{caption}{%
21305                         \usekomafont{captionlabel}{#2\captionformat}}%
21306                     }%
21307                 }%
21308             }%
21309             {\{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21310         }%
21311     \fi
21312 \fi
21313 \fi
21314 }%
21315 \cap@right
21316 }\par\kern\dp\strutbox
21317 }%
21318 }\kern-\dp\strutbox
21319 }
21320
21321
21322 \bidi@AfterFile{longtable-xetex-bidi.def}{%
21323     \if@komalongtable
21324         \renewcommand{\LT@makecaption}[3]{%
21325             \noalign{%
21326                 \if@captionabove
21327                     \vskip\belowcaptionskip
21328                 \else
21329                     \vskip\abovecaptionskip
21330                 \fi
21331             }%
21332             \LT@mcol\LT@cols c{%
21333                 \hbox to\z@{\hss\parbox[t]{\linewidth{%
21334                     \def\@capytype{table}%
21335                     \@@makecaption{#1}{#2}{#3}%
21336                     \endgraf
21337                     \if@captionabove
21338                         \vskip\abovecaptionskip
21339                     \else
21340                         \vskip\belowcaptionskip
21341                     \fi
21342                 }}%

```





```

21343         \hss
21344     }%
21345 }%
21346 }%
21347 \renewcommand*{\scr@LT@array}{}%
21348 \let\scr@LT@array=\LT@array
21349 \renewcommand*{\LT@array}{%
21350     \let\scr@caption=\LT@caption
21351     \def\captionabove{\noalign{\global\@captionabovetrue}%
21352         \scr@caption}%
21353     \def\captionbelow{\noalign{\global\@captionabovefalse}%
21354         \scr@caption}%
21355     \if@tablecaptionabove
21356         \let\LT@caption=\captionabove
21357     \else
21358         \let\LT@caption=\captionbelow
21359     \fi
21360     \scr@LT@array
21361 }%
21362 \ClassInfo{\KOMAClassName}{%
21363     longtable captions redefined%
21364 }%
21365 \fi
21366 }
21367
21368 \CloneTOCEntryStyle{tocline}{part}
21369 \TOCEntryStyleStartInitCode{part}{%
21370     \expandafter\renewcommand%
21371     \csname scr@tso@#1@linefill\endcsname{\hfill}%
21372     \expandafter\renewcommand%
21373     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
21374     \expandafter\renewcommand%
21375     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21376         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
21377     \expandafter\renewcommand\expandafter*%
21378     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p}%
21379 }
21380
21381 \CloneTOCEntryStyle{tocline}{chapter}
21382 \TOCEntryStyleStartInitCode{chapter}{%
21383     \expandafter\renewcommand%
21384     \csname scr@tso@#1@linefill\endcsname{%
21385         \if@chapterentrywithdots
21386             {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
21387         \else
21388             \hfill
21389         \fi
21390     }%
21391     \expandafter\renewcommand%
21392     \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
21393     \expandafter\renewcommand%
21394     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21395         {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
21396     \expandafter\renewcommand\expandafter*%

```



```

21397 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
21398 }
21399
21400 \CloneTOCEntryStyle{tocline}{section}
21401 \TOCEntryStyleStartInitCode{section}{%
21402   \expandafter\renewcommand%
21403   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
21404   \expandafter\renewcommand%
21405   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21406     {\normalfont\normalcolor ##1}}%
21407 }
21408
21409 \CloneTOCEntryStyle{section}{default}
21410
21411 \DeclareSectionCommand[%
21412   style=chapter,%
21413   level=\z@,%
21414   pagestyle=plain,%
21415   tocstyle=chapter,%
21416   tocindent=\z@,%
21417   tocnumwidth=1.5em%
21418 ]{chapter}
21419 \DeclareSectionCommand[%
21420   style=section,%
21421   level=1,%
21422   indent=\z@,%
21423   beforekip=-3.5ex \@plus -1ex \@minus -.2ex,%
21424   afterskip=2.3ex \@plus .2ex,%
21425   tocstyle=section,%
21426   tocindentfollows=chapter,%
21427   tocindent=1.5em,%
21428   tocnumwidth=2.3em%
21429 ]{section}
21430 \DeclareSectionCommand[%
21431   style=part,%
21432   level=\m@ne,%
21433   pagestyle=plain,%
21434   tocstyle=part,%
21435   toplevel=\m@ne,%
21436   tocindent=\z@,%
21437   tocnumwidth=2em%
21438 ]{part}
21439 \DeclareSectionCommand[%
21440   style=section,%
21441   level=2,%
21442   indent=\z@,%
21443   beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
21444   afterskip=1.5ex \@plus .2ex,%
21445   tocstyle=section,%
21446   tocindent=3.8em,%
21447   tocnumwidth=3.2em%
21448 ]{subsection}
21449 \DeclareSectionCommand[%
21450   style=section,%

```



```

21451 level=3,%
21452 indent=\z@,%
21453 beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
21454 afterskip=1.5ex \@plus .2ex,%
21455 tocstyle=section,%
21456 tocindent=7.0em,%
21457 tocnumwidth=4.1em%
21458 ]{subsubsection}
21459 \DeclareSectionCommand[%
21460 style=section,%
21461 level=4,%
21462 indent=\z@,%
21463 beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
21464 afterskip=-1em,%
21465 tocindentfollows=subsubsection,%
21466 tocstyle=section,%
21467 tocindent=10em,%
21468 tocnumwidth=5em%
21469 ]{paragraph}
21470 \DeclareSectionCommand[%
21471 style=section,%
21472 level=5,%
21473 indent=\scr@parindent,%
21474 beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
21475 afterskip=-1em,%
21476 tocstyle=section,%
21477 tocindent=12em,%
21478 tocnumwidth=6em%
21479 ]{subparagraph}

```

## 143 File `scrreprt-xetex-bidi.def`

```

21480 \ProvidesFile{scrreprt-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrreprt class f
21481 \newcommand{\scr@saved@LTRfootnotetext}{}
21482 \newcommand{\scr@saved@RTLfootnotetext}{}
21483 \let\scr@saved@footnotetext\@footnotetext
21484 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
21485 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
21486 \renewcommand{\@footnotetext}[1]{%
21487   \scr@saved@footnotetext{#1}%
21488   \csname FN@mfb@prepare\endcsname
21489 }
21490 \renewcommand{\@LTRfootnotetext}[1]{%
21491   \scr@saved@LTRfootnotetext{#1}%
21492   \csname FN@mfb@prepare\endcsname
21493 }
21494 \renewcommand{\@RTLfootnotetext}[1]{%
21495   \scr@saved@RTLfootnotetext{#1}%
21496   \csname FN@mfb@prepare\endcsname
21497 }
21498 \renewcommand\deffootnote[4][]{%
21499   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
21500     \long\def\@makefntext##1{%
21501       \ExecuteDoHook{footnote/text/begin}%

```



```

21502 \raggedfootnote
21503 \if@RTL
21504 \rightskip
21505 \else
21506 \leftskip
21507 \fi
21508 #2
21509 \l@addto@macro\@trivlist{%
21510 \ifnum\@listdepth=\@one
21511 \if@RTL
21512 \advance\rightmargin #2\relax
21513 \else
21514 \advance\leftmargin #2\relax
21515 \fi
21516 \fi
21517 }%
21518 \parindent #3\noindent
21519 \IfArgIsEmpty{#1}{}%
21520 \hskip \dimexpr #1-#2\relax
21521 }%
21522 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21523 \ExecuteDoHook{footnote/text/end}%
21524 }%
21525 \else
21526 \ClassInfo{\KOMAClassName}{%
21527 Using old \string\@makefnmark\space due to compatibility
21528 level\MessageBreak
21529 less than 3.22}%
21530 \long\def\@makefnmark##1{%
21531 \setlength{\@tempdimc}{#3}%
21532 \def\@tempa{#1}\ifx\@tempa\@empty
21533 \setpar{\@par
21534 \@tempdima = \hsize
21535 \addtolength{\@tempdima}{-#2}%
21536 \if@RTL
21537 \parshape \@one \z@ \@tempdima
21538 \else
21539 \parshape \@one #2 \@tempdima
21540 \fi
21541 }%
21542 \else
21543 \addtolength{\@tempdimc}{#2}%
21544 \addtolength{\@tempdimc}{-#1}%
21545 \setpar{\@par
21546 \@tempdima = \hsize
21547 \addtolength{\@tempdima}{-#1}%
21548 \@tempdimb = \hsize
21549 \addtolength{\@tempdimb}{-#2}%
21550 \if@RTL
21551 \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
21552 \else
21553 \parshape \tw@ #1 \@tempdima #2 \@tempdimb
21554 \fi
21555 }%

```



```

21556 \fi
21557 \par
21558 \parindent\@tempdimc\noindent
21559 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21560 }%
21561 \fi
21562 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
21563 }
21564 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
21565 \renewcommand*\left@footnoterule{%
21566 \normalsize\ftn@rule@test@values
21567 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21568 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21569 {\usekomafont{footnoterule}{%
21570 \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
21571 \kern 2.6\p@}
21572 \renewcommand*\right@footnoterule{%
21573 \normalsize\ftn@rule@test@values
21574 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21575 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21576 {\usekomafont{footnoterule}{%
21577 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
21578 \kern 2.6\p@}
21579 \renewcommand*\maketitle[1][1]{%
21580 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21581 \else
21582 \def\and{%
21583 \end{tabular}%
21584 \hskip 1em \@plus.17fil%
21585 \begin{tabular}[t]{c}%
21586 }%
21587 \fi
21588 \if@titlepage
21589 \begin{titlepage}
21590 \setcounter{page}{%
21591 #1%
21592 }%
21593 \if@titlepageiscoverpage
21594 \edef\tITLEPAGE@restore{%
21595 \noexpand\endgroup
21596 \noexpand\global\noexpand\@colht\the\@colht
21597 \noexpand\global\noexpand\@colroom\the\@colroom
21598 \noexpand\global\vsizethe\vsizethe
21599 \noexpand\global\noexpand\@titlepageiscoverpagefalse
21600 \noexpand\let\noexpand\tITLEPAGE@restore\noexpand\relax
21601 }%
21602 \begingroup
21603 \topmargin=\dimexpr \coverpagetopmargin-1in\relax
21604 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
21605 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
21606 \textwidth=\dimexpr
21607 \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
21608 \textheight=\dimexpr
21609 \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax

```



```

21610      \headheight=0pt
21611      \headsep=0pt
21612      \footskip=\baselineskip
21613      \@colht=\textheight
21614      \@colroom=\textheight
21615      \vsize=\textheight
21616      \columnwidth=\textwidth
21617      \hsize=\columnwidth
21618      \linewidth=\hsize
21619      \else
21620      \let\tITLEPAGE@restore\relax
21621      \fi
21622      \let\footnotesize\small
21623      \let\right@footnoterule\relax
21624      \let\left@footnoterule\relax
21625      \let\textwidth@footnoterule\relax
21626      \let\footnote\thanks
21627      \let\LTRfootnote\LTRthanks
21628      \let\RTLfootnote\RTLthanks
21629      \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21630      \let\@oldmakefnmark\@makefnmark
21631      \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
21632      \ifx\@extratitle\@empty
21633      \ifx\@frontispiece\@empty
21634      \else
21635      \if@twoside\mbox{}\next@tpage\fi
21636      \noindent\@frontispiece\next@tdpage
21637      \fi
21638      \else
21639      \noindent\@extratitle
21640      \ifx\@frontispiece\@empty
21641      \else
21642      \next@tpage
21643      \noindent\@frontispiece
21644      \fi
21645      \next@tdpage
21646      \fi
21647      \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
21648      \ifx\@titlehead\@empty \else
21649      \begin{minipage}[t]{\textwidth}%
21650      \usekomafont{titlehead}{\@titlehead\par}%
21651      \end{minipage}\par
21652      \fi
21653      \null\vfill
21654      \begin{center}
21655      \ifx\@subject\@empty \else
21656      {\usekomafont{subject}{\@subject\par}}%
21657      \vskip 3em
21658      \fi
21659      {\usekomafont{title}{\huge \@title\par}}%
21660      \vskip 1em
21661      {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
21662      \vskip 2em
21663      {%

```



```

21664         \usekomafont{author}{%
21665             \lineskip 0.75em
21666             \begin{tabular}[t]{c}
21667                 \@author
21668             \end{tabular}\par
21669         }%
21670     }%
21671     \vskip 1.5em
21672     {\usekomafont{date}{\@date \par}}%
21673     \vskip \z@ \@plus3fill
21674     {\usekomafont{publishers}{\@publishers \par}}%
21675     \vskip 3em
21676 \end{center}\par
21677 \@thanks\global\let\@thanks\@empty
21678 \vfill\null
21679 \if@twoside
21680     \@tempswatrue
21681     \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
21682     \else
21683         \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
21684             \@tempswafalse
21685         \fi\fi
21686     \fi
21687     \if@tempswa
21688         \next@tpage
21689         \begin{minipage}[t]{\textwidth}
21690             \@uppertitleback
21691         \end{minipage}\par
21692         \vfill
21693         \begin{minipage}[b]{\textwidth}
21694             \@lowertitleback
21695         \end{minipage}\par
21696         \@thanks\global\let\@thanks\@empty
21697     \fi
21698 \else
21699     \ifx\@uppertitleback\@empty\else
21700         \ClassWarning{KOMAClassName}{%
21701             non empty \string\uppertitleback\space ignored
21702             by \string\maketitle\MessageBreak
21703             in `twoside=false' mode%
21704         }%
21705     \fi
21706     \ifx\@lowertitleback\@empty\else
21707         \ClassWarning{KOMAClassName}{%
21708             non empty \string\lowertitleback\space ignored
21709             by \string\maketitle\MessageBreak
21710             in `twoside=false' mode%
21711         }%
21712     \fi
21713 \fi
21714 \ifx\@dedication\@empty
21715 \else
21716     \next@tdpage\null\vfill
21717     {\centering\usekomafont{dedication}{\@dedication \par}}%

```



```

21718      \vskip \z@ \@plus3fill
21719      \@thanks\global\let\@thanks\@empty
21720      \cleardoubleemptypage
21721      \fi
21722      \ifx\tITLEPAGE@restore\relax\else\clearpage\tITLEPAGE@restore\fi
21723    \end{titlepage}
21724  \else
21725    \par
21726    \@tempcnta=%
21727    #1%
21728    \relax\ifnum\@tempcnta=1\else
21729      \ClassWarning{\KOMAClassName}{%
21730        Optional argument of \string\maketitle\space ignored\MessageBreak
21731        in `titlepage=false' mode%
21732      }%
21733    \fi
21734    \ifx\@uppertitleback\@empty\else
21735      \ClassWarning{\KOMAClassName}{%
21736        non empty \string\uppertitleback\space ignored
21737        by \string\maketitle\MessageBreak
21738        in `titlepage=false' mode%
21739      }%
21740    \fi
21741    \ifx\@lowertitleback\@empty\else
21742      \ClassWarning{\KOMAClassName}{%
21743        non empty \string\lowertitleback\space ignored
21744        by \string\maketitle\MessageBreak
21745        in `titlepage=false' mode%
21746      }%
21747    \fi
21748    \begingroup
21749      \let\tITLEPAGE@restore\relax
21750      \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21751      \let\@oldmakefnmark\@makefnmark
21752      \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
21753      \next@tdpage
21754      \if@twocolumn
21755        \ifnum \col@number=\@one
21756          \ifx\@extratitle\@empty
21757            \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21758          \else
21759            \@makeextratitle
21760          \fi
21761          \ifx\@frontispiece\@empty
21762            \ifx\@extratitle\@empty\else\next@tdpage\fi
21763          \else
21764            \next@tpage
21765            \@makefrontispiece
21766            \next@tdpage
21767          \fi
21768          \@maketitle
21769        \else
21770          \ifx\@extratitle\@empty
21771            \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi

```





```

21772         \else
21773             \twocolumn[\@makeextratitle]%
21774         \fi
21775         \ifx\@frontispiece\@empty
21776             \ifx\@extratitle\@empty\else\next@tdpage\fi
21777         \else
21778             \next@tpage
21779             \twocolumn[\@makefrontispiece]%
21780             \next@tdpage
21781         \fi
21782         \twocolumn[\@maketitle]%
21783     \fi
21784 \else
21785     \ifx\@extratitle\@empty
21786         \ifx\@frontispiece\@empty\else \mbox{}\fi
21787     \else
21788         \@makeextratitle
21789     \fi
21790     \ifx\@frontispiece\@empty
21791         \ifx\@extratitle\@empty\else\next@tdpage\fi
21792     \else
21793         \next@tpage
21794         \@makefrontispiece
21795         \next@tdpage
21796     \fi
21797     \@maketitle
21798 \fi
21799 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
21800 \@thanks\global\let\@thanks\@empty
21801 \endgroup
21802 \fi
21803 \setcounter{footnote}{0}%
21804 \expandafter\ifnum \cscname scr@v@3.12\endcsname>\scr@compatibility\relax
21805     \let\thanks\relax
21806     \let\LTRthanks\relax
21807     \let\RTLthanks\relax
21808     \let\maketitle\relax
21809     \let\@maketitle\relax
21810     \global\let\@thanks\@empty
21811     \global\let\@author\@empty
21812     \global\let\@date\@empty
21813     \global\let\@title\@empty
21814     \global\let\@subtitle\@empty
21815     \global\let\@extratitle\@empty
21816     \global\let\@frontispiece\@empty
21817     \global\let\@titlehead\@empty
21818     \global\let\@subject\@empty
21819     \global\let\@publishers\@empty
21820     \global\let\@uppertitleback\@empty
21821     \global\let\@lowertitleback\@empty
21822     \global\let\@dedication\@empty
21823     \global\let\author\relax
21824     \global\let\title\relax
21825     \global\let\extratitle\relax

```



```

21826 \global\let\titlehead\relax
21827 \global\let\subject\relax
21828 \global\let\publishers\relax
21829 \global\let\uppertitleback\relax
21830 \global\let\lowertitleback\relax
21831 \global\let\dedication\relax
21832 \global\let\date\relax
21833 \fi
21834 \global\let\and\relax
21835 }%
21836 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
21837 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
21838 \renewcommand*\thesection{%
21839 \thechapter\@SepMark%
21840 \@arabic\c@section
21841 }
21842 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
21843 \renewcommand*{\thesubsubsection}{%
21844 \thesubsection\@SepMark\@arabic\c@subsubsection
21845 }
21846 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
21847 \renewcommand*{\thesubparagraph}{%
21848 \theparagraph\@SepMark\@arabic\c@subparagraph
21849 }
21850 \expandafter\ifnum\scr@v@is@le{2.97d}%
21851 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
21852 \fi
21853 \expandafter\ifnum\scr@v@is@le{2.97d}%
21854 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
21855 \fi
21856 \renewcommand*\theequation{%
21857 \thechapter\@SepMark%
21858 \@arabic\c@equation
21859 }
21860 \renewenvironment{thebibliography}[1]{%
21861 \if@bib@break@
21862 \bib@beginhook
21863 \else
21864 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
21865 \setchapterpreamble{\bibpreamble}%
21866 \fi\fi
21867 \bib@heading
21868 \bib@beginhook
21869 \bib@before@hook
21870 \fi
21871 \renewcommand{\BreakBibliography}[1]{%
21872 \@bib@break
21873 \end{thebibliography}%
21874 \begingroup ##1\endgroup
21875 \begin{thebibliography}{#1}
21876 }%
21877 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21878 \bidi@thebibliography@font@hook%
21879 \list{%

```



```

21880 \biblabel{\@arabic\c@enumiv}%
21881 }{%
21882 \settowidth\labelwidth{\@biblabel{#1}}%
21883 \leftmargin\labelwidth
21884 \advance\leftmargin\labelsep
21885 \@openbib@code
21886 \if@bib@break@
21887 \edef\@tempa{%
21888 \noexpand\usecounter{enumiv}%
21889 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
21890 }\@tempa
21891 \no@bib@break
21892 \else
21893 \usecounter{enumiv}%
21894 \fi
21895 \let\p@enumiv\@empty
21896 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
21897 }%
21898 \sloppy\clubpenalty4000 \widowpenalty4000
21899 \sfcode`\.\=\@m
21900 }{%
21901 \if@bib@break@
21902 \def\@noitemerr{%
21903 \@latex@warning{%
21904 \string\BreakBibliography\space at begin of `thebibliography'
21905 environment\MessageBreak
21906 or following \string\BreakBibliography}%
21907 }%
21908 \else
21909 \def\@noitemerr{%
21910 \@latex@warning{%
21911 Empty `thebibliography' environment or
21912 \string\BreakBibliography\MessageBreak
21913 before end of `thebibliography' environment}%
21914 }%
21915 \fi
21916 \endlist
21917 \if@bib@break@
21918 \else
21919 \bib@after@hook
21920 \let\bib@before@hook\@empty
21921 \let\bib@after@hook\@empty
21922 \fi
21923 \bib@endhook
21924 }
21925 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
21926 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
21927 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
21928 \renewcommand\marginline[1]{%
21929 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\fi}
21930 }
21931 \renewcommand{\@makecaption}[3]{%
21932 \cap@margin
21933 \begingroup

```



```

21934 \ifonelinecaptions
21935 \def\stepcounter##1{\advance\value{##1}\@ne}%
21936 \let\refstepcounter\stepcounter
21937 \let\label\@gobble
21938 \let\@footnotetext=\@gobble
21939 \let\@LTRfootnotetext=\@gobble
21940 \let\@RTLfootnotetext=\@gobble
21941 \let\hypertarget\@gobbletwo
21942 \edef\xnewline{%
21943   \unexpanded{\ClassInfo{\KOMAClassName}{%
21944     Workaround for not recommended usage of \string\\ or\MessageBreak
21945     \string\newline in caption text
21946   }}%
21947   \hspace*{\linewidth}\hspace{1sp}%
21948 }%
21949 \unexpanded\expandafter{\xnewline}%
21950 }%
21951 \edef\xcentercr{%
21952   \unexpanded{\ClassInfo{\KOMAClassName}{%
21953     Workaround for not recommended usage of \string\\ or\MessageBreak
21954     \string\newline in caption text
21955   }}%
21956   \hspace*{\linewidth}\hspace{1sp}%
21957 }%
21958 \unexpanded\expandafter{\xcentercr}%
21959 }%
21960 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
21961 \ifdim\@tempdima>\cap@width
21962   \aftergroup\scr@makemultilinecaption
21963 \else
21964   \aftergroup\scr@makesinglelinecaption
21965 \fi
21966 \else
21967   \aftergroup\scr@makemultilinecaption
21968 \fi
21969 \endgroup
21970 {#1}{#2}{#3}%
21971 }
21972 \renewcommand{\scr@makesinglelinecaption}[3]{%
21973   {%
21974     \usefontofkomafont{caption}{%
21975       \hb@xt@{\hsize{%
21976         \cap@left
21977         \if@RTL
21978           \beginR
21979           \fi
21980         \scr@makesinglelinecaption{#1}{#2}{#3}%
21981         \if@RTL
21982           \endR
21983         \fi
21984         \cap@right
21985       }}\par\kern\dp\strutbox%
21986     }%
21987   }\kern-\dp\strutbox

```



```

21988 }
21989 \renewcommand{\@makecaption}[2]{%
21990   \if@captionabove
21991     \vskip\belowcaptionskip
21992   \else
21993     \vskip\abovecaptionskip
21994   \fi
21995   \@makecaption\@firstofone{#1}{#2}%
21996   \if@captionabove
21997     \vskip\abovecaptionskip
21998   \else
21999     \vskip\belowcaptionskip
22000   \fi
22001 }
22002
22003 \renewcommand{\scr@makesinglelinecaption}[3]{%
22004   {\usekomafont{caption}{\strut\ignorespaces
22005     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
22006     \ignorespaces #3\unskip}}%
22007 }
22008
22009 \renewcommand{\scr@makemultilinecaption}[3]{%
22010   {%
22011     \usefontofkomafont{caption}{%
22012       \hb@xt@\hsize{%
22013         \cap@left
22014         \vbox{\hsize\cap@width\linewidth\hsize
22015           \scr@ifundefinedorrelax{@captype}{%
22016             \ClassWarning{KOMAClassName}{%
22017               `string\caption' outside float.\MessageBreak
22018               Seems you are using `string\caption' outside a
22019               float.\MessageBreak
22020               Maybe you are using a package that uses
22021               `string\@makecaption'\MessageBreak
22022               without setting `string\@captype' before.\MessageBreak
22023               Because I cannot detect the caption type, I'm using\MessageBreak
22024               the empty one.%
22025             }%
22026             \let\@captype\@empty
22027           }{}%
22028           \scr@ifundefinedorrelax{ragged\@captype caption}{\raggedcaption}{%
22029             \@nameuse{ragged\@captype caption}%
22030           }%
22031           \ifdofullc@p
22032             \@hangfrom{%
22033               \strut
22034               \scr@smashdp{%
22035                 #1{%
22036                   \usekomafont{caption}{%
22037                     \usekomafont{captionlabel}{#2\captionformat}%
22038                   }%
22039                 }%
22040               }%
22041             }%

```



```

22042         {\usekomafont{caption}{#3\scr@endstrut}}\par}%
22043     \else
22044         \ifdim\cap@indent<\z@
22045             \strut
22046             #1{%
22047                 {\usekomafont{caption}{%
22048                     \usekomafont{captionlabel}{#2\captionformat}%
22049                 }}%
22050             }\par}%
22051         \noindent{\usekomafont{caption}{%
22052             \hspace*{-\cap@indent}#3\scr@endstrut
22053         }}\par}%
22054     \else
22055         \if@capbreak
22056             \strut
22057             #1{%
22058                 {\usekomafont{caption}{%
22059                     \usekomafont{captionlabel}{#2\captionformat}%
22060                 }}%
22061             }\par}%
22062         \noindent\@hangfrom{\hspace*{\cap@indent}}%
22063         {\usekomafont{caption}{#3\scr@endstrut}}\par}%
22064     \else
22065         \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
22066         {%
22067             \hspace{-\cap@indent}%
22068             \scr@smashdp{%
22069                 #1{\usekomafont{caption}{%
22070                     \usekomafont{captionlabel}{#2\captionformat}%
22071                 }}%
22072             }%
22073         }%
22074         {\usekomafont{caption}{#3\scr@endstrut}}\par}%
22075     }%
22076     \fi
22077     \fi
22078     \fi
22079 }%
22080     \cap@right
22081 }\par\kern\dp\strutbox
22082 }%
22083 }\kern-\dp\strutbox
22084 }
22085
22086
22087 \bidi@AfterFile{longtable-xetex-bidi.def}{%
22088     \if@komalongtable
22089         \renewcommand{\LT@makecaption}[3]{%
22090             \noalign{%
22091                 \if@captionabove
22092                     \vskip\belowcaptionskip
22093                 \else
22094                     \vskip\abovecaptionskip
22095                 \fi

```



```

22096 }%
22097 \LT@mccl\LT@cols c{%
22098 \hbox to\z@{\hss\parbox[t]{\linewidth{%
22099 \def\@capytype{table}%
22100 \@makecaption{#1}{#2}{#3}%
22101 \endgraf
22102 \if@captionabove
22103 \vskip\abovecaptionskip
22104 \else
22105 \vskip\belowcaptionskip
22106 \fi
22107 }%
22108 \hss
22109 }%
22110 }%
22111 }%
22112 \renewcommand*\scr@LT@array}{}%
22113 \let\scr@LT@array=\LT@array
22114 \renewcommand*\LT@array{%
22115 \let\scr@caption=\LT@caption
22116 \def\captionabove{\noalign{\global\@captionabovetrue}%
22117 \scr@caption}%
22118 \def\captionbelow{\noalign{\global\@captionabovetrue}%
22119 \scr@caption}%
22120 \if@tablecaptionabove
22121 \let\LT@caption=\captionabove
22122 \else
22123 \let\LT@caption=\captionbelow
22124 \fi
22125 \scr@LT@array
22126 }%
22127 \ClassInfo{\KOMAClassName}{%
22128 longtable captions redefined%
22129 }%
22130 \fi
22131 }
22132
22133 \CloneTOCEntryStyle{tocline}{part}
22134 \TOCEntryStyleStartInitCode{part}{%
22135 \expandafter\renewcommand%
22136 \csname scr@tso@#1@linefill\endcsname{\hfill}%
22137 \expandafter\renewcommand%
22138 \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22139 \expandafter\renewcommand%
22140 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22141 {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
22142 \expandafter\renewcommand\expandafter*%
22143 \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
22144 }
22145
22146 \CloneTOCEntryStyle{tocline}{chapter}
22147 \TOCEntryStyleStartInitCode{chapter}{%
22148 \expandafter\renewcommand%
22149 \csname scr@tso@#1@linefill\endcsname{%

```



```

22150 \if@chapterentrywithdots
22151 {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
22152 \else
22153 \hfill
22154 \fi
22155 }%
22156 \expandafter\renewcommand%
22157 \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
22158 \expandafter\renewcommand%
22159 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22160 {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
22161 \expandafter\renewcommand\expandafter*%
22162 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
22163 }
22164
22165 \CloneTOCEntryStyle{tocline}{section}
22166 \TOCEntryStyleStartInitCode{section}{%
22167 \expandafter\renewcommand%
22168 \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22169 \expandafter\renewcommand%
22170 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22171 {\normalfont\normalcolor ##1}}%
22172 }
22173
22174 \CloneTOCEntryStyle{section}{default}
22175
22176 \DeclareSectionCommand[%
22177 style=chapter,%
22178 level=\z@,%
22179 pagestyle=plain,%
22180 tocstyle=chapter,%
22181 tocindent=\z@,%
22182 tocnumwidth=1.5em%
22183 ]{chapter}
22184 \DeclareSectionCommand[%
22185 style=section,%
22186 level=1,%
22187 indent=\z@,%
22188 beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
22189 afterskip=2.3ex \@plus.2ex,%
22190 tocstyle=section,%
22191 tocindentfollows=chapter,%
22192 tocindent=1.5em,%
22193 tocnumwidth=2.3em%
22194 ]{section}
22195 \DeclareSectionCommand[%
22196 style=part,%
22197 level=\m@ne,%
22198 pagestyle=plain,%
22199 tocstyle=part,%
22200 toclevel=\m@ne,%
22201 tocindent=\z@,%
22202 tocnumwidth=2em%
22203 ]{part}

```





```

22204 \DeclareSectionCommand[%
22205   style=section,%
22206   level=2,%
22207   indent=\z@,%
22208   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
22209   afterskip=1.5ex \@plus .2ex,%
22210   tocstyle=section,%
22211   tocindent=3.8em,%
22212   tocnumwidth=3.2em%
22213 ]{subsection}
22214 \DeclareSectionCommand[%
22215   style=section,%
22216   level=3,%
22217   indent=\z@,%
22218   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
22219   afterskip=1.5ex \@plus .2ex,%
22220   tocstyle=section,%
22221   tocindent=7.0em,%
22222   tocnumwidth=4.1em%
22223 ]{subsubsection}
22224 \DeclareSectionCommand[%
22225   style=section,%
22226   level=4,%
22227   indent=\z@,%
22228   beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
22229   afterskip=-1em,%
22230   tocindentfollows=subsubsection,%
22231   tocstyle=section,%
22232   tocindent=10em,%
22233   tocnumwidth=5em%
22234 ]{paragraph}
22235 \DeclareSectionCommand[%
22236   style=section,%
22237   level=5,%
22238   indent=\scr@parindent,%
22239   beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
22240   afterskip=-1em,%
22241   tocstyle=section,%
22242   tocindent=12em,%
22243   tocnumwidth=6em%
22244 ]{subparagraph}

```

## 144 File sidecap-xetex-bidi.def

```

22245 \ProvidesFile{sidecap-xetex-bidi.def}[2010/08/01 v0.1 bidi adaptations for sidecap package f
22246 \renewcommand*{\SC@FLOAT}[2]{\if@RTL%
22247   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2} {\#2}\hspace{\sidecaptionsep}{#1}}\else%
22248 \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1} {\#1}\hspace{\sidecaptionsep}{#2}}\fi}
22249 \renewcommand*{\SC@justify@caption}{\if@RTL%
22250 \isSC@ODD{\RaggedLeft}{\RaggedRight}\else%
22251   \isSC@ODD{\RaggedRight}{\RaggedLeft}\fi}

```

## 145 File soul-xetex-bidi.def



```

22252 \ProvidesFile{soul-xetex-bidi.def}[2015/10/16 v0.1 bidi adaptations for soul package for XeT
22253 \long\def\SOUL@start#1{%
22254   \let\bid@RTL@everypar\@empty
22255   \let\<\SOUL@lowerthan
22256   \let\>\empty
22257   \def\soulomit{\noexpand\soulomit}%
22258   \gdef\SOUL@eventuallyexhyphen##1{%
22259     \let\SOUL@soeventuallyskip\relax
22260     \SOUL@spaceskip=\fontdimen\tw@\font\@plus\fontdimen\thr@@\font
22261       \@minus\fontdimen4\font
22262     \SOUL@ignorespacesfalse
22263     \leavevmode
22264     \SOUL@preamble
22265     \SOUL@lasttoken={}
22266     \SOUL@word={}
22267     \SOUL@minus\z@
22268     \SOUL@comma\z@
22269     \SOUL@apo\z@
22270     \SOUL@grave\z@
22271     \SOUL@do{#1}%
22272     \SOUL@postamble
22273 }
22274 \def\SOUL@ulunderline#1{%
22275   \setbox\z@\hbox{#1}%
22276   \dimen@=\wd\z@
22277   \dimen@i=\SOUL@uloverlap
22278   \advance\dimen@2\dimen@i
22279   \if@RTL
22280     \unhcopy\z@
22281     \llap{%
22282       \null
22283       \kern-\dimen@i
22284       \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
22285     }
22286   \else
22287     \rlap{%
22288       \null
22289       \kern-\dimen@i
22290       \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
22291     }
22292     \unhcopy\z@
22293   \fi
22294 }
22295 \def\bid@SOUL@ulleaders{%
22296   \leaders\hb@xt@0.1pt{\hss\SOUL@ulcolor{\vrule\@depth\SOUL@uldp\@height\SOUL@ulht}\hss}\r
22297 }
22298 \def\SOUL@uleveryspace#1{%
22299   \if@RTL
22300     #1%
22301     \bid@SOUL@ulleaders
22302     \hskip\spaceskip
22303   \else
22304     \SOUL@ulcolor{%
22305       #1%

```



```

22306      \SOUL@ulleaders
22307      \hskip\spaceskip
22308    }%
22309    \fi
22310    \null
22311 }

```

## 146 File stabular-xetex-bidi.def

```

22312 \ProvidesFile{stabular-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for stabular package]
22313 \def\@stabular{%
22314   \leavevmode \bgroup \if@RTLtab\beginR \fi
22315   \let\@acol\@tabacol
22316   \let\@classz\@tabclassz
22317   \let\@classiv\@tabclassiv \let\\\@tabularcrr\@stabarray}
22318 \def\endstabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
22319   \egroup \if@RTLtab\endR\fi\egroup}
22320 \expandafter \let \csname endstabular*\endcsname = \endstabular
22321 \def\@sarray[#1]#2{%
22322   \bgroup
22323   \setbox\@arstrutbox\hbox{%
22324     \vrule \@height\arraystretch\ht\strutbox
22325     \@depth\arraystretch\dp\strutbox
22326     \@width\z@}%
22327   \mkpream{#2}%
22328   \edef\@preamble{%
22329     \ialign \noexpand\@halignto
22330       \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
22331   \let\@startpbox\@startpbox \let\@endpbox\@endpbox
22332   \let\@tabularnewline\\%
22333   \let\@sharp##%
22334   \set@typeset@protect
22335   \lineskip\z@skip\baselineskip\z@skip
22336   \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\top \else \vbox \fi\bgroup\fi
22337   \@preamble}

```

## 147 File subfigure-xetex-bidi.def

```

22338 \ProvidesFile{subfigure-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for subfigure package]
22339 \AtBeginDocument{%
22340   \let\p@subfigure=\thefigure
22341   \let\p@subtable=\thetable%
22342 }

```

## 148 File tabs-xetex-bidi.def

```

22343 \ProvidesFile{tabs-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for tabs package for XeTeX]
22344 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
22345
22346 \expandafter\let\csname endtabular*\endcsname=\endtabular
22347
22348 \def\endarray{\ifvmode\csname crr\endcsname % just do \crr if \ given
22349   \else \[\z@ \global\advance\@arstddepth-\@otarlinesep]%
22350   \fi\egroup\if@RTLtab\egroup\endR\egroup\fi\@unrecurse\egroup}

```



```

22351
22352 \def\@array[#1]#2{% remember global variables to allow recursion:
22353 \edef\@unrecurse{\global\@skip@bove\the\@skip@bove
22354 \global\@arstheight\the\@arstheight\global\@arstdepth\the\@arstdepth}%
22355 \let\@otarlinesep\@tarlinesep \global\@skip@bove-\@otarlinesep
22356 \ifx\@classz\@arrayclassz \let\@tarlinesep\arraylinesep
22357 \else \let\@tarlinesep\tablinesep \fi
22358 \divide\@tarlinesep\tw@ % half sep is applied to height & depth
22359 \let\@seesize\relax \let\@rememsize\relax \mkpream{#2}%
22360 \@tempdima\arraystretch\ht\strutbox \@tempdimb\arraystretch\dp\strutbox
22361 \ifdim\@tarlinesep>\z@ % (need \protect for \multicolumn)
22362 \def\@rememsize{\protect\@r@m@msize}\let\@seesize\@s@size
22363 \advance\@tempdima-\@tarlinesep \advance\@tempdimb-\@tarlinesep
22364 \fi \setbox\@arstrutbox\hbox{% set up smaller strut
22365 \vrule \@height\@tempdima \@depth\@tempdimb \@width\z@}%
22366 \let\protect\noexpand
22367 \edef\@preamble{\ialign \noexpand\@halignto \bgroup
22368 \unhcopy\@arstrutbox \@preamble \tabskip\z@skip &\@sharp \cr}%
22369 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
22370 \if#1t\top \else \if#1b\box \else \vcenter \fi\fi
22371 \bgroup \let\par\empty
22372 \global\@arstheight\ht\@arstrutbox \global\@arstdepth\dp\@arstrutbox
22373 \advance\extrarulesep.5\arrayrulewidth
22374 \let\@sharp##\let\protect\relax \lineskip\z@skip \baselineskip\z@skip
22375 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if#1t\top \else \box \fi\bgroup\fi
22376 \@preamble}

```

## 149 File tabularx-xetex-bidi.def

```

22377 \ProvidesFile{tabularx-xetex-bidi.def}[2014/11/08 v0.1 bidi adaptations for tabularx package]
22378 \def\TX@endtabularx{%
22379 \expandafter\expandafter\expandafter
22380 \TX@find@endtabularxa\csize end\TX@endcsname
22381 \endtabularx\TX@endtabularx\TX@find@endtabularxa
22382 \expandafter\TX@newcol\expandafter{\tabularxcolumn{\TX@col@width}}}%
22383 \let\verb\TX@verb
22384 \def\@elt##1{\global\value{##1}\the\value{##1}\relax}%
22385 \edef\TX@ckpt{\cl@ckpt}%
22386 \let\@elt\relax
22387 \TX@old@table\maxdimen
22388 \TX@col@width\TX@target
22389 \global\TX@cols\@ne
22390 \TX@typeout@
22391 {\@spaces Table Width\@spaces Column Width\@spaces X Columns}%
22392 \TX@trial{\def\NC@rewriteX{%
22393 \global\advance\TX@cols\@ne\NC@find p{\TX@col@width}}}%
22394 \loop
22395 \TX@arith
22396 \ifTX@
22397 \TX@trial}%
22398 \repeat
22399 {\let\@footnotetext\TX@fntext\let\@xfootnotenext\TX@xftntext
22400 \let\@LTRfootnotetext\TX@LTRfntext\let\@xLTRfootnotenext\TX@xLTRfntext
22401 \let\@RTLfootnotetext\TX@RTLfntext\let\@xRTLfootnotenext\TX@xRTLfntext

```



```

22402 \csname tabular*\expandafter\endcsname\expandafter\TX@target
22403 \the\toks@
22404 \csname endtabular*\endcsname}%
22405 \global\TX@ftn\expandafter{\expandafter}\the\TX@ftn
22406 \ifnum0={\fi}%
22407 \expandafter\expandafter\expandafter
22408 \TX@find@endtabularxbb
22409 \expandafter\end\expandafter{\TX@}%
22410 \endtabularx\TX@\endtabularx\TX@find@endtabularxb
22411 }
22412
22413 \def\TX@trial#1{%
22414 \setbox\@tempboxa\hbox{%
22415 #1\relax
22416 \let\@footnotetext\TX@trial@ftn
22417 \let\@LTRfootnotetext\TX@trial@ftn
22418 \let\@RTLfootnotetext\TX@trial@ftn
22419 \let\TX@vwarn\@empty
22420 \expandafter\let\expandafter\tabularx\csname tabular*\endcsname
22421 \expandafter\let\expandafter\endtabularx\csname endtabular*\endcsname
22422 \def\write{\begingroup
22423 \def\let{\afterassignment\endgroup\toks@}%
22424 \afterassignment\let\count@}%
22425 \hbadness\@M
22426 \hfuzz\maxdimen
22427 \let\hbadness\@tempcnta
22428 \let\hfuzz\@tempdima
22429 \expandafter\tabular\the\toks@
22430 \endtabular}%
22431 \TX@ckpt
22432 \TX@typeout@{\@spaces
22433 \expandafter\TX@align
22434 \the\wd\@tempboxa\space\space\space\space\space\@@
22435 \expandafter\TX@align
22436 \the\TX@col@width\space\space\space\space\space\@@
22437 \@spaces\the\TX@cols}}
22438
22439 \long\def\TX@LTRftntext#1{%
22440 \edef\@tempa{\the\TX@ftn\noexpand\LTRfootnotetext
22441 [\the\csname c@\@mpfn\endcsname]}}%
22442 \global\TX@ftn\expandafter{\@tempa{#1}}}%
22443 \long\def\TX@xLTRftntext[#1]#2{%
22444 \global\TX@ftn\expandafter{\the\TX@ftn\LTRfootnotetext[#1]{#2}}}
22445
22446 \long\def\TX@RTLftntext#1{%
22447 \edef\@tempa{\the\TX@ftn\noexpand\RTLfootnotetext
22448 [\the\csname c@\@mpfn\endcsname]}}%
22449 \global\TX@ftn\expandafter{\@tempa{#1}}}%
22450 \long\def\TX@xRTLftntext[#1]#2{%
22451 \global\TX@ftn\expandafter{\the\TX@ftn\RTLfootnotetext[#1]{#2}}}

```

## 150 File tabulary-xetex-bidi.def

22452 \ProvidesFile{tabulary-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tabulary package]



```

22453 \def\@testpach{\@chclass
22454 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
22455 \ifnum \@lastchclass=7 5 \else
22456 \ifnum \@lastchclass=8 \tw@ \else
22457 \ifnum \@lastchclass=9 \thr@@
22458 \else \z@
22459 \ifnum \@lastchclass = 10 \else
22460 \edef\@nextchar{\expandafter\string\@nextchar}%
22461 \@chnum
22462 \if \@nextchar c\z@ \else
22463 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
22464 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
22465 \if \@nextchar C7 \else
22466 \if \@nextchar L8 \else
22467 \if \@nextchar R9 \else
22468 \if \@nextchar J10 \else
22469 \z@ \@chclass
22470 \if\@nextchar |\@ne \else
22471 \if \@nextchar !6 \else
22472 \if \@nextchar @7 \else
22473 \if \@nextchar <8 \else
22474 \if \@nextchar >9 \else
22475 10
22476 \@chnum
22477 \if \@nextchar m\thr@@\else
22478 \if \@nextchar p4 \else
22479 \if \@nextchar b5 \else
22480 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi \fi \fi
22481 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}

```

## 151 File tc-xetex-bidi.def

```

22482 \ProvidesFile{tc-xetex-bidi.def}[2014/07/08 v0.1 bidi adaptations for Clipping driver for Xe
22483 \def\@cliptoboxdim#1{%
22484 \setbox#1=\hbox{%
22485 \Gin@defaultbp\WIDTH{\wd#1}%
22486 \Gin@defaultbp\DEPTH{\dp#1}%
22487 \@tempdima\ht#1%
22488 \advance\@tempdima\dp#1%
22489 \Gin@defaultbp\TOTALHEIGHT{\@tempdima}%
22490 \beginL\special{pdf:bcontent }%
22491 \special{%
22492 pdf:literal direct
22493 0 -\DEPTH\space \WIDTH\space \TOTALHEIGHT\space re
22494 }%
22495 \special{pdf:literal direct W }%
22496 \special{pdf:literal direct n }%
22497 \if@RTL\beginR\fi\box#1\if@RTL\endR\fi%
22498 \special{pdf:econtent }\endL%
22499 }%
22500 }

```

## 152 File tcolorbox-xetex-bidi.def



```

22501 \ProvidesFile{tcolorbox-xetex-bidi.def}[2018/11/11 v0.2 bidi adaptations for tcolorbox packa
22502 \let\endtcbox@lrbox=\endminipage
22503 \let\endtcbox@savebox=\endtcbox@lrbox
22504
22505 \bidi@patchcmd{\tcbox@vbox}{%
22506   \let\@footnotetext\@mpfootnotetext%
22507 }{%
22508   \let\@footnotetext\@mpfootnotetext%
22509   \let\@LTRfootnotetext\@mpLTRfootnotetext%
22510   \let\@RTLfootnotetext\@mpRTLfootnotetext%
22511 }{}{}
22512
22513 \bidi@patchcmd{\endtcbox@vbox}{%
22514   \footnoterule%
22515 }{%
22516   \bidi@mpfootnoterule%
22517 }{}{}
22518 \bidi@apptocmd{\tcbox@icolorbox{%
22519   \@bidi@list@minipage@parboxfalse
22520 }{}{}

```

## 153 File titlesec-xetex-bidi.def

```

22521 \ProvidesFile{titlesec-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for titlesec package
22522 \renewcommand\filright{%
22523   \gdef\ttl@filleft##1{\hskip##1}%
22524   \gdef\ttl@filright##1{\hfill}%
22525   \let\\\@centercr
22526   \advance\rightskip\z@ \@plus 1fil
22527   \parfillskip\z@}
22528 \def\ttlh@hang#1#2#3#4#5#6#7#8{%
22529   \gdef\ttl@makeline##1{\ttl@calc\hspace{#6}##1\ttl@calc\hspace{#7}}%
22530   \setlength\leftskip{#6}%
22531   \setlength\rightskip{#7}%
22532   \interlinepenalty\@M
22533   \ttl@changecentercr
22534   \ttl@beginlongest
22535   #1{\ifhmode\ttl@hmode@error\fi
22536     \ttl@glcmds
22537     \parindent\z@
22538     \leavevmode
22539     \begingroup
22540     \ifttl@label
22541       \sbox\z@{#2\strut\ttl@calc\hspace{#3}}%
22542       \if@RTL\advance\rightskip\wd\z@else\advance\leftskip\wd\z@\fi
22543       \llap{\box\z@}%
22544       \fi
22545       #4{#8}%
22546       \kern\z@\strut\@par
22547     \endgroup
22548     \nobreak\ttl@midlongest#5\@par}%
22549   \ttl@endlongest}

```



## 154 File titletoc-xetex-bidi.def

```

22550 \ProvidesFile{titletoc-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for titletoc package]
22551 \renewcommand\filright{%
22552   \gdef\ttl@filleft##1{\hskip##1}%
22553   \gdef\ttl@filright##1{\hfill}%
22554   \let\\\@centercr
22555   \advance\rightskip\z@ \@plus 1fil
22556   \parfillskip\z@}
22557 \renewcommand\contentspush[1]{%
22558   \sbox\z@{##1}%
22559   \xdef\ttl@b{\advance\if@RTL\rightskip\else\leftskip\fi\the\wd\z@}%
22560   \aftergroup\ttl@b
22561   \leavevmode\llap{\box\z@}}
22562 \def\ttl@outnoblock#1#2#3{%
22563   \begingroup
22564   \ifnum\ttl@b>\ttl@a
22565     \nobreak
22566   \else\ifnum\ttl@b<\ttl@a
22567     \addpenalty{\@secpenalty}%
22568   \else
22569     \addpenalty{\z@}%
22570   \fi\fi
22571   \ttl@contentsstretch
22572   \nobreak
22573   \ifcase#1\relax\else\interlinepenalty\@M\fi
22574   \parindent\z@
22575   \ifx\@nil#2%
22576     \PackageError{titletoc}{Unimplemented}%
22577     {The optional argument is currently mandatory}%
22578   \else
22579     \if@RTL\setlength\rightskip{#2}\else
22580     \setlength\leftskip{#2}\fi%
22581   \fi
22582   \if@RTL\setlength\leftskip{\@pnumwidth}\else\setlength\rightskip{\@pnumwidth}\fi%
22583   \let\contentsmargin\ttl@margin
22584   \def\ttl@makeline##1{##1}%
22585   #3%
22586   \addtolength{\parfillskip}{-\ttl@corr}%
22587   \if@RTL\addtolength{\leftskip}{\ttl@corr}\else\addtolength{\rightskip}{\ttl@corr}\fi%
22588   \let\ttl@leaders\leaders}
22589 \renewcommand\ttl@margin[2][\z@]{%
22590   \def\ttl@corr{#1}%
22591   \advance\if@RTL\leftskip\else\rightskip\fi-\@pnumwidth\relax
22592   \advance\if@RTL\leftskip\else\rightskip\fi#2\relax
22593   \def\@pnumwidth{#2}}
22594 \let\ttl@savel@part\l@part
22595 \def\l@part{\ttl@lselect{part}}
22596
22597 \let\ttl@savel@chapter\l@chapter
22598 \def\l@chapter{\ttl@lselect{chapter}}

```

## 155 File tocbibind-xetex-bidi.def





```

22599 \ProvidesFile{tocbibind-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for tocbibind packa
22600 \if@dotocbib
22601   \ifpackageloaded{natbib}{}{% natbib not loaded
22602     \renewcommand{\bibsection}{\t@cb@bchapsec}
22603     \renewenvironment{thebibliography}[1]{%
22604       \bibsection
22605       \begin{thebibitemlist}{#1}}{\end{thebibitemlist}}
22606   \renewenvironment{thebibitemlist}[1]{
22607     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
22608     \bidi@thebibliography@font@hook%
22609     \list{\@biblabel{\@arabic{c@enumiv}}}%
22610       {\settowidth\labelwidth{\@biblabel{#1}}%
22611        \leftmargin\labelwidth
22612        \advance\leftmargin\labelsep
22613        \@openbib@code
22614        \usecounter{enumiv}%
22615        \let\p@enumiv\@empty
22616        \renewcommand\theenumiv{\@arabic{c@enumiv}}}%
22617     \sloppy
22618     \clubpenalty4000
22619     \@clubpenalty \clubpenalty
22620     \widowpenalty4000%
22621     \sfcode`\.\@m}
22622   {\def\@noitemerr
22623     {\@latex@warning{Empty `thebibliography' environment}}}%
22624   \endlist}
22625
22626   \ifpackagewith{chapterbib}{sectionbib}%
22627     {\renewcommand{\sectionbib}[2]{}%
22628     {}
22629
22630   \fi
22631   \if@inltxdoc\else
22632     \renewenvironment{theindex}%
22633       {\if@twocolumn
22634         \@restonecolfalse
22635       \else
22636         \@restonecoltrue
22637       \fi
22638     \if@bibchapter
22639       \if@donumindex
22640         \refstepcounter{chapter}
22641         \twocolumn[\vspace*{2\topskip}%
22642           \@makechapterhead{\indexname}}%
22643         \addcontentsline{toc}{chapter}{\protect\numberline{\thechapter}\indexname}
22644         \chaptermark{\indexname}
22645       \else
22646         \if@dotocind
22647           \twocolumn[\vspace*{2\topskip}%
22648             \@makeschapterhead{\indexname}}%
22649           \prw@mkboth{\indexname}
22650           \addcontentsline{toc}{chapter}{\indexname}
22651         \else
22652           \twocolumn[\vspace*{2\topskip}%

```



```

22653             \@makeschapterhead{\indexname}}%
22654             \prw@mkboth{\indexname}
22655             \fi
22656         \fi
22657     \else
22658         \if@donumindex
22659             \twocolumn[\vspace*{-1.5\topskip}%
22660                 \@nameuse{\@tocextra}{\indexname}}%
22661             \csname \@tocextra mark\endcsname{\indexname}
22662         \else
22663             \if@dotocind
22664                 \twocolumn[\vspace*{-1.5\topskip}%
22665                     \toc@headstar{\@tocextra}{\indexname}}%
22666                 \prw@mkboth{\indexname}
22667                 \addcontentsline{toc}{\@tocextra}{\indexname}
22668             \else
22669                 \twocolumn[\vspace*{-1.5\topskip}%
22670                     \toc@headstar{\@tocextra}{\indexname}}%
22671                 \prw@mkboth{\indexname}
22672             \fi
22673         \fi
22674     \fi
22675     \thispagestyle{plain}\parindent\z@
22676     \parskip\z@ \@plus .3\p@\relax
22677     \let\item\@idxitem}
22678     {\if@restonecol\onecolumn\else\clearpage\fi}
22679 \fi

```

## 156 File tocloft-xetex-bidi.def

```

22680 \ProvidesFile{tocloft-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for tocloft package f
22681 \let\cftdot\@SepMark
22682 \if@cfthaspart
22683 \renewcommand*{\l@part}[2]{
22684     \@cftdopartfalse
22685     \ifnum \c@tocdepth >-2\relax
22686         \if@cfthaschapter
22687             \@cftdoparttrue
22688         \fi
22689         \ifnum \c@tocdepth >\m@ne
22690             \if@cfthaschapter\else
22691                 \@cftdoparttrue
22692             \fi
22693         \fi
22694     \fi
22695     \if@cftdopart
22696         \if@cfthaschapter
22697             \addpenalty{-\@highpenalty}
22698         \else
22699             \addpenalty\@secpenalty
22700         \fi
22701         \addvspace{\cftbeforepartskip}
22702         \begingroup
22703         {\if@RTL\rightskip\else\leftskip\fi \cftpartindent\relax

```



```

22704 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22705 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22706 \parindent \cftpartindent\relax\@afterindenttrue
22707 \interlinepenalty\@M
22708 \leavevmode
22709 \@tempdima \cftpartnumwidth\relax
22710 \let\@cftbsnum \cftpartpresnum
22711 \let\@cftasnum \cftpartaftersnum
22712 \let\@cftasnumb \cftpartaftersnumb
22713 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
22714 {\cftpartfont \cftpartpresnum #1}
22715 \cftpartfillnum{#2}}
22716 \nobreak
22717 \if@cfthaschapter
22718 \global\@nobreaktrue
22719 \everypar{\global\@nobreakfalse\everypar{}}
22720 \else
22721 \if@compatibility
22722 \global\@nobreaktrue
22723 \everypar{\global\@nobreakfalse\everypar{}}
22724 \fi
22725 \fi
22726 \endgroup
22727 \fi}
22728 \fi
22729 \if@cfthaschapter
22730 \renewcommand*{\l@chapter}[2]{
22731 \ifnum \c@tocdepth >\m@ne
22732 \addpenalty{-\@highpenalty}
22733 \vskip \cftbeforechapskip
22734 {\if@RTL\rightskip\else\leftskip\fi \cftchapindent\relax
22735 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22736 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22737 \parindent \cftchapindent\relax\@afterindenttrue
22738 \interlinepenalty\@M
22739 \leavevmode
22740 \@tempdima \cftchapnumwidth\relax
22741 \let\@cftbsnum \cftchappresnum
22742 \let\@cftasnum \cftchapaftersnum
22743 \let\@cftasnumb \cftchapaftersnumb
22744 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
22745 {\cftchapfont #1}\nobreak
22746 \cftchapfillnum{#2}}
22747 \fi}
22748 \fi
22749 \renewcommand*{\l@section}[2]{%
22750 \ifnum \c@tocdepth >\z@
22751 \if@cfthaschapter
22752 \vskip \cftbeforesecskip
22753 \else
22754 \addpenalty\@secpenalty
22755 \addvspace{\cftbeforesecskip}
22756 \fi
22757 {\if@RTL\rightskip\else\leftskip\fi \cftsecindent\relax

```



```

22758 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22759 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22760 \parindent \cftsecindent\relax\@afterindenttrue
22761 \interlinepenalty\@M
22762 \leavevmode
22763 \@tempdima \cftsecnumwidth\relax
22764 \let\@cftbsnum \cftsecpresnum
22765 \let\@cftasnum \cftsecaftersnum
22766 \let\@cftasnumb \cftsecaftersnumb
22767 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22768 {\cftsecfont #1}\nobreak
22769 \cftsecfillnum{#2}}
22770 \fi}
22771 \renewcommand*{\l@section}[2]{%
22772 \ifnum \c@tocdepth >\@ne
22773 \vskip \cftbeforesubsecskip
22774 {\if@RTL\rightskip\else\leftskip\fi \cftsubsecindent\relax
22775 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22776 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22777 \parindent \cftsubsecindent\relax\@afterindenttrue
22778 \interlinepenalty\@M
22779 \leavevmode
22780 \@tempdima \cftsubsecnumwidth\relax
22781 \let\@cftbsnum \cftsubsecpresnum
22782 \let\@cftasnum \cftsubsecaftersnum
22783 \let\@cftasnumb \cftsubsecaftersnumb
22784 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22785 {\cftsubsecfont #1}\nobreak
22786 \cftsubsecfillnum{#2}}
22787 \fi}
22788 \renewcommand*{\l@subsubsection}[2]{%
22789 \ifnum \c@tocdepth >\tw@
22790 \vskip \cftbeforesubsubsecskip
22791 {\if@RTL\rightskip\else\leftskip\fi \cftsubsubsecindent\relax
22792 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22793 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22794 \parindent \cftsubsubsecindent\relax\@afterindenttrue
22795 \interlinepenalty\@M
22796 \leavevmode
22797 \@tempdima \cftsubsubsecnumwidth\relax
22798 \let\@cftbsnum \cftsubsubsecpresnum
22799 \let\@cftasnum \cftsubsubsecaftersnum
22800 \let\@cftasnumb \cftsubsubsecaftersnumb
22801 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22802 {\cftsubsubsecfont #1}\nobreak
22803 \cftsubsubsecfillnum{#2}}
22804 \fi}
22805 \renewcommand*{\l@paragraph}[2]{%
22806 \ifnum \c@tocdepth >3\relax
22807 \vskip \cftbeforeparaskip
22808 {\if@RTL\rightskip\else\leftskip\fi \cftparaindent\relax
22809 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22810 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22811 \parindent \cftparaindent\relax\@afterindenttrue

```



```

22812 \interlinepenalty\@M
22813 \leavevmode
22814 \@tempdima \cftparanumwidth\relax
22815 \let\@cftbsnum \cftparapresnum
22816 \let\@cftasnum \cftparaaftersnum
22817 \let\@cftasnumb \cftparaaftersnumb
22818 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22819 {\cftparafont #1}\nobreak
22820 \cftparafillnum{#2}}
22821 \fi}
22822 \renewcommand*\l@subparagraph}[2]{%
22823 \ifnum \c@tocdepth >4\relax
22824 \vskip \cftbeforesubparaskip
22825 {\if@RTL\righskip\else\leftskip\fi \cftsubparaindent\relax
22826 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22827 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22828 \parindent \cftsubparaindent\relax\@afterindenttrue
22829 \interlinepenalty\@M
22830 \leavevmode
22831 \@tempdima \cftsubparanumwidth\relax
22832 \let\@cftbsnum \cftsubparapresnum
22833 \let\@cftasnum \cftsubparaaftersnum
22834 \let\@cftasnumb \cftsubparaaftersnumb
22835 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22836 {\cftsubparafont #1}\nobreak
22837 \cftsubparafillnum{#2}}
22838 \fi}
22839 \renewcommand*\l@figure}[2]{%
22840 \ifnum \c@lofdepth >\z@
22841 \vskip \cftbeforefigskip
22842 {\if@RTL\righskip\else\leftskip\fi \cftfigindent\relax
22843 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22844 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22845 \parindent \cftfigindent\relax\@afterindenttrue
22846 \interlinepenalty\@M
22847 \leavevmode
22848 \@tempdima \cftfignumwidth\relax
22849 \let\@cftbsnum \cftfigpresnum
22850 \let\@cftasnum \cftfigaftersnum
22851 \let\@cftasnumb \cftfigaftersnumb
22852 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22853 {\cftfigfont #1}\nobreak
22854 \cftfigfillnum{#2}}
22855 \fi
22856 }
22857 \renewcommand*\l@table}[2]{%
22858 \ifnum \c@lotdepth >\z@
22859 \vskip \cftbeforetabskip
22860 {\if@RTL\righskip\else\leftskip\fi \cfttabindent\relax
22861 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22862 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22863 \parindent \cfttabindent\relax\@afterindenttrue
22864 \interlinepenalty\@M
22865 \leavevmode

```



```

22866 \@tempdima \cfttabnumwidth\relax
22867 \let\@cftbsnum \cfttabpresnum
22868 \let\@cftasnum \cfttabaftersnum
22869 \let\@cftasnumb \cfttabaftersnumb
22870 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22871 {\cfttabfont #1}\nobreak
22872 \cfttabfillnum{#2}}
22873 \fi
22874 }
22875 \renewcommand{\@cftl@subfig}{
22876 \renewcommand*{\l@subfigure}[2]{%
22877 \ifnum \c@lofdepth > \toclevel@subfigure
22878 \vskip \cftbeforesubfigskip
22879 {\if@RTL\rightskip\else\leftskip\fi \cftsubfigindent\relax
22880 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22881 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22882 \parindent \cftsubfigindent\relax\@afterindenttrue
22883 \interlinepenalty\@M
22884 \leavevmode
22885 \@tempdima \cftsubfignumwidth\relax
22886 \let\@cftbsnum \cftsubfigpresnum
22887 \let\@cftasnum \cftsubfigaftersnum
22888 \let\@cftasnumb \cftsubfigaftersnumb
22889 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22890 {\cftsubfigfont ##1}\nobreak
22891 \cftsubfigfillnum{##2}}
22892 \fi
22893 }
22894 }
22895 \renewcommand{\@cftl@subtab}{
22896 \renewcommand*{\l@subtable}[2]{%
22897 \ifnum \c@lotdepth > \toclevel@subtable
22898 \vskip \cftbeforesubtabskip
22899 {\if@RTL\rightskip\else\leftskip\fi \cftsubtabindent\relax
22900 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22901 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22902 \parindent \cftsubtabindent\relax\@afterindenttrue
22903 \interlinepenalty\@M
22904 \leavevmode
22905 \@tempdima \cftsubtabnumwidth\relax
22906 \let\@cftbsnum \cftsubtabpresnum
22907 \let\@cftasnum \cftsubtabaftersnum
22908 \let\@cftasnumb \cftsubtabaftersnumb
22909 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22910 {\cftsubtabfont ##1}\nobreak
22911 \cftsubtabfillnum{##2}}
22912 \fi
22913 }
22914 }
22915 \renewcommand{\newlistentry}[4][\@empty]{%
22916 \ifundefined{c@#2}{% check & set the counter
22917 \ifx \@empty#1\relax
22918 \newcounter{#2}
22919 \else

```



```

22920 \ifundefined{c@#1}{\PackageWarning{tocloft}%
22921     {#1 has no counter for use as a `within'}
22922     \newcounter{#2}}%
22923 {\newcounter{#2}[#1]%
22924 \expandafter\edef\csname the#2\endcsname{%
22925     \expandafter\noexpand\csname the#1\endcsname\@SepMark\noexpand\arabic{#2}}}
22926 \fi
22927 \setcounter{#2}{0}
22928 }
22929 {\PackageError{tocloft}{#2 has been previously defined}{\@eha}}
22930
22931 \@namedef{l@#2}##1##2{%
22932     \ifnum \@nameuse{c@#3depth} > #4\relax
22933     \vskip \@nameuse{cftbefore#2skip}
22934     {\if@RTL\righskip\else\leftskip\fi \@nameuse{cft#2indent}\relax
22935     \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22936     \parfillskip -\if@RTL\leftskip\else\righskip\fi
22937     \parindent \@nameuse{cft#2indent}\relax\@afterindenttrue
22938     \interlinepenalty\@M
22939     \leavevmode
22940     \@tempdima \@nameuse{cft#2numwidth}\relax
22941     \expandafter\let\expandafter\@cftbsnum\csname cft#2presnum\endcsname
22942     \expandafter\let\expandafter\@cftasnum\csname cft#2aftersnum\endcsname
22943     \expandafter\let\expandafter\@cftasnumb\csname cft#2aftersnumb\endcsname
22944     \advance\if@RTL\righskip\else\leftskip\fi\@tempdima \null\nobreak\hskip -\if@RTL\righ
22945     {\@nameuse{cft#2font}##1}\nobreak
22946     \@nameuse{cft#2fillnum}{##2}}
22947 \fi
22948 } % end of l@#2
22949
22950 \expandafter\newlength\csname cftbefore#2skip\endcsname
22951 \setlength{\@nameuse{cftbefore#2skip}}{\z@ \@plus .2p@}
22952 \expandafter\newlength\csname cft#2indent\endcsname
22953 \expandafter\newlength\csname cft#2numwidth\endcsname
22954 \ifcase #4\relax % 0
22955     \setlength{\@nameuse{cft#2indent}}{0em}
22956     \setlength{\@nameuse{cft#2numwidth}}{1.5em}
22957 \or % 1
22958     \setlength{\@nameuse{cft#2indent}}{1.5em}
22959     \setlength{\@nameuse{cft#2numwidth}}{2.3em}
22960 \or % 2
22961     \setlength{\@nameuse{cft#2indent}}{3.8em}
22962     \setlength{\@nameuse{cft#2numwidth}}{3.2em}
22963 \or % 3
22964     \setlength{\@nameuse{cft#2indent}}{7.0em}
22965     \setlength{\@nameuse{cft#2numwidth}}{4.1em}
22966 \else % anything else
22967     \setlength{\@nameuse{cft#2indent}}{10.0em}
22968     \setlength{\@nameuse{cft#2numwidth}}{5.0em}
22969 \fi
22970 \@namedef{cft#2font}{\normalfont}
22971 \@namedef{cft#2presnum}{}
22972 \@namedef{cft#2aftersnum}{}
22973 \@namedef{cft#2aftersnumb}{}

```



```

22974 \@namedef{cft#2dotsep}{\cftdotsep}
22975 \@namedef{cft#2leader}{\normalfont\cftdotfill{\@nameuse{cft#2dotsep}}}
22976 \@namedef{cft#2pagefont}{\normalfont}
22977 \@namedef{cft#2afterpnum}{}
22978 \@namedef{toclevel@#2}{#4}
22979 \@namedef{cft#2fillnum}##1{%
22980   {\@nameuse{cft#2leader}}\nobreak
22981   \hb@xt@{\pnumwidth}{\hfil\@nameuse{cft#2pagefont}##1}\@nameuse{cft#2afterpnum}\par}
22982 } % end \newlistentry
22983 \renewcommand{\cftchapterprecistoc}[1]{\addtocontents{toc}{%
22984   {\ifRTL\righskip\else\leftskip\fi \cftchapindent\relax
22985   \advance\ifRTL\righskip\else\leftskip\fi \cftchapnumwidth\relax
22986   \ifRTL\leftskip\else\righskip\fi \@tocrmarg\relax
22987   \textit{#1}\protect\par}}}

```

## 157 File tocbasic-xetex-bidi.def

```

22988 \ProvidesFile{tocbasic-xetex-bidi.def}[2022/06/15 v0.5 bidi adaptations for tocbasic package]
22989 \bidi@undef\scr@dte@def@l@undottedtocline
22990 \bidi@undef\scr@dte@undottedtocline@init
22991 \DeclareTOCEntryStyle{undottedtocline}{%
22992   \DefineTOCEntryLengthOption{indent}%
22993     {scr@tso@}{@indent}{entry indent}%
22994   \DefineTOCEntryLengthOption{numwidth}%
22995     {scr@tso@}{@numwidth}{entry number width}%
22996   \@ifundefined{#1tocdepth}{%
22997     \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
22998       \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
22999         \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
23000           \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
23001             \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
23002               \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
23003                 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
23004                   \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
23005                     \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
23006                       \expandafter\let\csname #1tocdepth\expandafter\endcsname
23007                         \csname #1numdepth\endcsname
23008                     }%
23009                   }%
23010                 }%
23011               }%
23012             }%
23013           }%
23014         }%
23015       }%
23016     }%
23017   }{%
23018     \@ifundefined{scr@tso@#1@indent}{%
23019       \@ifundefined{scr@#1@tocindent}{%
23020         \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23021           \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23022             \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
23023               \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
23024                 \scr@ifundefinedorrelax{1@chapter}{%

```





```

23025 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
23026 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23027 \Ifstr{#1}{subsubsection}{%
23028 \@namedef{scr@tso@#1@indent}{3.8em}%
23029 }{%
23030 \Ifstr{#1}{paragraph}{%
23031 \@namedef{scr@tso@#1@indent}{7em}%
23032 }{%
23033 \Ifstr{#1}{subparagraph}{%
23034 \@namedef{scr@tso@#1@indent}{10em}%
23035 }{%
23036 }%
23037 }%
23038 }%
23039 }%
23040 }%
23041 }{%
23042 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23043 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
23044 \Ifstr{#1}{subsubsection}{%
23045 \@namedef{scr@tso@#1@indent}{7.0em}%
23046 }{%
23047 \Ifstr{#1}{paragraph}{%
23048 \@namedef{scr@tso@#1@indent}{10em}%
23049 }{%
23050 \Ifstr{#1}{subparagraph}{%
23051 \@namedef{scr@tso@#1@indent}{12em}%
23052 }{%
23053 }%
23054 }%
23055 }%
23056 }%
23057 }%
23058 }%
23059 }%
23060 }%
23061 }%
23062 }%
23063 }{%
23064 \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
23065 }%
23066 }{%}%
23067 \@ifundefined{scr@tso@#1@numwidth}{%
23068 \@ifundefined{scr@#1@tocnumwidth}{%
23069 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23070 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23071 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23072 \scr@ifundefinedorrelax{chapter}{%
23073 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23074 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23075 \Ifstr{#1}{subsubsection}{%
23076 \@namedef{scr@tso@#1@numwidth}{3.2em}%
23077 }{%
23078 \Ifstr{#1}{paragraph}{%

```



```

23079         \@namedef{scr@tso@#1@numwidth}{4.1em}%
23080     }{%
23081         \Ifstr{#1}{subparagraph}{%
23082             \@namedef{scr@tso@#1@numwidth}{5em}%
23083         }{%
23084             }%
23085         }%
23086     }%
23087 }%
23088 }%
23089 }{%
23090     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23091         \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
23092             \Ifstr{#1}{subsubsection}{%
23093                 \@namedef{scr@tso@#1@numwidth}{3.1em}%
23094             }{%
23095                 \Ifstr{#1}{paragraph}{%
23096                     \@namedef{scr@tso@#1@numwidth}{5em}%
23097                 }{%
23098                     \Ifstr{#1}{subparagraph}{%
23099                         \@namedef{scr@tso@#1@numwidth}{6em}%
23100                     }{%
23101                         }%
23102                     }%
23103                 }%
23104             }%
23105         }%
23106     }%
23107 }%
23108 }%
23109 }%
23110 }{%
23111     \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
23112 }%
23113 }{}%
23114 }}{%
23115     \ifnum \c@tocdepth > \numexpr \@nameuse{#1tocdepth} - \@ne \relax
23116         \ifnum \@nameuse{#1tocdepth} < \@ne
23117             \scr@ifundefinedorrelax{chapter}{%
23118                 \addpenalty\@secpenalty
23119                 \addvspace{1.0em \@plus\p@}%
23120             }{%
23121                 \addpenalty{-\@highpenalty}%
23122                 \vskip 1.0em \@plus\p@
23123             }%
23124         \else
23125             \addpenalty\@secpenalty
23126             \addvspace{1.0em \@plus\p@}%
23127         \fi
23128     \setlength\@tempdima{\@nameuse{scr@tso@#1@numwidth}}%
23129     \begingroup
23130         \parindent \z@ \bidi@rightskip \@pnumwidth
23131         \parfillskip -\@pnumwidth
23132         \leavevmode

```



```

23133 \bfseries
23134 \advance\bidileftskip\@tempdima
23135 \iftocfeature{\@currentx}{noindent}{%
23136 \hskip -\bidileftskip
23137 }{%
23138 \advance\bidileftskip\@nameuse{scr@tso@#1@indent}%
23139 \hskip -\dimexpr \bidileftskip-\@nameuse{scr@tso@#1@indent}\relax
23140 }%
23141 ##1%
23142 \nobreak
23143 \hfil \nobreak\hb@ext@\@pnumwidth{\hss ##2}%
23144 \par
23145 \penalty\@highpenalty
23146 \endgroup
23147 \fi
23148 }
23149
23150 \bidiundef\scr@dte@def@l@largetocline
23151 \bidiundef\scr@dte@largetocline@init
23152 \DeclareTOCEntryStyle{largetocline}[{%
23153 \DefineTOCEntryLengthOption{indent}%
23154 {scr@tso@}{@indent}{entry indent}%
23155 \@ifundefined{#1tocdepth}{%
23156 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
23157 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
23158 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
23159 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
23160 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
23161 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
23162 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
23163 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
23164 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
23165 \expandafter\let\csname #1tocdepth\expandafter\endcsname
23166 \csname #1numdepth\endcsname
23167 }%
23168 }%
23169 }%
23170 }%
23171 }%
23172 }%
23173 }%
23174 }%
23175 }%
23176 }{}%
23177 \@ifundefined{scr@tso@#1@indent}{%
23178 \@ifundefined{scr@#1@tocindent}{%
23179 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23180 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23181 \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
23182 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
23183 \scr@ifundefinedorrelax{l@chapter}{%
23184 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
23185 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23186 \Ifstr{#1}{subsubsection}{%

```



```

23187         \@namedef{scr@tso@#1@indent}{3.8em}%
23188     }{%
23189         \Ifstr{#1}{paragraph}{%
23190             \@namedef{scr@tso@#1@indent}{7em}%
23191         }{%
23192             \Ifstr{#1}{subparagraph}{%
23193                 \@namedef{scr@tso@#1@indent}{10em}%
23194             }{%
23195                 }%
23196             }%
23197         }%
23198     }%
23199 }{%
23200 }{%
23201     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23202         \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
23203             \Ifstr{#1}{subsubsection}{%
23204                 \@namedef{scr@tso@#1@indent}{7.0em}%
23205             }{%
23206                 \Ifstr{#1}{paragraph}{%
23207                     \@namedef{scr@tso@#1@indent}{10em}%
23208                 }{%
23209                     \Ifstr{#1}{subparagraph}{%
23210                         \@namedef{scr@tso@#1@indent}{12em}%
23211                     }{%
23212                         }%
23213                     }%
23214                 }%
23215             }%
23216         }%
23217     }%
23218 }%
23219 }%
23220 }%
23221 }%
23222 }{%
23223     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
23224 }%
23225 }{}%
23226 }]{%
23227 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
23228     \ifnum \@nameuse{#1tocdepth}<\@ne
23229         \scr@ifundefinedorrelax{chapter}{%
23230             \addpenalty\@secpenalty
23231             \addvspace{2.25em \@plus\p@}%
23232         }{%
23233             \addpenalty{-\@highpenalty}%
23234             \addvspace{2.25em \@plus\p@}%
23235         }%
23236     \else
23237         \addpenalty\@secpenalty
23238         \addvspace{2.25em \@plus\p@}%
23239     \fi
23240     \setlength\@tempdima{3em}%

```



```

23241 \begingroup
23242 \parindent \z@ \bidi@rightskip \@pnumwidth
23243 \parfillskip -\@pnumwidth
23244 \leavevmode
23245 \large
23246 \bfseries
23247 \IfTocfeature{\@currentx}{noindent}{%
23248 }{%
23249 \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
23250 }%
23251 ##1%
23252 \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
23253 \par
23254 \nobreak
23255 \ifnum 0=
23256 \scr@ifundefinedorrelax{chapter}{\if@compatibility 1\else 0\fi}{1}\relax
23257 \global\@nobreaktrue
23258 \everypar{\global\@nobreakfalse\everypar{}}%
23259 \fi
23260 \endgroup
23261 \fi
23262 }
23263
23264 \renewcommand*{\scr@dte@tocline}[3]{%
23265 \ifnum \@nameuse{#1tocdepth}>\c@tocdepth
23266 \else
23267 \tocbasic@DependOnPenaltyAndTOCLevel{#1}%
23268 \addvspace{\@nameuse{scr@tso@#1@beforeskip}}\relax
23269 \@nameuse{Ifscr@tso@#1@dynindent}{%
23270 \expandafter\ifx\csname scr@tso@#1@indentfollows\endcsname\@empty
23271 \PackageWarning{tocbasic}{`dynindent' for `#1' not available}%
23272 \else
23273 \edef\reserved@a{\@nameuse{scr@tso@#1@indentfollows}}%
23274 \@for \reserved@a:=\reserved@a\do {%
23275 \scr@trim@spaces\reserved@a
23276 \ifx\reserved@a\@empty\else
23277 \scr@ifundefinedorrelax{\reserved@a tocdepth}{%
23278 }{%
23279 \ifnum \@nameuse{\reserved@a tocdepth}<\@nameuse{#1tocdepth}%
23280 \@tempdima\@nameuse{scr@tso@\reserved@a @indent}\relax
23281 \@nameuse{Ifscr@tso@\reserved@a @dynnumwidth}{%
23282 \scr@ifundefinedorrelax
23283 {scr@dte@\reserved@a @lastmaxnumwidth}{%
23284 \advance\@tempdima
23285 \@nameuse{scr@tso@\reserved@a @numwidth}}\relax
23286 }{%
23287 \advance\@tempdima
23288 \@nameuse{scr@dte@\reserved@a @lastmaxnumwidth}\relax
23289 }%
23290 }{%
23291 \advance\@tempdima
23292 \@nameuse{scr@tso@\reserved@a @numwidth}\relax
23293 }%
23294 \ifdim \@tempdima>\@nameuse{scr@tso@#1@indent}\relax

```



```

23295         \expandafter\edef\csname scr@tso@#1@indent\endcsname
23296         {\the\@tempdima}%
23297         \fi
23298     \fi
23299     }%
23300 \fi
23301 }%
23302 \fi
23303 }{}%
23304 {%
23305     \Iftocfeature{\@currentx}{noindent}{%
23306         \bidi@leftskip \z@
23307     }{%
23308         \bidi@leftskip \@nameuse{scr@tso@#1@indent}\relax
23309     }%
23310     \bidi@rightskip \@nameuse{scr@tso@#1@rightindent}\relax
23311     \parfillskip -\bidi@rightskip
23312     \@nameuse{Ifscr@tso@#1@raggedpage}{%
23313         \addtolength{\parfillskip}{\z@ \@plus 1fil}%
23314     }{}%
23315     \Iftocfeature{\@currentx}{noindent}{%
23316         \parindent \z@
23317     }{%
23318         \parindent \@nameuse{scr@tso@#1@indent}\relax
23319     }%
23320     \@afterindenttrue
23321     \interlinepenalty\@M
23322     \expandafter\ifx\csname ragged#1entry\endcsname\raggedright
23323         \addtolength\bidi@rightskip\@flushglue
23324     \else
23325         \def\reserved@a{\raggedright}%
23326         \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
23327             \addtolength\bidi@rightskip\@flushglue
23328         \else
23329             \renewcommand\reserved@a{\raggedright}%
23330             \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
23331                 \addtolength\bidi@rightskip\@flushglue
23332             \fi
23333         \fi
23334     \fi
23335     \leavevmode
23336     \@tempdima \@nameuse{scr@tso@#1@numwidth}\relax
23337     \@nameuse{Ifscr@tso@#1@dynnumwidth}{%
23338         \scr@ifundefinedorrelax{scr@dte@#1@lastmaxnumwidth}{%
23339             \ifdim \@nameuse{scr@dte@#1@lastmaxnumwidth}>\@tempdima
23340                 \@tempdima\@nameuse{scr@dte@#1@lastmaxnumwidth}\relax
23341             \fi
23342         }%
23343     }{}%
23344     \advance\bidi@leftskip \@tempdima
23345     \null\nobreak\hskip -\bidi@leftskip
23346     {%
23347         \usetocbasicnumberline
23348         \let\scr@dte@numberline@box\numberline@box

```



```

23349 \def\numberline@box##1{%
23350 \sbox\scr@dte@tocline@numbox{\@nameuse{scr@tso@#1@numberformat}{##1}}%
23351 \global\scr@dte@tocline@numberwidth
23352 \dimexpr\wd\scr@dte@tocline@numbox+\@nameuse{scr@tso@#1@numsep}\relax
23353 \relax
23354 \ifdim \scr@dte@tocline@numberwidth
23355 >\@nameuse{scr@dte@#1@maxnumwidth}\relax
23356 \global\@nameuse{scr@dte@#1@maxnumwidth}\scr@dte@tocline@numberwidth
23357 \fi
23358 \@nameuse{Ifscr@tso@#1@dynnumwidth}{-}{%
23359 \ifdim \scr@dte@tocline@numberwidth
23360 >\dimexpr \@nameuse{scr@tso@#1@numwidth}%
23361 +\@nameuse{scr@tso@#1@numsep}\relax\relax
23362 \PackageWarning{tocbasic}{%
23363 number width of #1 toc entries should be
23364 increased!\MessageBreak
23365 Currently used number width =
23366 \the\wd\scr@dte@tocline@numbox,\MessageBreak
23367 Wanted number separation
23368 \space\space\space =
23369 \the\dimexpr\@nameuse{scr@tso@#1@numsep}\relax,\MessageBreak
23370 Reserved number width \space\space\space\space\space\space =
23371 \the\dimexpr\@nameuse{scr@tso@#1@numwidth}\relax%
23372 }%
23373 \fi
23374 }%
23375 \scr@dte@numberline@box{\@nameuse{scr@tso@#1@numberformat}{##1}}%
23376 \@nameuse{Ifscr@tso@#1@breakafternumber}{-}{%
23377 {\parfillskip\@flushglue\par}\nobreak\hskip-\bidi@leftskip
23378 }{}%
23379 }%
23380 {\@nameuse{scr@tso@#1@entryformat}{-}{%
23381 #2%
23382 \nobreak
23383 {%
23384 \normalfont\normalsize\@nameuse{scr@tso@#1@linefill}}%
23385 \nobreak
23386 \expandafter\let\expandafter\scr@dte@pagenumberwidth
23387 \csname scr@tso@#1@pagenumberwidth\endcsname
23388 \@nameuse{scr@tso@#1@pagenumberbox}{-}{%
23389 \@nameuse{scr@tso@#1@pagenumberformat}{#3}%
23390 }%
23391 }%
23392 }}\@par
23393 }%
23394 }%
23395 \tocbasic@SetPenaltyByTOCLevel{#1}%
23396 \fi
23397 }
23398
23399
23400 \bidi@undef\scr@dte@def@l@tocline
23401 \bidi@undef\scr@dte@tocline@init
23402 \DeclareTOCEntryStyle{tocline}{%

```



```

23403 \DefineTOCEntryLengthOption{beforeskip}%
23404   {scr@tso@}{@beforeskip}{vertical skip before the entry}%
23405 \DefineTOCEntryIfOption{breakafternumber}%
23406   {scr@tso@}{@breakafternumber}{line break after number flag}%
23407 \DefineTOCEntryIfOption{dynnumwidth}%
23408   {scr@tso@}{@dynnumwidth}{dynamic number width flag}%
23409 \DefineTOCEntryListOption{indentfollows}%
23410   {scr@tso@}{@indentfollows}{list of levels that define the indent}%
23411 \DefineTOCEntryIfOption{dynindent}%
23412   {scr@tso@}{@dynindent}{dynamic indent width flag}%
23413 \DefineTOCEntryCommandOption{entryformat}%
23414   {scr@tso@}{@entryformat}[1]{entry format}%
23415 \DefineTOCEntryCommandOption{entrynumberformat}%
23416   {scr@tso@}{@numberformat}[1]{entry number format}%
23417 \DefineTOCEntryCommandOption{linefill}{\TOCLineLeaderFill}%
23418   {scr@tso@}{@linefill}{filling between text and page number}%
23419 \DefineTOCEntryLengthOption{numsep}%
23420   {scr@tso@}{@numsep}{entry number separation}%
23421 \DefineTOCEntryCommandOption{onstarthigherlevel}%
23422   {scr@tso@}{@LastTOCLevelWasLower}{start higher level entry hook}%
23423 \DefineTOCEntryCommandOption{onstartlowerlevel}%
23424   {scr@tso@}{@LastTOCLevelWasHigher}{start lower level entry hook}%
23425 \DefineTOCEntryCommandOption{onstartsamelevel}%
23426   {scr@tso@}{@LastTOCLevelWasSame}{start same level entry hook}%
23427 \DefineTOCEntryCommandOption{pagenumberbox}%
23428   {scr@tso@}{@pagenumberbox}[1]{page number box}%
23429 \DefineTOCEntryCommandOption{pagenumberformat}%
23430   {scr@tso@}{@pagenumberformat}[1]{page number format}%
23431 \DefineTOCEntryLengthOption{pagenumberwidth}%
23432   {scr@tso@}{@pagenumberwidth}{width of page number box}%
23433 \DefineTOCEntryLengthOption{rightindent}%
23434   {scr@tso@}{@rightindent}{entry's text right indent}%
23435 \DefineTOCEntryOption{raggedentrytext}[true]{%
23436   \FamilySetBool{KOMAarg}{raggedentrytext}{@tempswa}{##1}%
23437   \ifx\FamilyKeyState\FamilyKeyStateProcessed
23438     \if@tempswa
23439       \expandafter\let\csname ragged\scr@dte@current entry\endcsname
23440       \raggedright
23441     \else
23442       \expandafter\let\csname ragged\scr@dte@current entry\endcsname
23443       \relax
23444     \fi
23445   \fi
23446 }%
23447 \DefineTOCEntryIfOption{raggedpagenumber}%
23448   {scr@tso@}{@raggedpage}{page number ragged flag}%
23449 \DefineTOCEntryLengthOption{indent}%
23450   {scr@tso@}{@indent}{entry indent}%
23451 \DefineTOCEntryLengthOption{numwidth}%
23452   {scr@tso@}{@numwidth}{entry number width}%
23453 \scr@ifundefinedorrelax{#1tocdepth}{%
23454   \Ifstrstart{#1}{sub}{%
23455     \scr@ifundefinedorrelax{\scr@dte@nosub{#1}tocdepth}{%
23456       \expandafter\edef\csname #1tocdepth\endcsname{%

```





```

23457         \the\numexpr \noexpand\@nameuse{\scr@dte@nosub{#1}tocdepth}+\@ne\relax
23458     }%
23459 }%
23460 }{}%
23461 }{}%
23462 \@ifundefined{#1tocdepth}{%
23463     \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
23464         \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
23465             \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
23466                 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
23467                     \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
23468                         \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
23469                             \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
23470                                 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
23471                                     \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
23472                                         \expandafter\let\csname #1tocdepth\expandafter\endcsname
23473                                             \csname #1numdepth\endcsname
23474                                     }%
23475                                 }%
23476                             }%
23477                         }%
23478                     }%
23479                 }%
23480             }%
23481         }%
23482     }%
23483 }{}%
23484 \scr@ifundefinedorrelax{scr@tso@#1@indent}{%
23485     \@ifundefined{scr@#1@tocindent}{%
23486         \Ifstrstart{#1}{sub}{%
23487             \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@indent}{%
23488                 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{}%
23489                 \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
23490                     \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}}%
23491                 \relax
23492             }%
23493         }%
23494     }{%
23495         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
23496             \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
23497                 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}}%
23498             \relax
23499         }%
23500     }{%
23501         \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
23502             \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}}%
23503             +\noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}}%
23504         \relax
23505     }%
23506 }%
23507 }%
23508 }{}%
23509 }{%
23510     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%

```



```

23511     }%
23512 }{}%
23513 \scr@ifundefinedorrelax{scr@tso@#1@pagenumberwidth}{%
23514     \Ifstrstart{#1}{sub}{%
23515         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@pagenumberwidth}{%
23516             \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}%
23517         }{%
23518             \expandafter\let
23519             \csname scr@tso@#1@pagenumberwidth\expandafter\endcsname
23520             \csname scr@tso@\scr@dte@nosub{#1}@pagenumberwidth\endcsname
23521         }%
23522     }{%
23523         \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}%
23524     }%
23525 }{}%
23526 \scr@ifundefinedorrelax{scr@tso@#1@rightindent}{%
23527     \Ifstrstart{#1}{sub}{%
23528         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@rightindent}{%
23529             \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
23530         }{%
23531             \expandafter\let
23532             \csname scr@tso@#1@rightindent\expandafter\endcsname
23533             \csname scr@tso@\scr@dte@nosub{#1}@rightindent\endcsname
23534         }%
23535     }{%
23536         \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
23537     }%
23538 }{}%
23539 \@ifundefined{scr@tso@#1@indent}{%
23540     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23541     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23542     \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
23543     \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
23544         \scr@ifundefinedorrelax{l@chapter}{%
23545             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
23546             \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23547             \Ifstr{#1}{subsubsection}{%
23548                 \@namedef{scr@tso@#1@indent}{3.8em}%
23549             }{%
23550                 \Ifstr{#1}{paragraph}{%
23551                     \@namedef{scr@tso@#1@indent}{7em}%
23552                 }{%
23553                     \Ifstr{#1}{subparagraph}{%
23554                         \@namedef{scr@tso@#1@indent}{10em}%
23555                     }{%
23556                         }%
23557                 }%
23558             }%
23559         }%
23560     }%
23561 }{}%
23562 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23563 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
23564 \Ifstr{#1}{subsubsection}{%

```



```

23565         \@namedef{scr@tso@#1@indent}{7.0em}%
23566     }{%
23567         \Ifstr{#1}{paragraph}{%
23568             \@namedef{scr@tso@#1@indent}{10em}%
23569         }{%
23570             \Ifstr{#1}{subparagraph}{%
23571                 \@namedef{scr@tso@#1@indent}{12em}%
23572             }{%
23573                 }%
23574             }%
23575         }%
23576     }%
23577 }%
23578 }%
23579 }%
23580 }%
23581 }%
23582 }%
23583 }{}%
23584 \scr@ifundefinedorrelax{scr@tso@#1@numwidth}{%
23585     \scr@ifundefinedorrelax{scr@#1@tocnumwidth}{%
23586         \Ifstrstart{#1}{sub}{%
23587             \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{}%
23588             \expandafter\edef\csname scr@tso@#1@numwidth\endcsname{%
23589                 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
23590                 +.9em%
23591             }%
23592         }%
23593     }%
23594 }{}%
23595 }{%
23596     \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
23597 }%
23598 }{}%
23599 \@ifundefined{scr@tso@#1@numwidth}{%
23600     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23601         \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23602             \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23603                 \scr@ifundefinedorrelax{chapter}{%
23604                     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23605                         \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23606                             \Ifstr{#1}{subsubsection}{%
23607                                 \@namedef{scr@tso@#1@numwidth}{3.2em}%
23608                             }{%
23609                                 \Ifstr{#1}{paragraph}{%
23610                                     \@namedef{scr@tso@#1@numwidth}{4.1em}%
23611                                 }{%
23612                                     \Ifstr{#1}{subparagraph}{%
23613                                         \@namedef{scr@tso@#1@numwidth}{5m}%
23614                                     }{%
23615                                         }%
23616                                     }%
23617                                 }%
23618                             }%

```



```

23619         }%
23620     }{%
23621         \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23622             \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
23623                 \Ifstr{#1}{subsubsection}{%
23624                     \@namedef{scr@tso@#1@numwidth}{3.1em}%
23625                 }{%
23626                     \Ifstr{#1}{paragraph}{%
23627                         \@namedef{scr@tso@#1@numwidth}{5em}%
23628                     }{%
23629                         \Ifstr{#1}{subparagraph}{%
23630                             \@namedef{scr@tso@#1@numwidth}{6em}%
23631                         }{%
23632                             }%
23633                         }%
23634                     }%
23635                 }%
23636             }%
23637         }%
23638     }%
23639 }%
23640 }%
23641 }{}%
23642 \expandafter\renewcommand%
23643 \csname scr@tso@#1@LastTOCLevelWasLower\endcsname{\LastTOCLevelWasLower}%
23644 \expandafter\renewcommand%
23645 \csname scr@tso@#1@LastTOCLevelWasSame\endcsname{\LastTOCLevelWasSame}%
23646 \expandafter\renewcommand%
23647 \csname scr@tso@#1@LastTOCLevelWasHigher\endcsname{\LastTOCLevelWasHigher}%
23648 \@ifundefined{scr@tso@#1@beforeskip}{%
23649     \Ifstr{#1}{part}{%
23650         \@namedef{scr@tso@#1@beforeskip}{\glueexpr 2.25em \@plus\p@\relax}%
23651     }{%
23652         \Ifstr{#1}{chapter}{%
23653             \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
23654         }{%
23655             \Ifstr{#1}{section}{%
23656                 \scr@ifundefinedorrelax{1@chapter}{%
23657                     \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
23658                 }{}%
23659             }{}%
23660         }%
23661     }%
23662     \expandafter\renewcommand\expandafter*%
23663     \csname scr@tso@#1@beforeskip\endcsname{\glueexpr \z@ plus .2\p@\relax}%
23664 }{}%
23665 \@ifundefined{scr@dte@#1@maxnumwidth}{%
23666     \expandafter\newlength\csname scr@dte@#1@maxnumwidth\endcsname
23667     \setlength{\@nameuse{scr@dte@#1@maxnumwidth}}{\z@}%
23668 }{}%
23669 \renewcommand*{\scr@dte@donumwidth}{%
23670     \g@addto@macro{\scr@dte@donumwidth}{\do{#1}}%
23671 \expandafter\renewcommand\expandafter*%
23672 \csname scr@tso@#1@numsep\endcsname{.4em}%

```



```

23673 \expandafter\renewcommand%
23674 \csname scr@tso@#1@numberformat\endcsname[1]{##1}%
23675 \Ifstr{#1}{part}{%
23676   \expandafter\providecommand%
23677   \csname scr@tso@#1@entryformat\endcsname[1]{\large\bfseries ##1}%
23678 }{%
23679   \Ifstr{#1}{chapter}{%
23680     \expandafter\providecommand%
23681     \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
23682   }{%
23683     \scr@ifundefinedorrelax{1@chapter}{%
23684       \Ifstr{#1}{section}{%
23685         \expandafter\providecommand%
23686         \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
23687       }{%
23688       }%
23689     \expandafter\providecommand%
23690     \csname scr@tso@#1@entryformat\endcsname[1]{##1}%
23691   }%
23692 }%
23693 \expandafter\renewcommand
23694 \csname Ifscr@tso@#1@breakafternumber\endcsname[2]{##2}%
23695 \@ifundefined{scr@tso@#1@linefill}{%
23696   \Ifstr{#1}{part}{%
23697     \@namedef{scr@tso@#1@linefill}{\hfill}%
23698   }{%
23699     \Ifstr{#1}{chapter}{%
23700       \@namedef{scr@tso@#1@linefill}{\hfill}%
23701     }{%
23702       \scr@ifundefinedorrelax{1@chapter}{%
23703         \Ifstr{#1}{section}{%
23704           \@namedef{scr@tso@#1@linefill}{\hfill}%
23705         }{%
23706         }%
23707       \expandafter\renewcommand%
23708       \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
23709     }%
23710   }%
23711 }{%
23712 \expandafter\renewcommand\csname Ifscr@tso@#1@raggedpage\endcsname[2]{##2}%
23713 \Ifstr{#1}{part}{%
23714   \expandafter\providecommand%
23715   \csname scr@tso@#1@pagenumberformat\endcsname[1]{\large\bfseries ##1}%
23716 }{%
23717   \Ifstr{#1}{chapter}{%
23718     \expandafter\providecommand%
23719     \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
23720   }{%
23721     \scr@ifundefinedorrelax{1@chapter}{%
23722       \Ifstr{#1}{section}{%
23723         \expandafter\providecommand%
23724         \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
23725       }{%
23726       }%

```



```

23727 \expandafter\providecommand%
23728 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23729 {\normalfont\normalcolor ##1}}%
23730 }%
23731 }%
23732 \expandafter\renewcommand%
23733 \csname scr@tso@#1@pagenumberbox\endcsname[1]{%
23734 \hb@xt@{\@nameuse{scr@dte@pagenumberwidth}}{\hfil ##1}}%
23735 \expandafter\renewcommand\csname Ifscr@tso@#1@dynnumwidth\endcsname[2]{##2}%
23736 \expandafter\renewcommand\csname Ifscr@tso@#1@dynindent\endcsname[2]{##2}%
23737 \scr@ifundefinedorrelax{scr@tso@#1@indentfollows}{%
23738 \Ifstrstart{#1}{sub}{%
23739 \expandafter\edef\csname scr@tso@#1@indentfollows\endcsname{%
23740 \scr@dte@nosub{#1}}%
23741 }%
23742 }{%
23743 \expandafter\let\csname scr@tso@#1@indentfollows\endcsname\@empty
23744 }%
23745 }{}%
23746 }]{%
23747 \scr@dte@tocline{#1}{##1}{##2}%
23748 }
23749
23750 \if@bidi@csdef{scr@tso@figure@pagenumberformat}{%
23751 \renewcommand*{\scr@tso@figure@pagenumberformat}[1]{%
23752 {\normalfont\normalcolor #1}}%
23753 }%
23754 }{}
23755
23756 \if@bidi@csdef{scr@tso@table@pagenumberformat}{%
23757 \renewcommand*{\scr@tso@table@pagenumberformat}[1]{%
23758 {\normalfont\normalcolor #1}}%
23759 }%
23760 }{}
23761

```

## 158 File tocstyle-xetex-bidi.def

```

23762 \ProvidesFile{tocstyle-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tocstyle package]
23763 \renewcommand*{\tocstyle@dottedtocline}[5]{%
23764 \let\numberline\tocstyle@numberline
23765 \ifnum #1>\c@tocdepth \else
23766 \if@tocstyle@penalties
23767 \begingroup
23768 \@tempcnta 20010
23769 \advance \@tempcnta by -#1
23770 \ifnum \@tempcnta>\lastpenalty
23771 \aftergroup\penalty\aftergroup\@lowpenalty
23772 \fi
23773 \endgroup
23774 \fi
23775 \edef\tocstyledepth{#1}%
23776 \tocstyle@activate@features
23777 \ifx\tocstyle@feature@entryvskip\relax

```



```

23778 \vskip \z@ \@plus.2\p@
23779 \else
23780 \addvspace{\tocstyle@feature@entry\vskip}%
23781 \fi
23782 {%
23783 \parskip \z@ \parindent \z@ \if@RTL\rightskip\else\leftskip\fi \z@ \if@RTL\leftskip\el
23784 \tocstyle@feature@raggedhook
23785 \@tempdima #3\relax
23786 \@tempdimb #2\relax
23787 \typeout{m (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23788 \ifnum #1>\z@\relax
23789 \@tempcnta #1\relax \advance\@tempcnta \m@ne
23790 \ifcsname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23791 \ifcsname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23792 \@tempdimb
23793 \csname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23794 \advance\@tempdimb
23795 \csname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23796 \fi
23797 \fi
23798 \fi
23799 \typeout{C (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23800 \ifcsname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname
23801 \ifdim \@tempdimb>
23802 \csname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname\relax
23803 \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
23804 @#1\endcsname{\the\@tempdimb}%
23805 \fi
23806 \else
23807 \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
23808 @#1\endcsname{\the\@tempdimb}%
23809 \fi
23810 \iftocstyle@autolength
23811 \ifcsname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
23812 \@tempdimb \csname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
23813 \relax
23814 \fi
23815 \ifcsname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
23816 \@tempdima \csname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
23817 \relax
23818 \fi
23819 \typeout{a (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23820 \typeout{A (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23821 \else
23822 \@tempdimb #2\relax
23823 \typeout{M (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23824 \fi
23825 \ifcsname tocstyle@unumwidth@\tocstyleTOC @\endcsname
23826 \ifdim \@tempdima>
23827 \csname tocstyle@unumwidth@\tocstyleTOC @\endcsname\relax
23828 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
23829 @\endcsname{\the\@tempdima}%
23830 \fi
23831 \else

```



```

23832     \expandafter\edef\csname tocstyle@unumwidth@\tocstyleTOC
23833     @\endcsname{\the\@tempdima}%
23834 \fi
23835 \ifcase\tocstyle@indentstyle\relax\else
23836     \@tempdimb \z@
23837     \ifcsname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
23838     \@tempdima \csname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
23839     \relax
23840 \fi
23841 \typeout{s (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23842 \typeout{S (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23843 \fi
23844 \advance\parindent \@tempdimb\@afterindenttrue
23845 \advance\if@RTL\rightskip\else\leftskip\fi \parindent
23846 \advance\if@RTL\leftskip\else\rightskip\fi \@tocrmarg
23847 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
23848 \ifx\tocstyle@feature@parfillskip\relax\else
23849     \advance\parfillskip \tocstyle@feature@parfillskip\relax
23850 \fi
23851 \interlinepenalty\@M
23852 \leavevmode
23853 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
23854 \null\nobreak
23855 \iftocstyle@indentnotnumbered\else
23856     \hskip -\if@RTL\rightskip\else\leftskip\fi
23857 \fi
23858 \tocstyle@feature@entryhook
23859 {#4}\nobreak
23860 \ifx\tocstyle@feature@leaders\relax
23861     \leaders\hbox{$\m@th
23862         \mkern \@dotsep mu\hbox{\tocstyle@feature@dotohook .}%
23863         \mkern \@dotsep mu$}\hfill
23864 \else
23865     \tocstyle@feature@leaders
23866 \fi
23867 \nobreak
23868 \ifx\tocstyle@feature@pagenumberbox\relax
23869     \hb@xt@\@pnumwidth{\hfil\tocstyle@feature@pagenumberhook #5}%
23870 \else
23871     \tocstyle@feature@pagenumberbox{\tocstyle@feature@pagenumberhook #5}%
23872 \fi
23873 \par
23874 }%
23875 \iftocstyle@penalties
23876     \bgroup
23877     \@tempcnta 20009
23878     \advance\@tempcnta by -#1
23879     \edef\reserved@a{\egroup\penalty\the\@tempcnta\relax}%
23880     \reserved@a
23881 \fi
23882 \fi}
23883 \renewcommand*{\tocstyle@numberline}[1]{%
23884 \begingroup
23885     \ifx\tocstyle@feature@spaceafternumber\relax

```





```

23886 \settowidth\@tempdima{\tocstyle@numberline{#1}\enskip}%
23887 \else
23888 \settowidth\@tempdima{\tocstyle@numberline{#1}}%
23889 \advance \@tempdima \tocstyle@feature@spaceafternumber\relax
23890 \fi
23891 \ifcsname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname
23892 \ifdim \@tempdima >
23893 \csname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname\relax
23894 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
23895 @\tocstyledepth\endcsname{\the\@tempdima}%
23896 \fi
23897 \else
23898 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
23899 @\tocstyledepth\endcsname{\the\@tempdima}%
23900 \fi
23901 \endgroup
23902 \iftocstyle@indentnotnumbered
23903 \hskip -\if@RTL\rightskip\else\leftskip\fi
23904 \fi
23905 \ifcase \tocstyle@indentstyle
23906 \hb@xt@\@tempdima{\tocstyle@numberline{#1}\hfil}%
23907 \or
23908 \hb@xt@\@tempdima{\tocstyle@numberline{#1}\hfil}%
23909 \else
23910 \ifx\tocstyle@feature@spaceafternumber\relax
23911 \hbox{\tocstyle@numberline{#1}\enskip}%
23912 \else
23913 \hbox{\tocstyle@numberline{#1}\hskip
23914 \tocstyle@feature@spaceafternumber\relax}%
23915 \fi
23916 \fi
23917 }
23918 \AtBeginDocument{%
23919 \ifcsname l@part\endcsname
23920 \ifcsname l@chapter\endcsname
23921 \setbox\@tempboxa\vbox{\hsize\maxdimen
23922 \l@part{\tocstyle@l@define{part}{-1}}}%
23923 \else
23924 \setbox\@tempboxa\vbox{\hsize\maxdimen
23925 \l@part{\tocstyle@l@define{part}{0}}}%
23926 \fi
23927 \fi
23928 \ifcsname l@chapter\endcsname
23929 \setbox\@tempboxa\vbox{\hsize\maxdimen
23930 \l@chapter{\tocstyle@l@define{chapter}{0}}}%
23931 \fi
23932 \ifcsname l@section\endcsname
23933 \setbox\@tempboxa\vbox{\hsize\maxdimen
23934 \l@section{\tocstyle@l@define{section}{1}}}%
23935 \fi
23936 \ifcsname l@subsection\endcsname
23937 \setbox\@tempboxa\vbox{\hsize\maxdimen
23938 \l@subsection{\tocstyle@l@define{subsection}{2}}}%
23939 \fi

```



```

23940 \ifcsname l@subsubsection\endcsname
23941   \setbox\@tempboxa\vbox{\hsize\maxdimen
23942     \l@subsubsection{\tocstyle@l@define{subsubsection}{3}}{}}%
23943 \fi
23944 \ifcsname l@paragraph\endcsname
23945   \setbox\@tempboxa\vbox{\hsize\maxdimen
23946     \l@paragraph{\tocstyle@l@define{paragraph}{4}}{}}%
23947 \fi
23948 \ifcsname l@subparagraph\endcsname
23949   \setbox\@tempboxa\vbox{\hsize\maxdimen
23950     \l@subparagraph{\tocstyle@l@define{subparagraph}{5}}{}}%
23951 \fi
23952 \ifcsname l@table\endcsname
23953   \setbox\@tempboxa\vbox{\hsize\maxdimen
23954     \l@table{\tocstyle@l@define{table}{1}}{}}%
23955 \fi
23956 \ifcsname l@figure\endcsname
23957   \setbox\@tempboxa\vbox{\hsize\maxdimen
23958     \l@figure{\tocstyle@l@define{figure}{1}}{}}%
23959 \fi
23960 \def\@tempa#1#2#3#4#5{%
23961   \ifnum #1>\c@tocdepth \else
23962     \vskip \z@ \@plus.2\p@
23963     {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocdepth
23964     \parindent #2\relax\@afterindenttrue
23965     \interlinepenalty\@M
23966     \leavevmode
23967     \@tempdima #3\relax
23968     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightskip
23969     {#4}\nobreak
23970     \leaders\hbox{$\m@th
23971       \mkern \dotsep mu\hbox{.}\mkern \dotsep
23972       mu$}\hfill
23973     \nobreak
23974     \hb@xt@\@pnumwidth{\hfil \normalfont \normalcolor #5}}%
23975     \par}%
23976 \fi}%
23977 \ifx\@dottedtocline\@tempa\else
23978   \tocstyle@macrochangewarning\@dottedtocline
23979 \fi
23980 \let\tocstyle@saved@dottedtocline\@dottedtocline
23981 \def\@tempa#1{\hb@xt@\@tempdima{#1\autodot\hfil}}%
23982 \ifx\numberline\@tempa\else
23983   \def\@tempa#1{\hb@xt@\@tempdima{#1\hfil}}%
23984 \fi\ifx\numberline\@tempa\else
23985   \tocstyle@macrochangewarning\numberline
23986 \fi
23987 \fi
23988 \let\tocstyle@saved\@numberline\@numberline
23989 }
23990 \renewcommand*{\tocstyle@l@define}[2]{%
23991   \advance\if@RTL\rightskip\else\leftskip\fi-\@tempdima
23992   \edef\@tempa{%
23993     \noexpand\global\noexpand\let

```



```

23994 \expandafter\noexpand\csname tocstyle@saved@l@#1\endcsname
23995 \expandafter\noexpand\csname l@#1\endcsname
23996 \noexpand\gdef
23997 \expandafter\noexpand\csname tocstyle@l@#1\endcsname{%
23998 \noexpand\@dottedtocline{#2}{\the\if@RTL\rightskip\else\leftskip\fi}{\the\@tempdima}}%
23999 \noexpand\g@addto@macro\noexpand\tocstyle@activate@all@l{%
24000 \noexpand\let\expandafter\noexpand\csname l@#1\endcsname
24001 \expandafter\noexpand\csname tocstyle@l@#1\endcsname
24002 }%
24003 }%
24004 \PackageInfo{tocstyle}{prepare \expandafter\string
24005 \csname l@#1\endcsname\space for redefinition}%
24006 \@tempa
24007 }

```

## 159 File todonotes-xetex-bidi.def

```

24008 \ProvidesFile{todonotes-xetex-bidi.def}[2016/11/08 v0.4 bidi adaptations for todonotes packa
24009 \newif\if@bidi@todonotes@textdirection@RTL
24010 \newif\if@bidi@todonotes@figposition@right
24011 \newcommand{\@bidi@todonotes@align}{}%
24012 \define@key{todonotes}{align}{\renewcommand{\@bidi@todonotes@align}{#1}}%
24013 \newcommand{\@bidi@todonotes@textdirection}{}%
24014 \define@choicekey{todonotes}{textdirection}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right,
24015 \ifcase\@bidi@todonotes@tempb\relax
24016 \@bidi@todonotes@textdirection@RTLtrue
24017 \let\@bidi@todonotes@textdirection\RLE
24018 \or
24019 \@bidi@todonotes@textdirection@RTLfalse
24020 \let\@bidi@todonotes@textdirection\LRE
24021 \fi}
24022 \define@choicekey{todonotes}{figposition}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right,
24023 \ifcase\@bidi@todonotes@tempb\relax
24024 \@bidi@todonotes@figposition@righttrue
24025 \or
24026 \@bidi@todonotes@figposition@rightfalse
24027 \fi}
24028 \if@todonotes@disabled%
24029 \else % \if@todonotes@disabled
24030 \renewcommand{\@todonotes@drawInlineNote}{%
24031 \if@todonotes@dviStyle%
24032 {\par\noindent\begin{tikzpicture}[remember picture]%
24033 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
24034 \if@todonotes@authorgiven%
24035 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
24036 \else%
24037 {\noindent \@todonotes@sizecommand \@todonotes@text}%
24038 \fi
24039 {\par\noindent\begin{tikzpicture}[remember picture]%
24040 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
24041 \else%
24042 {\par\noindent\begin{tikzpicture}[remember picture]%
24043 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
24044 \draw node[inlinenotestyle,font=\@todonotes@sizecommand,align=\@bidi@todonotes@

```



```

24045         \if@todonotes@authorgiven%
24046             {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text%
24047             \else%
24048                 {\noindent \@todonotes@sizecommand \@todonotes@text}%
24049             \fi};%
24050         \end{tikzpicture}\par}%
24051     \fi}%
24052 \renewcommand{\@todonotes@drawMarginNoteWithLine}{%
24053 \begin{tikzpicture}[remember picture, overlay, baseline=-0.75ex]%
24054     \node [coordinate] (inText) {};%
24055 \end{tikzpicture}%
24056 \marginpar[{\% Draw note in left margin
24057     \@todonotes@drawMarginNote%
24058     \if@RTL\@todonotes@drawLineToRightMargin\else\@todonotes@drawLineToLeftMargin\fi%
24059 }]{\% Draw note in right margin
24060     \@todonotes@drawMarginNote%
24061     \if@RTL\@todonotes@drawLineToLeftMargin\else\@todonotes@drawLineToRightMargin\fi%
24062 }%
24063 }%
24064 \renewcommand{\@todonotes@drawMarginNote}{%
24065 \if@todonotes@dviStyle%
24066     \begin{tikzpicture}[remember picture]%
24067         \draw node[notestyle] {};%
24068     \end{tikzpicture}\\%
24069     \begin{minipage}{\@todonotes@textwidth}%
24070         \if@todonotes@authorgiven%
24071             \@todonotes@sizecommand \@todonotes@author \@todonotes@text%
24072         \else%
24073             \@todonotes@sizecommand \@todonotes@text%
24074         \fi%
24075     \end{minipage}\\%
24076     \begin{tikzpicture}[remember picture]%
24077         \draw node[notestyle] (inNote) {};%
24078     \end{tikzpicture}%
24079 \else%
24080     \let\originalHbadness\hbadness%
24081     \hbadness 10000%
24082     \begin{tikzpicture}[remember picture,baseline=(X.base)]%
24083         \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
24084         \node(X){\vphantom{X}};%
24085         \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@text};%
24086         \if@todonotes@authorgiven%
24087             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@sizecommand \@todonotes@author};%
24088             \node(Y)[below=of X]{};%
24089             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@text};%
24090         \else%
24091             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@text};%
24092         \fi%
24093     \end{tikzpicture}%
24094     \hbadness \originalHbadness%

```



```

24099 \fi}%
24100 \renewcommand{\missingfigure}[2] [] {%
24101 \setkeys{todonotes}{#1}%
24102 \addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: #2}%
24103 \par
24104 \noindent
24105 \begin{tikzpicture}
24106 \draw[fill=\@todonotes@currentfigcolor, draw = black!40, line width=2pt]
24107     (-2, -2.5) rectangle +(\@todonotes@currentfigwidth, \@todonotes@currentfigheight);
24108 \if@bidi@todonotes@figposition@right%
24109 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
24110 \fi%
24111 \draw[red, fill=white, rounded corners = 5pt, line width=10pt]
24112     (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
24113 \if@bidi@todonotes@figposition@right%
24114 \end{scope}
24115 \begin{scope}[xshift=-3.8cm]
24116 \fi%
24117 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
24118 \draw (2, -0.3) node[right, text
24119     width=\@todonotes@currentfigwidth-4.5cm, align=\@bidi@todonotes@align] {#2};
24120 \if@bidi@todonotes@figposition@right%
24121 \end{scope}
24122 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
24123 \fi%
24124 \draw (0, 0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@
24125 \draw (0, -0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@
24126 \if@bidi@todonotes@figposition@right%
24127 \end{scope}
24128 \fi%
24129 \end{tikzpicture}}\hfill
24130 }% Ending \missingfigure command
24131 \fi % Ending \@todonotes@ifdisabled
24132 \presetkeys%
24133     {todonotes}%
24134     {align=left,%
24135     textdirection=lefttoright,%
24136     figposition=left}{}%

```

## 160 File wrapfig-xetex-bidi.def

```

24137 \ProvidesFile{wrapfig-xetex-bidi.def}[2014/04/23 v0.3 bidi adaptations for wrapfig package f
24138 \let\WF@everypar\@everypar
24139 \def\WF@putfigmaybe{%
24140 \ifinner
24141 \vskip-\parskip \global\WF@floatfalse
24142 \let\pagetotal\maxdimen % kludge flag for "not top of page"
24143 \else % outer page
24144 \@tempdima\pagedepth % save page depth
24145 {\advance\parskip\@tempdima\if@RTL\advance\parskip\baselineskip\fi\vskip-\parskip}% back
24146 \penalty\interlinepenalty % update pg. parameters
24147 \@tempdima\pagegoal \advance\@tempdima-\pagetotal % room left on page
24148 \ifdim\@tempdima<\z@ % \WF@info{Page overfull already;}%
24149 \global\WF@floatfalse

```



```

24150     \ifdim-\@tempdimb>\pageshrink \else \pagebreak \fi
24151 \else
24152     \ifdim\WF@size>\@tempdimb
24153         \ifWF@float \dimen@.5\baselineskip \else \dimen@ 2\baselineskip\fi
24154         \ifdim\pagestretch>\dimen@ \dimen@\pagestretch \fi
24155         \ifdim\pagefilstretch>\z@ \dimen@\@tempdimb \fi
24156         \ifdim\pagefillstretch>\z@ \dimen@\@tempdimb \fi
24157         \advance\dimen@.5\baselineskip
24158         \ifdim\dimen@>\@tempdimb % \WF@info{Page nearly full; can stretch}%
24159             \global\WF@floatfalse \pagebreak
24160         \fi
24161     \else % \WF@info{Fits in \the\@tempdimb;}%
24162         \global\WF@floatfalse
24163     \fi\fi
24164     \vskip\@tempdima\relax % (return erased page depth)
24165 \fi
24166 \noindent
24167 \ifWF@float
24168     \WF@fltnes
24169 \else % putting here;
24170     \WF@info{Put \WF@wfname here:}%
24171     {\ifodd\if@twoside\c@page\else\@one\fi % assign l/r to i/o placement
24172         \lccode`i`l\lccode`o`r\else \lccode`i`r\lccode`o`l\fi
24173         \xdef\WF@place{\the\lccode\lccode\WF@place}}% twice to get only l or r
24174     \hbox to\z@{% llap or rlap depending on {l} or {r}; calc effective width
24175         \@tempdima\wd\WF@box \@tempdimb\WF@ovh
24176         \advance\@tempdima-\@tempdimb \advance\@tempdima\columnsep
24177         \@tempdimb\hsize \advance\@tempdimb-\@tempdima
24178         \xdef\WF@adjlw{\the\@tempdima}%
24179         \ifnum `l=\WF@place % fig on left
24180             \if@RTL%
24181                 \kern\@tempdimb \kern\columnsep
24182                 \def\@tempa{\hss}% position to left of the gap
24183             \else%
24184                 \hss % figure overlaps space to the left
24185                 \def\@tempa{\kern\columnsep}% position to left of the gap
24186             \fi%
24187         \else % fig on right
24188             \if@RTL%
24189                 \hss
24190                 \@tempdima\z@
24191                 \def\@tempa{\kern\columnsep}
24192             \else%
24193                 \@tempdima\z@ % no left indentation
24194                 \kern\@tempdimb \kern\columnsep
24195                 \def\@tempa{\hss}% figure overlaps space to the right
24196             \fi%
24197         \fi
24198     \ifdim\@tempdimb<\hsize
24199         \xdef\WF@wrapil{\the\@tempdima \the\@tempdimb}% indentation and length
24200         \xdef\WF@adjtlm{\the\@tempdima}%
24201     \else
24202         \xdef\WF@wrapil{\z@ \the\hsize}%
24203         \xdef\WF@adjlw{\z@}\xdef\WF@adjtlm{\z@}%

```



```

24204 \fi
24205 \ifdim\pagetotal=\z@ % \WF@info{Put \WF@wfname at top of p.\thepage}%
24206 \global\advance\WF@size-\intextsep
24207 \else % \WF@info{Putting \WF@wfname in middle of page}%
24208 \setbox\WF@box\hbox{\lower\intextsep\box\WF@box}%
24209 \fi \dp\WF@box\z@ \box\WF@box \@tempa
24210 }% end \hbox to Opt
24211 \aftergroup\WF@startwrapping % after the \endgroup which immediately follows
24212 \fi}

```

## 161 File xcolor-xetex-bidi.def

```

24213 \ProvidesFile{xcolor-xetex-bidi.def}[2022/06/13 v0.3 bidi adaptations for xcolor package for
24214 \long\def\color@b@x#1#2#3%
24215 {\leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
24216 \setbox\z@\hbox{\kern\fbboxsep\setcolor\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
24217 \dimen@ \ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
24218 \dimen@ \dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
24219 {\if#1#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}\box\z@}\ifmmode\else\if@RTL\endL\fi\fi}
24220 \protected\def\normalcolor{\let\currentcolor\defaultcolor\ifhmode\if@RTL\beginL\aftergroup
24221 \DeclareRobustCommand\color
24222 {\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi@ifnextchar[\@undeclaredcolor\@declaredcolor]}
24223 \def\@undeclaredcolor[#1]#2%
24224 {\begingroup
24225 \let\@ccls@empty
24226 \XC@getmodclr12{#1}{#2}{}}%
24227 {\ifblendcolors
24228 \ifx\colorblend\@empty\else
24229 \edef\@mix{\expandafter@gobble\colorblend}\@tempwafalse
24230 \XC@coremodel\@mod\@clr\@xcolor@{}{}\@mod\@clr
24231 \fi
24232 \fi
24233 \ifconvertcolorsU
24234 \edef\@tmp{\XC@tgt@mod{\@mod}}%
24235 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
24236 \fi
24237 \ifmaskcolors
24238 \convertcolorspec\@mod\@clr\XC@mmod\@clr
24239 \let\@mod\XC@mmod
24240 \XC@inflate\@mod\XC@mclr\@clr\@tmp
24241 \expandafter\XC@mul\@tmp,\@clr
24242 \fi
24243 \edef\@tmp{\noexpand\XC@undeclaredcolor{\@mod}{\@clr}}%
24244 \expandafter\endgroup\@tmp}}
24245 \def\@declaredcolor#1%
24246 {\XC@edef\XC@tmp{#1}\XC@tstfalse
24247 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
24248 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
24249 \ifconvertcolorsU\XC@tsttrue\fi
24250 \fi
24251 \ifXC@tst
24252 \expandafter\XC@declaredcolor\else
24253 \expandafter\XC@declaredcolor\fi}
24254 \def\XC@undeclaredcolor#1#2%

```



```

24255 {\@ifundefinedmodel{#1}%
24256 {\c@lor@error{model `#1'}}}%
24257 {\@nameuse{color@#1}\current@color{#2}%
24258 \edef\XC@current@color{\noexpand\xcolor@{}{\current@color}{#1}{#2}}%
24259 \XC@display}\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
24260 \def\XC@declaredc@lor
24261 {\XC@let@Nc\XC@current@color{\string\color@\XC@@tmp}%
24262 \edef\current@color{\XC@current@color}%
24263 \XC@display\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
24264 \DeclareRobustCommand\bidicolor
24265 {\@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
24266 \def\@bidiundeclaredcolor[#1]#2%
24267 {\begingroup
24268 \let\@c@ls@empty
24269 \XC@getmodclr12{#1}{#2}{}}%
24270 {\ifblendcolors
24271 \ifx\colorblend\@empty\else
24272 \edef\@mix{\expandafter@gobble\colorblend}\@tempswafalse
24273 \XC@coremodel\@mod\@clr\xcolor@{}{\@mod\@clr
24274 \fi
24275 \fi
24276 \ifconvertcolorsU
24277 \edef\@tmp{\XC@tgt@mod{\@mod}}%
24278 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
24279 \fi
24280 \ifmaskcolors
24281 \convertcolorspec\@mod\@clr\XC@mmod\@clr
24282 \let\@mod\XC@mmod
24283 \XC@inflate\@mod\XC@mclr\@clr\@tmp
24284 \expandafter\XC@mul\@tmp,\@clr
24285 \fi
24286 \edef\@tmp{\noexpand\XC@bidiundeclaredcolor{\@mod}{\@clr}}%
24287 \expandafter\endgroup\@tmp}}
24288 \def\XC@bidiundeclaredcolor#1#2%
24289 {\@ifundefinedmodel{#1}%
24290 {\c@lor@error{model `#1'}}}%
24291 {\@nameuse{color@#1}\current@color{#2}%
24292 \edef\XC@current@color{\noexpand\xcolor@{}{\current@color}{#1}{#2}}%
24293 \XC@display}}
24294 \def\@bidideclaredcolor#1%
24295 {\XC@edef\XC@@tmp{#1}\XC@@tstfalse
24296 \ifcase\XC@type\XC@@tmp\relax \XC@@tsttrue\or \relax\else
24297 \ifblendcolors\XC@@tsttrue\fi \ifmaskcolors\XC@@tsttrue\fi
24298 \ifconvertcolorsU\XC@@tsttrue\fi
24299 \fi
24300 \ifXC@@tst
24301 \expandafter\XC@bidideclaredcolor\else
24302 \expandafter\XC@bidideclaredc@lor\fi}
24303 \def\XC@bidideclaredcolor
24304 {\XC@split\XC@@tmp
24305 \edef\@tmp{\noexpand\@bidiundeclaredcolor[\@mod]{\@clr}}%
24306 \expandafter\endgroup\@tmp}
24307 \def\XC@bidideclaredc@lor
24308 {\XC@let@Nc\XC@current@color{\string\color@\XC@@tmp}%

```





```

24309 \edef\current@color{\XC@current@color}%
24310 \XC@display}
24311 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
24312 \def\color@fbbox#1#2#3#4{\protect\color@fb@x{#1}{#2}{#3}}
24313 \def\color@fb@x#1#2#3#4%
24314 {\color@b@x{\fbboxsep\z@\bidicolor#1{#2}\XC@fbbox}%
24315 {\@ifxempty{#3}{\bidicolor#1}{\bidicolor#3}{#4}}}
24316 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode

```

## 162 File latex-xetex-bidi.def

```

24317 \ProvidesFile{latex-xetex-bidi.def}[2022/07/04 v1.4.9 bidi adaptations for `latex.ltx'for
24318 \newcommand{\TeXXeTOn}{\TeXXeTstate@ne}
24319 \newcommand{\TeXXeTOff}{\TeXXeTstate@z@}
24320 \TeXXeTOn
24321 \def\ bidi@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebo
24322 \let\ bidi@o@everypar=\everypar
24323 \newtoks\ bidi@n@everypar
24324 \ bidi@n@everypar\expandafter{\the\ bidi@o@everypar}
24325 \ bidi@o@everypar{\ bidi@RTL@everypar\the\ bidi@n@everypar}
24326 \let\ everypar=\ bidi@n@everypar
24327 \def\ moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
24328 \def\ moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
24329 \protected\def\ hboxR{\hbox\bgroup
24330 \everyhbox{%
24331 \aftergroup\egroup
24332 \everyhbox{}%
24333 \beginR
24334 \@hboxRconstructtrue
24335 \bgroup
24336 \aftergroup\endR
24337 \aftergroup\egroup
24338 }\hbox}
24339 \protected\def\ hboxL{\hbox\bgroup
24340 \everyhbox{%
24341 \aftergroup\egroup
24342 \everyhbox{}%
24343 \beginL
24344 \@hboxRconstructfalse
24345 \bgroup
24346 \aftergroup\endL
24347 \aftergroup\egroup
24348 }\hbox}
24349 \protected\def\ vboxR{\vbox\bgroup
24350 \everyvbox{%
24351 \aftergroup\egroup
24352 \everyvbox{}%
24353 \@RTLtrue
24354 \@RTLtabtrue
24355 \bgroup
24356 \aftergroup\egroup
24357 }\vbox}
24358 \protected\def\ vboxL{\vbox\bgroup
24359 \everyvbox{%

```



```

24360 \aftergroup\egroup
24361 \everyvbox{}%
24362 \@RTLfalse
24363 \@RTLtabfalse
24364 \bgroup
24365 \aftergroup\egroup
24366 }\vbox}
24367 \newcommand*{\bidi@leftskip}{\if@RTL\rightskip\else\leftskip\fi}
24368 \newcommand*{\bidi@rightskip}{\if@RTL\leftskip\else\rightskip\fi}
24369 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\hsize\linewidth\parshape\z@\bidi@beamer}
24370 \def\endLTR{\par}
24371 \newenvironment{LTR*}{\LTR
24372 \everypar{%
24373     {\setbox\z@\lastbox
24374       \ifvoid\z@
24375         \kern-\parindent
24376       \fi}%
24377 }%
24378 }\endLTR\@endpetrue}
24379 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\@RTLtabtrue\hsize\linewidth\parshape\z@\bidi@beamer}
24380 \def\endRTL{\par}
24381 \newenvironment{RTL*}{\RTL
24382 \everypar{%
24383     {\setbox\z@\lastbox
24384       \ifvoid\z@
24385         \kern-\parindent
24386       \fi}%
24387 }%
24388 }\endRTL\@endpetrue}
24389 \def\setRTL{\@RTLtrue\@RTL@footnotetrue\@RTLtabtrue\bidi@beamer@ragged}
24390 \def\setLTR{\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\bidi@beamer@ragged}
24391 \let\unsetRTL=\setRTL
24392 \let\unsetLTR=\setLTR
24393 \let\LR=\LRE
24394 \let\RL=\RLE
24395 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
24396 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
24397 \let\@ensure@RL=\@ensure@RTL
24398 \let\@ensure@LR=\@ensure@LTR
24399 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
24400 \let\@ensure@maindir=\@ensure@dir
24401 \def\@RTL{RTL}
24402 \def\@LTR{LTR}
24403 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
24404 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
24405 \let\@TeX\TeX
24406 \def\TeX{\@ensure@LTR{\@TeX}}
24407 \let\@LaTeX\LaTeX
24408 \def\LaTeX{\@ensure@LTR{\@LaTeX}}
24409 \let\@LaTeXe\LaTeXe
24410 \def\LaTeXe{\@ensure@LTR{\@LaTeXe}}
24411 \long\def\bidi@reflect@box#1{%
24412     \leavevmode
24413     \setbox\z@\hbox{#1}}%

```



```

24414 \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore
24415 \hb@xt@\wd\z@{\kern\wd\z@\box\tw@\hss}%
24416 }
24417 \bidi@newrobustcmd*{\XeTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
24418 \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
24419 \bidi@newrobustcmd*{\XeLaTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
24420 \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \LaTeX}}$}}
24421 \let\setRL=\setRTL
24422 \let\setLR=\setLTR
24423 \let\unsetRL=\setLTR
24424 \def\bidi@tabular@RTLcases{\let\@halignto\@empty\@bidi@tabular@RTLcases}
24425 \ifpackageloaded{array}{%
24426 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
24427 \leavevmode
24428 \hbox \bgroup $\left.\col@sep\tabcolsep \let\d@llarbegin\begin\group
24429 \let\d@llarend\end\group
24430 \@tabarray}
24431 \def\endbidi@tabular@RTLcases{\endarray \right\rbrace$\egroup}
24432 }{%
24433 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
24434 \leavevmode \hbox \bgroup
24435 $\left.\let\@acol\@tabacol
24436 \let\@classz\@tabclassz
24437 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
24438
24439 \def\endbidi@tabular@RTLcases{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
24440 \egroup\right\rbrace $\egroup}}
24441 \def\RTLcases#1{\left.\vcenter{\normalbaselines\m@th
24442 \ialign{##\hfil$\&\quad{##}\hfil\crr#1\crr}}\,\right\}}
24443 \renewenvironment{RTLcases}{%
24444 \bidi@matrix@check\RTLcases\env@RTLcases
24445 }{%
24446 \endbidi@tabular@RTLcases%
24447 }
24448 \def\env@RTLcases{%
24449 \let\@ifnextchar\bidi@new@ifnextchar
24450 \def\arraystretch{1.2}%
24451 \bidi@tabular@RTLcases{@}{r@{\quad}r@{}}%
24452 }
24453 \def\SepMark#1{\gdef\@SepMark{#1}}
24454 \SepMark{.}
24455 \def\@thmcountersep{\@SepMark}
24456 \def\setRTLbibitems{\@RTLbibitemstrue\@LTRbibitemsfalse}
24457 \def\setLTRbibitems{\@LTRbibitemstrue\@RTLbibitemsfalse}
24458 \def\setdefaultbibitems{\@RTLbibitemsfalse\@LTRbibitemsfalse}
24459 \newcommand*{\bidi@thebibliography@font@hook}{ }
24460 \def\list#1#2{%
24461 \ifnum \@listdepth >5\relax
24462 \@toodeep
24463 \else
24464 \global\advance\@listdepth\@ne
24465 \fi
24466 \rightmargin\z@
24467 \listparindent\z@

```



```

24468 \itemindent\z@
24469 \csname @list\romannumeral\the\@listdepth\endcsname
24470 \def\@itemlabel{#1}%
24471 \let\makelabel\@mklab
24472 \@nmbrrlistfalse
24473 #2\relax
24474 \@trivlist
24475 \parskip\parsep
24476 \parindent\listparindent
24477 \advance\linewidth -\rightmargin
24478 \advance\linewidth -\leftmargin
24479 \if@bidi@list@minipage@parbox
24480 \if@RTL
24481 \advance\@totalleftmargin \leftmargin
24482 \else
24483 \advance\@totalleftmargin \rightmargin
24484 \fi
24485 \else
24486 \if@hboxRconstruct
24487 \if@bidi@list@minipage@parbox@not@nob
24488 \if@RTL
24489 \advance\@totalleftmargin \rightmargin
24490 \else
24491 \advance\@totalleftmargin \leftmargin
24492 \fi
24493 \else
24494 \if@RTL
24495 \advance\@totalleftmargin \leftmargin
24496 \else
24497 \advance\@totalleftmargin \rightmargin
24498 \fi\fi
24499 \else
24500 \if@RTL
24501 \advance\@totalleftmargin \rightmargin
24502 \else
24503 \advance\@totalleftmargin \leftmargin
24504 \fi\fi\fi
24505 \parshape \@ne \@totalleftmargin \linewidth
24506 \ignorespaces}
24507 \long\def\@iiiparbox#1#2[#3]#4#5{%
24508 \leavevmode
24509 \@pboxswfalse
24510 \if@hboxRconstruct
24511 \@bidi@list@minipage@parbox@not@nobtrue
24512 \fi
24513 \if@RTL
24514 \ifx#1t%
24515 \@bidi@list@minipage@parboxtrue
24516 \else
24517 \ifx#1b%
24518 \@bidi@list@minipage@parboxtrue
24519 \fi
24520 \fi
24521 \fi

```



```

24522 \setlength\@tempdima{#4}%
24523 \@begin@tempboxa\vbox{\hsize\@tempdima\@parboxrestore#5\@par}%
24524 \ifx\relax#2\else
24525 \setlength\@tempdimb{#2}%
24526 \edef\@parboxto{to\the\@tempdimb}%
24527 \fi
24528 \if#1b\vbox
24529 \else\if #1t\vtop
24530 \else\ifmmode\vcenter
24531 \else\@pboxswtrue $\vcenter
24532 \fi\fi\fi
24533 \@parboxto{\let\hss\vss\let\unhbox\unvbox
24534 \csname bm@#3\endcsname}%
24535 \if@pboxsw \m@th$\fi
24536 \@end@tempboxa}
24537 \newenvironment{LTRitems}
24538 {\par\@RTLfalse\@RTLtabfalse\@bidi@beamer@ragged
24539 \if@bidi@list@minipage@parbox
24540 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
24541 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24542 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
24543 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24544 \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24545 \ignorespaces}{\vskip\z@}
24546 \newenvironment{RTLitems}
24547 {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
24548 \if@bidi@list@minipage@parbox
24549 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
24550 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24551 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
24552 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24553 \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24554 \ignorespaces}{\vskip\z@}
24555 \newenvironment{LTRbibitems}
24556 {\par\@RTLfalse\@RTLtabfalse\@bidi@beamer@ragged
24557 \if@bidi@list@minipage@parbox
24558 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
24559 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24560 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
24561 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24562 \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24563 \ignorespaces}{\vskip\z@}
24564 \newenvironment{RTLbibitems}
24565 {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
24566 \if@bidi@list@minipage@parbox
24567 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
24568 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24569 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
24570 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24571 \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24572 \ignorespaces}{\vskip\z@}
24573 \def\raggedright{%
24574 \let\\\@centercr\@rightskip\@flushglue \rightskip\@rightskip
24575 \leftskip\z@skip

```



```

24576 \parindent\z@\parfillskip\z@skip}
24577 \let\bidiorig@raggedleft\raggedleft
24578 \let\bidiorig@raggedright\raggedright
24579 \renewcommand\raggedleft{\if@bidi@list@minipage@parbox\bidiorig@raggedright\else\if@hboxRco
24580 \renewcommand\raggedright{\if@bidi@list@minipage@parbox\bidiorig@raggedleft\else\if@hboxRco
24581 \newcommand{\bidioraggedright}{\if@RTL\raggedleft\else\raggedright\fi}
24582 \newcommand{\bidioraggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
24583 \def\centerline#1{%
24584 \if@RTL\@@line{\hss\beginR#1\endR\hss}
24585 \else\@@line{\hss#1\hss}\fi}
24586 \def\leftline#1{%
24587 \if@RTL\@@line{\beginR#1\endR\hss}
24588 \else\@@line{#1\hss}\fi}
24589 \def\rightline#1{%
24590 \if@RTL\@@line{\hss\beginR#1\endR}
24591 \else\@@line{\hss#1}\fi}
24592 \let\bidiorig@leftline\leftline
24593 \let\bidiorig@rightline\rightline
24594 \def\leftline#1{\ifhmode\if@RTL\bidiorig@rightline{#1}\else\bidiorig@leftline{#1}\fi\else\
24595 \def\rightline#1{\ifhmode\if@RTL\bidiorig@leftline{#1}\else\bidiorig@rightline{#1}\fi\else\
24596 \def\bidirlap#1{\hb@xt@{z@}{\if@RTL\hss\fi#1\if@RTL\else\hss\fi}}
24597 \def\bidillap#1{\hb@xt@{z@}{\if@RTL\else\hss\fi#1\if@RTL\hss\fi}}
24598 \def\hangfrom#1{\setbox\@tempboxa\hbox{#{#1}}}%
24599 \hangindent \if@RTL-\else\fi\wd\@tempboxa\noindent\box\@tempboxa}
24600 \def\narrower{%
24601 \advance\if@RTL\rightskip\else\leftskip\fi\parindent
24602 \advance\if@RTL\leftskip\else\rightskip\fi\parindent}
24603 \def\underline#1{%
24604 \relax
24605 \ifmmode\@@underline{#1}%
24606 \else
24607 \if@RTL $\@@underline{\hbox{\beginR#1\endR}}\m@th$\relax
24608 \else
24609 $\@@underline{\hbox{#1}}\m@th$\relax\fi\fi}
24610 \if@compatibility
24611 \let\undertext=\underline
24612 \fi
24613 \def\@tabular{%
24614 \leavevmode \hbox \bgroup \if@RTLtab\beginR \fi
24615 $\let\@acol\@tabacol
24616 \let\@classz\@tabclassz
24617 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
24618 \def\endtabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
24619 \egroup $\if@RTLtab\endR\fi\egroup}
24620 \expandafter \let \csname endtabular*\endcsname = \endtabular
24621 \def\@array[#1]#2{%
24622 \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
24623 \bgroup
24624 \setbox\@arstrutbox\hbox{%
24625 \vrule \@height\arraystretch\ht\strutbox
24626 \@depth\arraystretch \dp\strutbox
24627 \@width\z@}%
24628 \mkpream{#2}%
24629 \edef\@preamble{%

```



```

24630 \ialign \noexpand\@halignto
24631 \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
24632 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
24633 \let\@tabularnewline\%
24634 \let\par\@empty
24635 \let\@sharp##%
24636 \set@typeset@protect
24637 \lineskip\z@skip\baselineskip\z@skip
24638 \ifhmode \@preamerr\z@ \@par\fi
24639 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
24640 \@preamble}
24641 \def\array{\let\@acol\@arrayacol \let\@classz\@arrayclassz
24642 \let\@classiv\@arrayclassiv
24643 \let\\\@arraycr\let\@halignto\@empty\@RTLtabfalse\@tabarray}
24644 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
24645 \ifnum \@lastchclass=3 5 \else
24646 \z@ \if #1c\@chnum \z@ \else
24647 \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
24648 \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
24649 \@chclass \if #1|\@ne \else
24650 \if #1@\tw@ \else
24651 \if #1p3 \else \z@ \@preamerr 0\fi
24652 \fi \fi \fi \fi \fi \fi
24653 \fi}
24654 \def\bm@l{\if@RTL\hss\unhbox\@tempboxa\else\unhbox\@tempboxa\hss\fi}
24655 \def\bm@r{\if@RTL\unhbox\@tempboxa\hss\else\hss\unhbox\@tempboxa\fi}
24656 \def\bm@t{\unhbox\@tempboxa\hss}
24657 \def\bm@b{\hss\unhbox\@tempboxa}
24658 \def\@dottedtocline#1#2#3#4#5{%
24659 \ifnum #1>\c@tocdepth \else
24660 \vskip \z@ \@plus.2\p@
24661 {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocma
24662 \parindent #2\relax\@afterindenttrue
24663 \interlinepenalty\@M
24664 \leavevmode
24665 \@tempdima #3\relax
24666 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24667 {#4}\nobreak
24668 \leaders\hbox{$\m@th
24669 \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
24670 mu$}\hfill
24671 \nobreak
24672 \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
24673 \par}%
24674 \fi}
24675
24676 \newcount\@bidi@column@check@number
24677
24678 \def\@bidi@column@status#1{\gdef\@bidi@current@column@status{#1}}
24679
24680 \def\@bidi@set@column@status#1#2{%
24681 \global\expandafter\let\csname #1\endcsname\@bidi@current@column@status}
24682
24683 \if@twocolumn

```



```

24684 \newcommand\DetectColumn[3][1]{%
24685 \ifx\ bidi@firstcolumn@status@write\relax
24686 \PackageError{bidi}%
24687 {Option 'DetectColumn' not selected}%
24688 {\string\DetectColumn\space
24689 requires the use of the 'DetectColumn'
24690 option on the package}%
24691 \fi
24692 \global\advance\ bidi@column@check@number\@ne
24693 \edef\ bidi@column@type{\expandafter\ifx
24694 \csname bidi@column-\the\ bidi@column@check@number\endcsname\relax
24695 0\else
24696 \csname bidi@column-\the\ bidi@column@check@number\endcsname
24697 \fi}%
24698 \ifcase \ bidi@column@type\relax
24699 \ifcase #1\or #2\or #3\fi % 0 not known use first column as default
24700 \or
24701 #2% % 1 First column
24702 \or
24703 #3% % 2 Second (Last column)
24704 \else
24705 \ERROR
24706 \fi
24707 \edef\next{\write\@auxout
24708 {\string\ bidi@set@column@status{\ bidi@column-\the\ bidi@column@check@number}}%
24709 {\ bidi@column@type}}}%
24710 \next
24711 }
24712
24713 \AtEndDocument{\def\ bidi@set@column@status#1#2{%
24714 \ifnum #2=\ bidi@current@column@status\else
24715 \@tempwattrue
24716 \fi}%
24717 }
24718 \fi
24719
24720 \def\RTL@outputdblcol{%
24721 \if@firstcolumn
24722 \global\@firstcolumnfalse
24723 \global\setbox\@leftcolumn\copy\@outputbox
24724 \splitmaxdepth\maxdimen
24725 \vbadness\maxdimen
24726 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
24727 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
24728 \toks@\expandafter{\topmark}%
24729 \xdef\@firstcoltopmark{\the\toks@}%
24730 \toks@\expandafter{\splitfirstmark}%
24731 \xdef\@firstcolfirstmark{\the\toks@}%
24732 \ifx\@firstcolfirstmark\@empty
24733 \global\let\@setmarks\relax
24734 \else
24735 \gdef\@setmarks{%
24736 \let\firstmark\@firstcolfirstmark
24737 \let\topmark\@firstcoltopmark}%

```





```

24738 \fi
24739 \else
24740 \global\@firstcolumntrue
24741 \setbox\@outputbox\vbox{%
24742 \hb@xt@\textwidth{%
24743 \hskip \columnwidth
24744 \hfil
24745 {\normalcolor\vrule \@width\columnseprule}%
24746 \hfil
24747 \hb@xt@\columnwidth{%
24748 \bidi@firstcolumn@status@write%
24749 \box\@leftcolumn \hss}%
24750 \hskip -\textwidth
24751 \hb@xt@\columnwidth{%
24752 \bidi@lastcolumn@status@write%
24753 \box\@outputbox \hss}%
24754 \hskip \columnsep
24755 \hskip \columnwidth }}%
24756 \@combinedblfloats
24757 \@setmarks
24758 \@outputpage
24759 \begingroup
24760 \@dblfloatplacement
24761 \@startdblcolumn
24762 \@whiles\if@fcolmade \fi{\@outputpage
24763 \@startdblcolumn}%
24764 \endgroup
24765 \fi}%
24766
24767 \def\LTR@outputdblcol{%
24768 \if@firstcolumn
24769 \global\@firstcolumnfalse
24770 \global\setbox\@leftcolumn\copy\@outputbox
24771 \splitmaxdepth\maxdimen
24772 \vbadness\maxdimen
24773 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
24774 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
24775 \toks@\expandafter{\topmark}%
24776 \xdef\@firstcoltopmark{\the\toks@}%
24777 \toks@\expandafter{\splitfirstmark}%
24778 \xdef\@firstcolfirstmark{\the\toks@}%
24779 \ifx\@firstcolfirstmark\@empty
24780 \global\let\@setmarks\relax
24781 \else
24782 \gdef\@setmarks{%
24783 \let\firstmark\@firstcolfirstmark
24784 \let\topmark\@firstcoltopmark}%
24785 \fi
24786 \else
24787 \global\@firstcolumntrue
24788 \setbox\@outputbox\vbox{%
24789 \hb@xt@\textwidth{%
24790 \hb@xt@\columnwidth{%
24791 \bidi@firstcolumn@status@write%

```



```

24792      \box\@leftcolumn \hss}%
24793      \hfil
24794      {\normalcolor\vrule \@width\columnseprule}%
24795      \hfil
24796      \hb@xt@\columnwidth{%
24797      \bidi@lastcolumn@status@write%
24798      \box\@outputbox \hss}}}%
24799 \@@combinedblfloats
24800   \@@setmarks
24801   \@@outputpage
24802   \begin@group
24803   \@@dblfloatplacement
24804   \@@startdblcolumn
24805   \@@whilesw\if@fcolmade \fi{\@@outputpage
24806   \@@startdblcolumn}%
24807   \end@group
24808 \fi}%
24809
24810
24811 \renewcommand{\@@outputdblcol}{\if@RTLmain\RTL@outputdblcol\else\LTR@outputdblcol\fi}
24812 \newcommand{\RTLdblcol}{\renewcommand{\@@outputdblcol}{\RTL@outputdblcol}}
24813 \newcommand{\LTRdblcol}{\renewcommand{\@@outputdblcol}{\LTR@outputdblcol}}
24814
24815 \bidi@patchcmd\@makecol{%
24816   \ifvoid\footins
24817     \setbox\@outputbox \box\@cclv
24818   \else
24819     \setbox\@outputbox \vbox {%
24820       \boxmaxdepth \@maxdepth
24821       \unvbox \@cclv
24822       \vskip \skip\footins
24823       \color@begingroup
24824       \normalcolor
24825       \footnoterule
24826       \unvbox \footins
24827       \color@endgroup
24828     }%
24829   \fi
24830 }{%
24831   \ifvoid\footins
24832     \ifvoid\@bidi@copyins@
24833       \setbox\@outputbox \box\@cclv
24834     \else
24835       \setbox\@outputbox \vbox {%
24836         \boxmaxdepth \@maxdepth
24837         \unvbox \@cclv
24838         \vskip \skip\@bidi@copyins@
24839         \color@begingroup
24840         \normalcolor
24841         \unvbox \@bidi@copyins@
24842         \color@endgroup
24843       }%
24844     \fi
24845   \else

```



```

24846 \setbox\@outputbox \vbox {%
24847 \boxmaxdepth \@maxdepth
24848 \unvbox \@cclv
24849 \vskip \skip\footins
24850 \color@begingroup
24851 \normalcolor
24852 \footnoterule
24853 \unvbox \footins
24854 \color@endgroup
24855 \ifvoid\@bidi@copyins@
24856 \else
24857 \vskip \skip\@bidi@copyins@
24858 \color@begingroup
24859 \normalcolor
24860 \unvbox \@bidi@copyins@
24861 \color@endgroup
24862 \fi
24863 }%
24864 \fi
24865 }{}{}
24866
24867 \def\LTRmarginpar{%
24868 \ifhmode
24869 \@bsphack
24870 \@floatpenalty -\@Mii
24871 \else
24872 \@floatpenalty-\@Miii
24873 \fi
24874 \ifinner
24875 \@parmoderr
24876 \@floatpenalty\z@
24877 \else
24878 \@next\@currbox\@freelist{}{}%
24879 \@next\@marbox\@freelist{global\count\@marbox\m@ne}%
24880 {\@floatpenalty\z@
24881 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
24882 \fi
24883 \@ifnextchar [\@LTRxmpar\@LTRympar}
24884 \long\def\@LTRxmpar[#1]#2{%
24885 \@LTRsavemarbox\@marbox{#1}%
24886 \@LTRsavemarbox\@currbox{#2}%
24887 \@xympar}
24888 \long\def\@LTRympar#1{%
24889 \@LTRsavemarbox\@marbox{#1}%
24890 \global\setbox\@currbox\copy\@marbox
24891 \@xympar}
24892 \long\def \@LTRsavemarbox #1#2{%
24893 \global\setbox #1%
24894 \color@vbox
24895 \vtop{%
24896 \hsize\marginparwidth
24897 \@parboxrestore
24898 \@LTRmarginparreset
24899 #2%

```



```

24900         \@minipagefalse
24901         \outer@nobreak
24902     }%
24903     \color@endbox
24904 }
24905 \def \@LTRmarginparreset {%
24906     \reset@font
24907     \normalsize
24908     \@minipagetrue
24909     \everypar{\@minipagefalse\everypar{}\beginL}%
24910 }
24911 \def\RTLmarginpar{%
24912     \ifhmode
24913         \@bsphack
24914         \@floatpenalty -\@Mii
24915     \else
24916         \@floatpenalty-\@Miii
24917     \fi
24918     \ifinner
24919         \@parmoderr
24920         \@floatpenalty\z@
24921     \else
24922         \@next\@currbox\@freelist{}\{}%
24923         \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
24924         {\@floatpenalty\z@
24925         \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}}%
24926     \fi
24927     \ifnextchar [\@RTLxmpar\@RTLympar}
24928 \long\def\@RTLxmpar[#1]#2{%
24929     \@RTLSavemarbox\@marbox{#1}%
24930     \@RTLSavemarbox\@currbox{#2}%
24931     \@xympar}
24932 \long\def\@RTLympar#1{%
24933     \@RTLSavemarbox\@marbox{#1}%
24934     \global\setbox\@currbox\copy\@marbox
24935     \@xympar}
24936 \long\def \@RTLSavemarbox #1#2{%
24937     \global\setbox #1%
24938     \color@vbox
24939     \vtop{%
24940         \hsize\marginparwidth
24941         \@parboxrestore
24942         \@RTLmarginparreset
24943         #2%
24944         \@minipagefalse
24945         \outer@nobreak
24946     }%
24947     \color@endbox
24948 }
24949 \def \@RTLmarginparreset {%
24950     \reset@font
24951     \normalsize
24952     \@minipagetrue
24953     \everypar{\@minipagefalse\everypar{}\beginR}%

```



```

24954 }
24955 \def\addmarginpar{\@next\@marbox\@currlist{\@cons\@freelist\@marbox
24956   \@cons\@freelist\@currbox}\@latexbug\@tempcnta\@ne
24957   \if@twocolumn
24958     \if@firstcolumn \@tempcnta\m@ne \fi
24959   \else
24960     \if@mparswitch
24961       \ifodd\c@page \else\@tempcnta\m@ne \fi
24962     \fi
24963     \if@reversemargin \@tempcnta -\@tempcnta \fi
24964   \fi
24965   \ifnum\@tempcnta <\z@ \global\setbox\@marbox\box\@currbox \fi
24966   \@tempdima\@mparbottom
24967   \advance\@tempdima -\@pageht
24968   \advance\@tempdima\ht\@marbox
24969   \ifdim\@tempdima >\z@
24970     \@latex@warning@no@line {Marginpar on page \thepage\space moved}%
24971   \else
24972     \@tempdima\z@
24973   \fi
24974   \global\@mparbottom\@pageht
24975   \global\advance\@mparbottom\@tempdima
24976   \global\advance\@mparbottom\dp\@marbox
24977   \global\advance\@mparbottom\marginparpush
24978   \advance\@tempdima -\ht\@marbox
24979   \global\setbox \@marbox
24980     \vbox {\vskip \@tempdima
24981       \box \@marbox}%
24982   \global \ht\@marbox \z@
24983   \global \dp\@marbox \z@
24984   \kern -\@pagedp
24985   \nointerlineskip
24986   \hb@xt@\columnwidth
24987     {\if@RTL\if@LTRmarginpar\beginL\else\beginR\fi\else\if@RTLmarginpar\beginR\else\beginL
24988       \hskip\columnwidth \hskip\marginparsep
24989     \else
24990       \hskip -\marginparsep \hskip -\marginparwidth
24991     \fi
24992     \box\@marbox \hss\if@RTL\if@LTRmarginpar\endL\else\endR\fi\else\if@RTLmarginpar\endR
24993   \nointerlineskip
24994   \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}}
24995 \long\def\@ympar#1{%
24996   \@savemarbox\@marbox{\if@RTL\if@LTRmarginpar\@RTLfalse\else\@RTLtrue\fi\else\if@RTLmarginpar
24997   \global\setbox\@currbox\copy\@marbox
24998   \@xympar}
24999 \def\setRTLmarginpar{\@RTLmarginpartrue\@LTRmarginparfalse}
25000 \def\setLTRmarginpar{\@LTRmarginpartrue\@RTLmarginparfalse}
25001 \def\setdefaultmarginpar{\@RTLmarginparfalse\@LTRmarginparfalse}
25002 \def\@stopline{\unskip\@stopfield\if@rjfield \global\@rjfieldfalse
25003   \@tempdima\@totalleftmargin \advance\@tempdima\linewidth
25004 \hbox to\@tempdima{\if@RTL\beginR\fi\@itemfudge\hskip\dimen\@curtabmar
25005   \box\@curline\hfil\box\@curfield\if@RTL\endR\fi}\else\@addfield
25006   \hbox to\linewidth{\if@RTL\beginR\fi\@itemfudge
25007   \hskip\dimen\@curtabmar\box\@curline\hfil\if@RTL\endR\fi}}%

```



```

25008 \fi}
25009
25010 \newcommand*{\bidi@font@@outputpage}{}
25011
25012 \def\@outputpage{%
25013 \begingroup          % the \endgroup is put in by \aftergroup
25014 \let \protect \noexpand
25015 \@resetactivechars
25016 \global\let\@if@newlist@if@newlist
25017 \global\@newlistfalse
25018 \@parboxrestore
25019 \global\let\bidi@BeforeOutputPageShipOut\@firstofone
25020 \bidi@beforeoutputpageshipouthook
25021 \shipout \vbox{%
25022   \set@typeset@protect
25023   \aftergroup \endgroup
25024   \aftergroup \set@typeset@protect
25025                               % correct? or just restore by ending
25026                               % the group?
25027 \if@specialpage
25028   \global\@specialpagefalse\@nameuse{ps@\@specialstyle}%
25029 \fi
25030 \if@twoside
25031   \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot
25032   \ifRTLmain
25033     \let\@themargin\evensidemargin
25034   \else
25035     \let\@themargin\oddsidemargin
25036   \fi
25037 \else \let\@thehead\@evenhead \let\@thefoot\@evenfoot
25038   \ifRTLmain
25039     \let\@themargin\oddsidemargin
25040   \else
25041     \let\@themargin\evensidemargin
25042   \fi
25043 \fi
25044 \ifx\@thehead\@empty \let\@thehead\hfil \fi
25045 \ifx\@thefoot\@empty \let\@thefoot\hfil \fi
25046 \else %% not @twoside
25047   \ifx\@oddhead\@empty \let\@thehead\hfil \fi
25048   \ifx\@oddfoot\@empty \let\@thefoot\hfil \fi
25049 \fi
25050 \reset@font
25051 \normalsize
25052 \bidi@font@@outputpage
25053 \normalsfcodes
25054 \let\label\@gobble
25055 \let\index\@gobble
25056 \let\glossary\@gobble
25057 \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
25058 \@begindvi
25059 \vskip \topmargin
25060 \moveright\@themargin \vbox {%
25061   \global\let\bidi@BeforeHeader\@firstofone

```



```

25062 \bidi@beforeheaderhook
25063 \setbox\@tempboxa \vbox to\headheight{%
25064 \vfil
25065 \color@hbox
25066 \normalcolor
25067 \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thehead\if@
25068 \color@endbox
25069 }% %% 22 Feb 87
25070 \dp\@tempboxa \z@
25071 \box\@tempboxa
25072 \vskip \headsep
25073 \global\let\bidi@BeforeOutputBoxOutputPage\@firstofone
25074 \bidi@beforeoutputboxoutputpagehook
25075 \box\@outputbox
25076 \global\let\bidi@AfterOutputBoxOutputPage\@firstofone
25077 \bidi@afteroutputboxoutputpagehook
25078 \global\let\bidi@BeforeFooter\@firstofone
25079 \bidi@beforefooterhook
25080 \baselineskip \footskip
25081 \color@hbox
25082 \normalcolor
25083 \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thefoot\if@
25084 \color@endbox
25085 \global\let\bidi@AfterFooter\@firstofone
25086 \bidi@afterfooterhook
25087 }%
25088 }%
25089 \global\let\bidi@AfterOutputPageShipOut\@firstofone
25090 \bidi@afteroutputpageshipouthook
25091 \global\let\if@newlist\@if@newlist
25092 \global \colht \textheight
25093 \stepcounter{page}%
25094 \let\firstmark\botmark
25095 \global\let\bidi@AtEndOutputPage\@firstofone
25096 \bidi@atendoutputpagehook
25097 }
25098 \long\def\@makecaption#1#2{%
25099 \vskip\abovcaptionskip
25100 \sbox\@tempboxa{#1: #2}%
25101 \ifdim \wd\@tempboxa >\hsize
25102 \if@RTL\beginR\fi#1: #2\if@RTL\endR\fi\par
25103 \else
25104 \global \@minipagefalse
25105 \hb@xt@\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}%
25106 \fi
25107 \vskip\belowcaptionskip}
25108 \let\bidi@saved@eqno=\eqno
25109 \let\bidi@saved@leqno=\leqno
25110 \def\eqno{\ifnum\predisplaydirection<\z@ \bidi@saved@leqno \else \bidi@saved@eqno \fi}
25111 \def\leqno{\ifnum\predisplaydirection<\z@ \bidi@saved@eqno \else \bidi@saved@leqno \fi}
25112 \@ifpackageloaded{amsmath}{-}{-}
25113 \def\@eqnnum{\normalfont \normalcolor \if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}
25114 }
25115 \input{footnote-xetex-bidi.def}

```



```

25116 \if@twocolumn
25117 \let\autofootnoterule\relax
25118 \let\leftfootnoterule\relax
25119 \let\rightfootnoterule\relax
25120 \textwidthfootnoterule
25121 \fi
25122 \if@bidi@csundef{@idxitem}{}{%
25123 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi40\p@}%
25124 }
25125 \@ifpackageloaded{tocbasic}{\input{tocbasic-xetex-bidi.def}}{}
25126 \@ifclassloaded{article}{\@ifclassloaded{svmult}}{\input{article-xetex-bidi.def}}{}
25127 \@ifclassloaded{extarticle}{\input{extarticle-xetex-bidi.def}}{}
25128 \@ifclassloaded{artikel1}{\input{artikel1-xetex-bidi.def}}{}
25129 \@ifclassloaded{artikel2}{\input{artikel2-xetex-bidi.def}}{}
25130 \@ifclassloaded{artikel3}{\input{artikel3-xetex-bidi.def}}{}
25131 \@ifclassloaded{amsart}{\input{amsart-xetex-bidi.def}}{}
25132 \@ifclassloaded{beamer}{\input{beamer-xetex-bidi.def}}{}
25133 \@ifclassloaded{letter}{\input{letter-xetex-bidi.def}}{}
25134 \@ifclassloaded{extletter}{\input{extletter-xetex-bidi.def}}{}
25135 \@ifclassloaded{memoir}{\input{memoir-xetex-bidi.def}}{}
25136 \@ifclassloaded{refrep}{\input{refrep-xetex-bidi.def}}{}
25137 \@ifclassloaded{extreport}{\input{extreport-xetex-bidi.def}}{}
25138 \@ifclassloaded{report}{\@ifpackageloaded{flowfram}}{\input{report-xetex-bidi.def}}{}
25139 \@ifclassloaded{rapport1}{\input{rapport1-xetex-bidi.def}}{}
25140 \@ifclassloaded{rapport3}{\input{rapport3-xetex-bidi.def}}{}
25141 \@ifclassloaded{scrartcl}{\input{scrartcl-xetex-bidi.def}}{}
25142 \@ifclassloaded{scrbook}{\input{scrbook-xetex-bidi.def}}{}
25143 \@ifclassloaded{scrreprt}{\input{scrreprt-xetex-bidi.def}}{}
25144 \@ifclassloaded{amsbook}{\input{amsbook-xetex-bidi.def}}{}
25145 \@ifclassloaded{extbook}{\input{extbook-xetex-bidi.def}}{}
25146 \@ifclassloaded{boek}{\input{boek-xetex-bidi.def}}{}
25147 \@ifclassloaded{boek3}{\input{boek3-xetex-bidi.def}}{}
25148 \@ifclassloaded{book}{\@ifpackageloaded{flowfram}}{\input{book-xetex-bidi.def}}{}
25149 \@ifclassloaded{bookest}{\input{bookest-xetex-bidi.def}}{}
25150 \@ifclassloaded{combine}{\input{combine-xetex-bidi.def}}{}
25151 \@ifclassloaded{imsproc}{\input{imsproc-xetex-bidi.def}}{}
25152 \@ifpackageloaded{amsmath}{}{%
25153 \iftagsloaded{leqno}{\input{leqno-xetex-bidi.def}}{}
25154 \iftagsloaded{fleqn}{\input{fleqn-xetex-bidi.def}}{}
25155 }
25156 \@ifpackageloaded{mathtools}{%
25157 \RequirePackage{graphicx}%
25158 \input{mathtools-xetex-bidi.def}%
25159 }{}
25160 \@ifpackageloaded{crop}{\RequirePackage{graphicx}}{}
25161 \@ifpackageloaded{lscape}{\RequirePackage{graphicx}}{}
25162 \@ifpackageloaded{sidecap}{\RequirePackage{ragged2e}}{}
25163 \@ifpackageloaded{floatrow}{\RequirePackage{color}}{}
25164 \@ifpackageloaded{algorithm2e}{\input{algorithm2e-xetex-bidi.def}}{}
25165 \@ifpackagewith{algorithm2e}{algonl}{%
25166 \renewcommand{\theAlgoLine}{\expandafter\csname the\algocf@float\endcsname\@SepMark\arabic{A
25167 }}{}
25168 \@ifpackagewith{algorithm2e}{algotpart}{\renewcommand{\algocf@within}{part}}{}
25169 \@ifpackagewith{algorithm2e}{algochapter}{\renewcommand{\algocf@within}{chapter}}{}

```





```

25170 \@ifpackagewith{algorithm2e}{algorithsection}{\renewcommand{\algocf@within}{section}}{}
25171 \@ifpackageloaded{amsmath}{\input{amsmath-xetex-bidi.def}}{}
25172 \@ifpackageloaded{amstext}{\input{amstext-xetex-bidi.def}}{}
25173 \@ifpackageloaded{amsthm}{\input{amsthm-xetex-bidi.def}}{}
25174 \@ifpackageloaded{breqn}{\input{breqn-xetex-bidi.def}}{}
25175 \@ifpackageloaded{cals}{\input{cals-xetex-bidi.def}}{}
25176 \@ifpackageloaded{caption}{\input{caption-xetex-bidi.def}}{}
25177 \@ifpackageloaded{caption3}{\input{caption3-xetex-bidi.def}}{}
25178 \@ifpackageloaded{floatrow}{\input{floatrow-xetex-bidi.def}}{}
25179 \@ifpackageloaded{crop}{\@ifclassloaded{memoir}}{\input{crop-xetex-bidi.def}}{}
25180 \@ifpackageloaded{color}{\input{color-xetex-bidi.def}}{}
25181 \@ifpackageloaded{cutwin}{\input{cutwin-xetex-bidi.def}}{}
25182 \@ifpackageloaded{cuted}{\input{cuted-xetex-bidi.def}}{}
25183 \@ifpackageloaded{xcolor}{\input{xcolor-xetex-bidi.def}}{}
25184 \@ifpackageloaded{colortbl}{\input{colortbl-xetex-bidi.def}}{}
25185 \@ifpackageloaded{float}{\@ifpackageloaded{floatrow}}{\input{float-xetex-bidi.def}}{}
25186 \@ifpackageloaded{flowfram}{\input{flowfram-xetex-bidi.def}}{}
25187 \@ifpackageloaded{xltextra}{\input{xltextra-xetex-bidi.def}}{}
25188 \@ifpackageloaded{wrapfig}{\input{wrapfig-xetex-bidi.def}}{}
25189 \@ifpackageloaded{graphicx}{\input{graphicx-xetex-bidi.def}}{}
25190 \@ifpackageloaded{geometry}{\input{geometry-xetex-bidi.def}}{}
25191 \@ifpackageloaded{hvfloat}{\input{hvfloat-xetex-bidi.def}}{}
25192 \@ifpackageloaded{ntheorem}{\input{ntheorem-xetex-bidi.def}}{}
25193 \@ifpackageloaded{tabularx}{\input{tabularx-xetex-bidi.def}}{}
25194 \@ifpackageloaded{longtable}{\input{longtable-xetex-bidi.def}}{}
25195 \@ifpackageloaded{lscape}{\input{lscape-xetex-bidi.def}}{}
25196 \@ifpackageloaded{hyperref}{\input{hyperref-xetex-bidi.def}}{}
25197 \@ifpackageloaded{footnotebackref}{\input{footnotebackref-xetex-bidi.def}}{}
25198 \@ifpackageloaded{ntheorem-hyper}{\input{ntheorem-hyper-xetex-bidi.def}}{}
25199 \@ifpackageloaded{fancybox}{\input{fancybox-xetex-bidi.def}}{}
25200 \@ifpackageloaded{fancyhdr}{\input{fancyhdr-xetex-bidi.def}}{}
25201 \@ifpackageloaded{fix2col}{\input{fix2col-xetex-bidi.def}}{}
25202 \@ifpackageloaded{ftnright}{\input{ftnright-xetex-bidi.def}}{}
25203 \@ifpackageloaded{midfloat}{\input{midfloat-xetex-bidi.def}}{}
25204 \@ifpackageloaded{draftwatermark}{\input{draftwatermark-xetex-bidi.def}}{}
25205 \@ifpackageloaded{dblfnote}{\input{dblfnote-xetex-bidi.def}}{}
25206 \@ifpackageloaded{diagbox}{\input{diagbox-xetex-bidi.def}}{}
25207 \@ifpackageloaded{eso-pic}{\input{eso-pic-xetex-bidi.def}}{}
25208 \@ifpackageloaded{empheq}{\input{empheq-xetex-bidi.def}}{}
25209 \@ifpackageloaded{framed}{\input{framed-xetex-bidi.def}}{}
25210 \@ifpackageloaded{overpic}{\input{overpic-xetex-bidi.def}}{}
25211 \@ifpackageloaded{pdfbase}{\input{pdfbase-xetex-bidi.def}}{}
25212 \@ifpackageloaded{pdfscape}{\input{pdfscape-xetex-bidi.def}}{}
25213 \@ifpackageloaded{pdfpages}{\input{pdfpages-xetex-bidi.def}}{}
25214 \@ifpackageloaded{lettrine}{\input{lettrine-xetex-bidi.def}}{}
25215 \@ifpackageloaded{lineno}{\input{lineno-xetex-bidi.def}}{}
25216 \@ifpackageloaded{listings}{\input{listings-xetex-bidi.def}}{}
25217 \@ifpackageloaded{media9}{\RequirePackage{bidi-media9}}{}
25218 \@iftexfileloaded{pstricks}{\input{pstricks-xetex-bidi.def}}{}
25219 \@iftexfileloaded{pgfcorescopes.code}{\input{pgfcorescopes.code-xetex-bidi.def}}{}
25220 \@ifpackageloaded{titlesec}{\input{titlesec-xetex-bidi.def}}{}
25221 \@ifpackageloaded{titletoc}{\input{titletoc-xetex-bidi.def}}{}
25222 \@ifpackageloaded{array}{\input{array-xetex-bidi.def}}{}
25223 \@ifpackageloaded{sidecap}{\input{sidecap-xetex-bidi.def}}{}

```



```

25224 \@ifpackagewith{sidecap}{innercaption}{%
25225 \if@RTL \renewcommand*{\SC@FLOAT}[2]{%
25226 \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}
25227 \renewcommand*{\SC@justify@caption{%
25228 \isSC@ODD{\RaggedRight}{\RaggedLeft}}\else
25229 \renewcommand*{\SC@FLOAT}[2]{%
25230 \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}
25231 \renewcommand*{\SC@justify@caption{%
25232 \isSC@ODD{\RaggedLeft}{\RaggedRight}}\fi
25233 }{}
25234 \@ifpackagewith{sidecap}{rightcaption}{%
25235 \if@RTL \renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
25236 \def\SC@justify@caption{\RaggedLeft}\else%
25237 \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
25238 \def\SC@justify@caption{\RaggedRight}\fi%
25239 }{}
25240 \@ifpackagewith{sidecap}{leftcaption}{%
25241 \if@RTL \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
25242 \def\SC@justify@caption{\RaggedRight}\else%
25243 \renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
25244 \def\SC@justify@caption{\RaggedLeft}\fi%
25245 }{}
25246 \@ifpackageloaded{soul}{\input{soul-xetex-bidi.def}}{}
25247 \@ifpackageloaded{stabular}{\input{stabular-xetex-bidi.def}}{}
25248 \@ifpackageloaded{subfigure}{\input{subfigure-xetex-bidi.def}}{}
25249 \@ifpackageloaded{arydshln}{\input{arydshln-xetex-bidi.def}}{}
25250 \@ifpackageloaded{mdframed}{\input{mdframed-xetex-bidi.def}}{}
25251 \@ifpackageloaded{multicol}{\input{multicol-xetex-bidi.def}}{}
25252 \@ifpackageloaded{adjmulticol}{\input{adjmulticol-xetex-bidi.def}}{}
25253 \@ifpackageloaded{multienum}{\input{multienum-xetex-bidi.def}}{}
25254 \@ifpackageloaded{natbib}{\input{natbib-xetex-bidi.def}}{}
25255 \@ifpackageloaded{newfloat}{\input{newfloat-xetex-bidi.def}}{}
25256 \@ifpackageloaded{nicematrix}{\input{nicematrix-xetex-bidi.def}}{}
25257 \@ifpackageloaded{minitoc}{\input{minitoc-xetex-bidi.def}}{}
25258 \@ifpackageloaded{pgfsys}{\input{pgfsys.code-xetex-bidi.def}}{}
25259 \@ifpackageloaded{picinpar}{\input{picinpar-xetex-bidi.def}}{}
25260 \@ifpackageloaded{quotchap}{\input{quotchap-xetex-bidi.def}}{}
25261 \@ifpackageloaded{ragged2e}{\input{ragged2e-xetex-bidi.def}}{}
25262 \@ifpackageloaded{rotating}{\input{rotating-xetex-bidi.def}}{}
25263 \@ifpackageloaded{tbls}{\input{tbls-xetex-bidi.def}}{}
25264 \@ifpackageloaded{tabulary}{\input{tabulary-xetex-bidi.def}}{}
25265 \@ifpackageloaded{tcolorbox}{\input{tcolorbox-xetex-bidi.def}}{}
25266 \@ifpackageloaded{tocstyle}{\input{tocstyle-xetex-bidi.def}}{}
25267 \@ifpackageloaded{tocbibind}{\@ifclassloaded{memoir}{\input{tocbibind-xetex-bidi.def}}{}}
25268 \@ifpackageloaded{tocloft}{\@ifclassloaded{memoir}{\input{tocloft-xetex-bidi.def}}{}}
25269 \@ifdefinitionfileloaded{tc-xetex}{\input{tc-xetex-bidi.def}}{}
25270 \@ifpackageloaded{todonotes}{\input{todonotes-xetex-bidi.def}}{}
25271 \@ifpackageloaded{beamerbaseauxtemplates}{\input{beamerbaseauxtemplates-xetex-bidi.def}}{}
25272 \@ifpackageloaded{beamerbaseboxes}{\input{beamerbaseboxes-xetex-bidi.def}}{}
25273 \@ifpackageloaded{beamerbasecolor}{\input{beamerbasecolor-xetex-bidi.def}}{}
25274 \@ifpackageloaded{beamerbasecompatibility}{\input{beamerbasecompatibility-xetex-bidi.def}}{}
25275 \@ifpackageloaded{beamerbaseframecomponents}{\input{beamerbaseframecomponents-xetex-bidi.def}}{}
25276 \@ifpackageloaded{beamerbaseframesize}{\input{beamerbaseframesize-xetex-bidi.def}}{}
25277 \@ifpackageloaded{beamerbaselocalstructure}{\input{beamerbaselocalstructure-xetex-bidi.def}}{}

```



```

25278 \@ifpackageloaded{beamerbasemisc}{\input{beamerbasemisc-xetex-bidi.def}}{}
25279 \@ifpackageloaded{beamerbasenavigation}{\input{beamerbasenavigation-xetex-bidi.def}}{}
25280 \@ifpackageloaded{beamerbaseoverlay}{\input{beamerbaseoverlay-xetex-bidi.def}}{}
25281 \@ifpackageloaded{beamerinnerthemedefault}{\input{beamerinnerthemedefault-xetex-bidi.def}}{}
25282 \@ifpackageloaded{beamerinnerthemecircles}{\input{beamerinnerthemecircles-xetex-bidi.def}}{}
25283 \@ifpackageloaded{beamerinnerthemefocus}{\input{beamerinnerthemefocus-xetex-bidi.def}}{}
25284 \@ifpackageloaded{beamerinnerthemeinmargin}{\input{beamerinnerthemeinmargin-xetex-bidi.def}}{}
25285 \@ifpackageloaded{beamerinnerthememetropolis}{\input{beamerinnerthememetropolis-xetex-bidi.d
25286 \@ifpackageloaded{beamerinnerthemerectangles}{\input{beamerinnerthemerectangles-xetex-bidi.d
25287 \@ifpackageloaded{beamerinnerthemrounded}{\input{beamerinnerthemrounded-xetex-bidi.def}}{}
25288 \@ifpackageloaded{beamerouterthemedefault}{\input{beamerouterthemedefault-xetex-bidi.def}}{}
25289 \@ifpackageloaded{beamerouterthemefocus}{\input{beamerouterthemefocus-xetex-bidi.def}}{}
25290 \@ifpackageloaded{beamerouterthemeinfolines}{\input{beamerouterthemeinfolines-xetex-bidi.def
25291 \@ifpackageloaded{beamerouterthememetropolis}{\input{beamerouterthememetropolis-xetex-bidi.d
25292 \@ifpackageloaded{beamerouterthememiniframes}{\input{beamerouterthememiniframes-xetex-bidi.d
25293 \@ifpackageloaded{beamerouterthemesidebar}{\input{beamerouterthemesidebar-xetex-bidi.def}}{}
25294 \@ifpackageloaded{beamerouterthemesplit}{\input{beamerouterthemesplit-xetex-bidi.def}}{}
25295 \@ifpackageloaded{beamerouterthemeshadow}{\input{beamerouterthemeshadow-xetex-bidi.def}}{}
25296 \@ifpackageloaded{beamerouterthesmoothbars}{\input{beamerouterthesmoothbars-xetex-bidi.d
25297 \@ifpackageloaded{beamerouterthesmoothtree}{\input{beamerouterthesmoothtree-xetex-bidi.d
25298 \@ifpackageloaded{beamerouterthemetree}{\input{beamerouterthemetree-xetex-bidi.def}}{}
25299 \@ifpackageloaded{beamerthemeHannover}{\input{beamerthemeHannover-xetex-bidi.def}}{}
25300 \@ifpackageloaded{beamerthemeSingapore}{\input{beamerthemeSingapore-xetex-bidi.def}}{}

```

## 163 File xltextra-xetex-bidi.def

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25301 \ProvidesFile{xltextra-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for xltextra package f
25302 \let\@XeTeX\XeTeX
25303 \def\XeTeX{\@ensure@LTR{\@XeTeX}}
25304 \let\@XeLaTeX\XeLaTeX
25305 \def\XeLaTeX{\@ensure@LTR{\@XeLaTeX}}

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