



The bidi Package

Source documentation for [version 26.01.01](#)

*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/xepersian/bidi/issues>

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

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The *bidi* Package

Bidirectional typesetting with plain $\mathrm{T}_{\mathrm{E}}\mathrm{X}$ and $\mathrm{L}^{\mathrm{A}}\mathrm{T}_{\mathrm{E}}\mathrm{X}$ formats in Xe $\mathrm{T}_{\mathrm{E}}\mathrm{X}$ and Lua $\mathrm{T}_{\mathrm{E}}\mathrm{X}$ engines

Source documentation for [version 26.01.01](#)

Vafa Khalighi*

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*Thanks to the `bidi-tex` GitHub organization consisted of David Carlisle and other members of the $\mathrm{L}^{\mathrm{A}}\mathrm{T}_{\mathrm{E}}\mathrm{X}$ team for maintaining the package in the period 2018–2020.

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1 File amsart-xetex-bidi.def

```

1 \ProvidesFile{amsart-xetex-bidi.def}[2025/09/30 v1.2 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   \nointerlineskip
29   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
30   \kern11\p@\kern-\footnotesep}
31 \def\left@footnoterule{\kern-.4\p@
32   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
33
34
35 \long\def\@footnotetext#1{%
36   \insert\footins{%
37     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
38     \reset@font%
39     \bidi@footnotetext@font% \normalfont\footnotesize
40     \interlinepenalty\interfootnotelinepenalty
41     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
42     \floatingpenalty\@MM \hsize\columnwidth
43     \@parboxrestore \parindent\normalparindent \sloppy
44     \protected@edef\@currentlabel{%
45       \csname p@footnote\endcsname\@thefnmark}%
46     \@makefnmark%
47     \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
48
49 \long\def\@RTLfootnotetext#1{%
50   \insert\footins{%
51     \@RTLtrue%
52     \reset@font%

```



```

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

```



```

107 \footnotesize}
108 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
109 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
110 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
111 \def\maketitle{\par
112 \@topnum\z@ % this prevents figures from falling at the top of page 1
113 \@setcopyright
114 \thispagestyle{firstpage}% this sets first page specifications
115 \uppercasenonmath\shorttitle
116 \ifx\@empty\shortauthors \let\shortauthors\shorttitle
117 \else \andify\shortauthors
118 \fi
119 \@maketitle@hook
120 \begingroup
121 \@maketitle
122 \toks@{\xp{\shortauthors}\@temptokena\xp{\shorttitle}}%
123 \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
124 \edef\@tempa{%
125 \nx\markboth{\the\toks4
126 \nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
127 \@tempa
128 \endgroup
129 \c@footnote\z@
130 \clearatopmattertags
131 }

```

2 File adjmulticol-xetex-bidi.def

```

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

```




```

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

```

3 File algorithm2e-xetex-bidi.def

```

166 \ProvidesFile{algorithm2e-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for algorithm2e p
167 \expandafter\ifx\cscname algocf@within\endcsname\relax% if \algocf@within doesn't exist
168 \else%
169     else
170 \renewcommand\thealgocf{\cscname the\algocf@within\endcsname\@SepMark\@arabic\c@algocf}%
171 \fi
172 \ApplyPatchIfPackageLoadedF{color}{%
173     \bidi@patchcmd{\@algocf@start}{\bgroup}{%
174         \bgroup
175         \if@RTL
176             \beginR
177         \else
178             \beginL
179         \fi
180     }{}{}
181     \bidi@patchcmd{\@algocf@finish}{\egroup\end{lrbox}}{%
182         \if@RTL
183             \endR
184         \else
185             \endL
186         \fi
187     \egroup
188     \end{lrbox}}%
189 }{}{}
190 \bidi@patchcmd{\algocf@makecaption}{\hbox}{%
191     \if@RTL
192         \hboxR
193     \else
194         \hboxL
195     \fi
196 }{}{}
197
198 \@ifpackagewith{algorithm2e}{algonl}{%
199 \renewcommand{\theAlgoLine}{\expandafter\cscname the\algocf@float\endcsname\@SepMark\arabic{A
200 }}{}
201
202 \@ifpackagewith{algorithm2e}{algotpart}{\renewcommand{\algocf@within}{part}}{}
203
204 \@ifpackagewith{algorithm2e}{algotchapter}{\renewcommand{\algocf@within}{chapter}}{}
205
206 \@ifpackagewith{algorithm2e}{algotsection}{\renewcommand{\algocf@within}{section}}{}

```



4 File amsbook-xetex-bidi.def

```
207 \ProvidesFile{amsbook-xetex-bidi.def}[2025/09/30 v1.3 bidi adaptations for amsbook class for
208 \def\tocline#1#2#3#4#5#6#7{\relax
209 \ifnum #1>\c@tocdepth % then omit
210 \else
211 \par \addpenalty\@secpenalty\addvspace{#2}%
212 \begingroup \hyphenpenalty\@M
213 \@ifempty{#4}{%
214 \@tempdima\csname r@tocindent\number#1\endcsname\relax
215 }{%
216 \@tempdima#4\relax
217 }%
218 \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\leftskip\fi
219 \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
220 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
221 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
222 \nobreak
223 \endgroup
224 \fi}
225 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
226 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
227 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
228 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
229 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
230 \columnseprule\z@ \columnsep 35\p@
231 \@indextitlestyle
232 \thispagestyle{plain}%
233 \let\item\@idxitem
234 \parindent\z@ \parskip\z@\@plus.3\p@\relax
235 \if@RTL\raggedleft\else\raggedright\fi
236 \hyphenpenalty\@M
237 \footnotesize}
238 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
239 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
240 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
241 \def\right@footnoterule{%
242 \kern-.4\p@
243 \nointerlineskip
244 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
245 \kern11\p@\kern-\footnotesep}
246 \def\left@footnoterule{\kern-.4\p@
247 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
248
249 \long\def\@footnotetext#1{%
250 \insert\footins{%
251 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
252 \reset@font%
253 \bidi@footnotetext@font% \normalfont\footnotesize
254 \interlinepenalty\interfootnotelinepenalty
255 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
256 \floatingpenalty\@MM \hsize\columnwidth
257 \@parboxrestore \parindent\normalparindent \sloppy
258 \protected@edef\@currentlabel{%
```



```

259     \csname p@footnote\endcsname\@thefnmark}%
260     \@makefnhtext{%
261         \rule{z@footnotesep}{\ignorespaces#1\unskip\strut\par}}
262
263 \long\def\@RTLfootnotetext#1{%
264     \insert\footins{%
265         \@RTLtrue%
266         \reset@font%
267         \bidi@RTLfootnotetext@font% \normalfont\footnotesize
268         \interlinepenalty\interfootnotelinepenalty
269         \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
270         \floatingpenalty\@MM \hsize\columnwidth
271         \@parboxrestore \parindent\normalparindent \sloppy
272         \protected@edef\@currentlabel{%
273             \csname p@footnote\endcsname\@thefnmark}%
274         \@makefnhtext{%
275             \rule{z@footnotesep}{\ignorespaces#1\unskip\strut\par}}}
276
277
278 \long\def\@LTRfootnotetext#1{%
279     \insert\footins{%
280         \@RTLfalse%
281         \reset@font%
282         \bidi@LTRfootnotetext@font% \normalfont\footnotesize
283         \interlinepenalty\interfootnotelinepenalty
284         \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
285         \floatingpenalty\@MM \hsize\columnwidth
286         \@parboxrestore \parindent\normalparindent \sloppy
287         \protected@edef\@currentlabel{%
288             \csname p@footnote\endcsname\@thefnmark}%
289         \@makefnhtext{%
290             \rule{z@footnotesep}{\ignorespaces#1\unskip\strut\par}}}
291
292
293
294 \footdir@temp\footdir@ORG@bidi@amsbook@footnotetext\@footnotetext{\bidi@footdir@footnote}%
295 \footdir@temp\footdir@ORG@bidi@amsbook@RTLfootnotetext\@RTLfootnotetext{R}%
296 \footdir@temp\footdir@ORG@bidi@amsbook@LTRfootnotetext\@LTRfootnotetext{L}%
297
298 \renewenvironment{thebibliography}[1]{%
299     \@bibtitlestyle
300     \normalfont\bibliofont\labelsep .5em\relax
301     \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
302     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
303     \bidi@thebibliography@font@hook%
304     \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
305         \leftmargin\labelwidth \advance\leftmargin\labelsep
306         \usecounter{enumiv}}%
307     \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
308     \sfcode`\.=\@m
309 }{%
310     \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
311     \endlist
312 }

```



```

313 \def\makechapterhead#1{\global\topskip 7.5pc\relax
314 \begingroup
315 \fontsize{\@xivpt}{18}\bfseries\centering
316 \ifnum\c@secnumdepth>\m@ne
317 \leavevmode \hskip-\if@RTL\rightskip\else\leftskip\fi
318 \rlap{\vbox to\z@{\vss
319 \centerline{\normalsize\mdseries
320 \uppercase\@xp{\chaptername}\enspace\thechapter}
321 \vskip 3pc}}\hskip\if@RTL\rightskip\else\leftskip\fi\fi
322 #1\par \endgroup
323 \skip@34\p@ \advance\skip@-\normalbaselineskip
324 \vskip\skip@ }
325 \def\maketitle{\par
326 \@topnum\z@ % this prevents figures from falling at the top of page 1
327 \begingroup
328 \@maketitle
329 \endgroup
330 \c@footnote\z@
331 \def\do##1{\let##1\relax}%
332 \do\maketitle \do\@maketitle \do\title \do\@xtitle \do\@title
333 \do\author \do\@xauthor \do\address \do\@xaddress
334 \do\email \do\@xemail \do\curraddr \do\@xcurraddr
335 \do\dedicatory \do\@dedicatory \do\thanks \do\thankses
336 \do\keywords \do\@keywords \do\subjclass \do\@subjclass
337 }

```

5 File amsmath-xetex-bidi.def

```

338 \ProvidesFile{amsmath-xetex-bidi.def}[2020/05/16 v1.2 bidi adaptations for amsmath package f
339 \let\veqno=\eqno
340 \iftagsleft@ \let\veqno=\leqno \fi
341 \renewcommand{\numberwithin}[3][\arabic]{%
342 \ifundefined{c@#2}{\@nocounterr{#2}}{%
343 \ifundefined{c@#3}{\@nocnterr{#3}}{%
344 \addtoreset{#2}{#3}%
345 \exp\xdef\csname the#2\endcsname{%
346 \exp\@nx\csname the#3\endcsname \@nx\@SepMark\@nx#1{#2}}}%
347 }
348 \def\tagform@#1{\maketag@@@{\if@nonlatin\beginR\fi(\kern\z@\ignorespaces#1\unskip\@@italicco
349
350 \bidi@patchcmd\math@cr@@@align\place@tag{%
351 \place@tag
352 \else
353 \place@tag
354 }{}{}
355

```

6 File amstext-xetex-bidi.def

```

356 \ProvidesFile{amstext-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for amstext package f
357 \def\textdef@#1#2#3{\hbox{%
358 \everymath{#1}%
359 \let\fontsize#2\selectfont
360 \if@nonlatin\beginR\fi#3\if@nonlatin\endR\fi}}}

```



7 File amsthm-xetex-bidi.def

```
361 \ProvidesFile{amsthm-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for amsthm package for X
362 \def\@thmcountersep{\@SepMark}
```

8 File array-xetex-bidi.def

```
363 \ProvidesFile{array-xetex-bidi.def}[2025/12/06 v0.8 bidi adaptations for array package for X
364 \def\@testpach{\@chclass
365 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
366 \ifnum \@lastchclass=7 5 \else
367 \ifnum \@lastchclass=8 \tw@ \else
368 \ifnum \@lastchclass=9 \thr@@
369 \else \z@
370 \ifnum \@lastchclass = 10 \else
371 \edef\@nextchar{\expandafter\string\@nextchar}%
372 \@chnum
373 \if \@nextchar c\z@ \else
374 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
375 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
376 \z@ \@chclass
377 \if \@nextchar |\@ne \else
378 \if \@nextchar !6 \else
379 \if \@nextchar @7 \else
380 \if \@nextchar <8 \else
381 \if \@nextchar >9 \else
382 10
383 \@chnum
384 \if \@nextchar m\thr@@ \else
385 \if \@nextchar p4 \else
386 \if \@nextchar b5 \else
387 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi
388 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
389 \def\@tabular{%
390 \leavevmode
391 \UseTaggingSocket{tbl/hmode/begin}%
392 \hbox \bgroup\if@RTLtab\beginR \fi
393 \UseMathForPositioningText $%
394 \col@sep\tabcolsep
395 \let\d@llarbegin\beginR
396 \let\d@llarend\endR
397 \@kernel@tabular@init
398 \@tabarray}
399 \def\endtabular{\endarray\m@th $\if@RTLtab\endR\fi\egroup
400 \UseTaggingSocket{tbl/hmode/end}%
401 }
402 \expandafter\let\csname endtabular*\endcsname=\endtabular
403 \ExplSyntaxOn
404 \def\@array[#1]#2{
405 \@tempdima \ht \strutbox
406 \advance \@tempdima by\extrarowheight
407 \setbox \@arstrutbox \hbox{\vrule
408 \@height \arraystretch \@tempdima
409 \@depth \arraystretch \dp \strutbox
```



```

410         \@width \z@}%
411 \tbl_init_cell_data_for_table:
412 \begingroup
413 \@mkpream{#2}%
414 \tbl_count_table_cols:
415 \xdef\@preamble{
416     \noexpand \ar@ialign
417     \@halignto
418     \bgroup \@arstrut
419     \UseTaggingSocket{tbl/row/begin}
420     \tbl_init_cell_data_for_row:
421     \@preamble
422     \tabskip \z@ \cr}
423 \endgroup
424 \@arrayleft
425 \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi \fi
426 \bgroup
427 \let \@sharp ##\let \protect \relax
428 \lineskip \z@
429 \baselineskip \z@
430 \mathsurround \z@
431 \let\\\@arraycr \let\tabularnewline\\%
432 \def\par{\ifnum\currentgrouptype=6~ \else\@@par\fi}%
433 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
434 \UseTaggingSocket{tbl/init}
435 \@preamble
436 }
437 \let\@@array\@array
438 \def\endarray {
439     \tbl_crcr:n{endarray}
440     \tag_socket_use_expandable:n { math/luamml/array/save }
441     \egroup
442     \tag_socket_use:n { tbl/finalize }
443     \tbl_restore_outer_cell_data:
444     \if@RTLtab\egroup\endR\egroup\fi
445     \egroup
446     \tag_socket_use:n { math/luamml/array/finalize }
447     \@arrayright \gdef\@preamble{}%
448 }
449 \def\array{\col@sep\arraycolsep
450     \def\d@llarbegin{$\tag_socket_use:n { math/luamml/array/initcol }}
451     \def\d@llarend
452     {
453         \tag_socket_use:nn { math/luamml/save/nn }{{}}{mtd}}
454         $
455         \tag_socket_use:nn { math/luamml/array/finalizecol}{\the\@chnum}
456     }
457     \def\@halignto{}%
458     \@RTLtabfalse
459     \@tabarray}
460 \ExplSyntaxOff

```

9 File article-xetex-bidi.def



```

461 \ProvidesFile{article-xetex-bidi.def}[2025/09/30 v1.2 bidi adaptations for standard article
462 \IfClassLoadedT{svmult}{\endinput}
463 \if@titlepage
464   \renewcommand\maketitle{\begin{titlepage}%
465     \let\footnotesize\small
466     \let\right@footnoterule\relax
467     \let\left@footnoterule\relax
468     \let\textwidth@footnoterule\relax
469     \let \footnote \thanks
470     \let \LTRfootnote \LTRthanks
471     \let \RTLfootnote \RTLthanks
472     \null\vfil
473     \vskip 60\p@
474     \begin{center}%
475       {\LARGE \@title \par}%
476       \vskip 3em%
477       {\large
478         \lineskip .75em%
479         \begin{tabular}[t]{c}%
480           \@author
481           \end{tabular}\par}%
482       \vskip 1.5em%
483       {\large \@date \par}%           % Set date in \large size.
484     \end{center}\par
485     \@thanks
486     \vfil\null
487   \end{titlepage}%
488   \setcounter{footnote}{0}%
489   \global\let\thanks\relax
490   \global\let\LTRthanks\relax
491   \global\let\RTLthanks\relax
492   \global\let\maketitle\relax
493   \global\let\@thanks\@empty
494   \global\let\@author\@empty
495   \global\let\@date\@empty
496   \global\let\@title\@empty
497   \global\let\title\relax
498   \global\let\author\relax
499   \global\let\date\relax
500   \global\let\and\relax
501 }
502 \else
503 \renewcommand\maketitle{\par
504   \begingroup
505     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
506     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
507     \long\def\@makefntext##1{\parindent 1em\noindent
508       \hb@xt@1.8em{%
509         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
510     \if@twocolumn
511       \ifnum \col@number=\@ne
512         \maketitle
513       \else
514         \twocolumn[\maketitle]%

```



```

515     \fi
516   \else
517     \newpage
518     \global\let\topnum\z@    % Prevents figures from going at top of page.
519     \@maketitle
520   \fi
521   \thispagestyle{plain}\@thanks
522 \endgroup
523 \setcounter{footnote}{0}%
524 \global\let\thanks\relax
525 \global\let\LTRthanks\relax
526 \global\let\RTLthanks\relax
527 \global\let\maketitle\relax
528 \global\let\@maketitle\relax
529 \global\let\@thanks\@empty
530 \global\let\@author\@empty
531 \global\let\@date\@empty
532 \global\let\@title\@empty
533 \global\let\title\relax
534 \global\let\author\relax
535 \global\let\date\relax
536 \global\let\and\relax
537 }
538 \def\@maketitle{%
539   \newpage
540   \null
541   \vskip 2em%
542   \begin{center}%
543     \let \footnote \thanks
544     \let \LTRfootnote \LTRthanks
545     \let \RTLfootnote \RTLthanks
546     {\LARGE \@title \par}%
547     \vskip 1.5em%
548     {\large
549       \lineskip .5em%
550       \begin{tabular}[t]{c}%
551         \@author
552       \end{tabular}\par}%
553     \vskip 1em%
554     {\large \@date}%
555   \end{center}%
556   \par
557   \vskip 1.5em}
558 \fi
559 \renewcommand*\l@part[2]{%
560   \ifnum \c@tocdepth >-2\relax
561     \addpenalty\@secpenalty
562     \addvspace{2.25em \@plus\p@}%
563     \setlength\@tempdima{3em}%
564     \begin{group
565       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
566       \parfillskip -\@pnumwidth
567       {\leavevmode
568         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par

```




```

569     \nobreak
570     \if@compatibility
571         \global\@nobreaktrue
572         \everypar{\global\@nobreakfalse\everypar{}}%
573     \fi
574 \endgroup
575 \fi}
576 \renewcommand*\l@section[2]{%
577     \ifnum \c@tocdepth >\z@
578         \addpenalty\@secpenalty
579         \addvspace{1.0em \@plus\p@}%
580         \setlength\@tempdima{1.5em}%
581         \begingroup
582             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
583             \parfillskip -\@pnumwidth
584             \leavevmode \bfseries
585             \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
586             \hskip -\if@RTL\rightskip\else\leftskip\fi
587             #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
588         \endgroup
589     \fi}
590 \renewcommand\left@footnoterule{%
591     \kern-3\p@
592     \hrule\@width.4\columnwidth
593     \kern2.6\p@}
594 \renewcommand\right@footnoterule{%
595     \kern-3\p@
596     \nointerlineskip
597     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
598     \kern2.6\p@}
599 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
600 \renewcommand\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
601 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
602 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
603 \ApplyPatchIfPackageLoaded{nameref}{%
604     \bidi@patchcmd\NR@part\raggedright{%
605         \if@RTL\raggedleft\else\raggedright\fi
606     }{\bidi@warningnoline{Oops! patching `\'string\NR@part' failed}}}%
607     \bidi@patchcmd\NR@spart\raggedright{%
608         \if@RTL\raggedleft\else\raggedright\fi
609     }{\bidi@warningnoline{Oops! patching `\'string\NR@spart' failed}}}%
610 }{%
611     \bidi@patchcmd\@part\raggedright{%
612         \if@RTL\raggedleft\else\raggedright\fi
613     }{\bidi@warningnoline{Oops! patching `\'string\@part' failed}}}%
614     \bidi@patchcmd\@spart\raggedright{%
615         \if@RTL\raggedleft\else\raggedright\fi
616     }{\bidi@warningnoline{Oops! patching `\'string\@spart' failed}}}%
617 }
618 \renewenvironment{thebibliography}[1]
619     {\section*{\refname}%
620     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
621     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
622     \bidi@@thebibliography@font@hook%

```



```

623 \list{\@biblabel{\@arabic\c@enumiv}}%
624      {\settowidth\labelwidth{\@biblabel{#1}}%
625       \leftmargin\labelwidth
626       \advance\leftmargin\labelsep
627       \@openbib@code
628       \usecounter{enumiv}}%
629       \let\p@enumiv\@empty
630       \renewcommand\theenumiv{\@arabic\c@enumiv}}%
631 \sloppy
632 \clubpenalty4000
633 \@clubpenalty \clubpenalty
634 \widowpenalty4000%
635 \sfcode\.\@m}
636 {\def\@noitemerr
637  {\@latex@warning{Empty `thebibliography' environment}}}%
638 \endlist}
639 \renewenvironment{theindex}
640      {\if@twocolumn
641       \@restonecolfalse
642       \else
643       \@restonecoltrue
644       \fi
645       \columnseprule \z@
646       \columnsep 35\p@
647       \twocolumn[\section*{\indexname}]%
648       \@mkboth{\MakeUppercase\indexname}%
649               {\MakeUppercase\indexname}%
650       \thispagestyle{plain}\parindent\z@
651       \parskip\z@ \@plus .3\p@\relax
652       \let\item\@idxitem}
653      {\if@restonecol\onecolumn\else\clearpage\fi}

```

10 File artikel1-xetex-bidi.def

```

654 \ProvidesFile{artikel1-xetex-bidi.def}[2025/09/30 v0.5 bidi adaptations for artikel1 class f
655 \renewenvironment{theindex}{%
656 \if@twocolumn
657 \@restonecolfalse
658 \else
659 \@restonecoltrue
660 \fi
661 \columnseprule \z@
662 \columnsep 35\p@
663 \twocolumn[\section*{\indexname}]%
664 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}}%
665 \thispagestyle{plain}\parindent\z@
666 \parskip\z@ \@plus .3\p@\relax
667 \let\item\@idxitem
668 }{%
669 \if@restonecol\onecolumn\else\clearpage\fi}
670 \renewcommand*\head@style{%
671 \interlinepenalty \@M
672 \hyphenpenalty=\@M \exhyphenpenalty=\@M
673 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}

```



```

674 \if@titlepage
675   \renewenvironment{abstract}{%
676     \titlepage
677     \null\vfil
678     \section*{\SectFont\abstractname}
679     \noindent\ignorespaces}
680   {\par\vfil\null\endtitlepage}
681 \else
682   \renewenvironment{abstract}{%
683     \if@twocolumn
684       \section*{\abstractname}%
685     \else
686       \bgroup\ifRTL\leftskip\else\rightskip\fi=\unitindent
687       \section*{\small\SectFont\abstractname}%
688       \noindent\ignorespaces
689     \fi}
690   {\if@twocolumn\else\par\egroup\fi}
691 \fi
692 \renewcommand*\@regtocline[3]{%
693   \ifnum #1>\c@tocdepth
694   \else
695     \vskip\z@\@plus.2\p@
696     {\hangindent\z@ \afterindenttrue \interlinepenalty\@M
697     \ifRTL\rightskip\else\leftskip\fi\unitindent
698     \ifRTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
699     \parfillskip\z@
700     \@tempdima\unitindent
701     \parindent\z@
702     \leavevmode
703     \hbox{}\hskip -\ifRTL\rightskip\else\leftskip\fi\relax#2\nobreak
704     \hskip 1em \nobreak{\slshape #3}\par
705   }%
706 \fi}
707 \if@oldtoc
708 \renewcommand*\l@part[2]{%
709   \ifnum \c@tocdepth >-2\relax
710     \addpenalty\@secpenalty
711     \addvspace{2.25em \@plus\p@}%
712     \begingroup
713       \setlength\@tempdima{3em}%
714       \parindent \z@ \ifRTL\leftskip\else\rightskip\fi \@pnumwidth
715       \parfillskip -\@pnumwidth
716       {\leavevmode
717         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
718         \nobreak
719         \if@compatibility
720           \global\@nobreaktrue
721           \everypar{\global\@nobreakfalse\everypar{}}%
722         \fi
723       \endgroup
724   \fi}
725 \else
726 \renewcommand*\l@part{%
727   \ifnum \c@tocdepth >-2\relax

```



```

728 \addpenalty\@secpenalty
729 \addvspace{2.25em \@plus \p@}%
730 \@regtocline{0}%
731 \fi}
732 \fi
733 \if@oldtoc
734 \renewcommand*\l@section[2]{%
735 \addpenalty\@secpenalty
736 \addvspace{1.0em \@plus \p@}%
737 \setlength\@tempdima{1.5em}%
738 \begingroup
739 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
740 \parfillskip -\@pnumwidth
741 \leavevmode \bfseries
742 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
743 \hskip -\if@RTL\rightskip\else\leftskip\fi
744 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
745 \endgroup}
746 \else
747 \renewcommand*\l@section{\@regtocline{1}}
748 \fi
749 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@section}
750 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
751 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
752 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
753 \renewenvironment{thebibliography}[1]
754 {\section*\refname}%
755 \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
756 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
757 \bidi@thebibliography@font@hook%
758 \list{\@biblabel{\@arabic\c@enumiv}}%
759 {\settowidth\labelwidth{\@biblabel{#1}}%
760 \leftmargin\labelwidth
761 \advance\leftmargin\labelsep
762 \openbib@code
763 \usecounter{enumiv}%
764 \let\p@enumiv\@empty
765 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
766 \sloppy\clubpenalty4000\widowpenalty4000%
767 \sfcode\~.\@m}
768 {\def\@noitemerr
769 {\@latex@warning{Empty `thebibliography' environment}}}%
770 \endlist}
771 \renewcommand*\left@footnoterule{%
772 \kern-3\p@
773 \kern.5\baselineskip
774 \hrule\@width\unitindent
775 \kern.4\baselineskip
776 }
777 \renewcommand*\right@footnoterule{%
778 \kern-3\p@
779 \kern.5\baselineskip
780 \nointerlineskip
781 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }

```



```

782 \kern.4\baselineskip}
783 \if@titlepage
784 \renewcommand*\TitleFont{\rmfamily}
785 \renewcommand*\maketitle{%
786 \begin{titlepage}%
787 \let\footnotesize\small
788 \let\right@footnoterule\relax
789 \let\left@footnoterule\relax
790 \let\textwidth@footnoterule\relax
791 \let \footnote \thanks
792 \long\def\@makefnctext##1{\parindent\z@
793 \def\labelitemi{\textendash}\@revlabeltrue
794 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
795 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
796 \if@compatibility\setcounter{page}{0}\fi
797 \null\vfil
798 \vskip 60\p@
799 \begin{center}%
800 \TitleFont
801 {\LARGE \def\\{\penalty -\@M}
802 \if@allcaps
803 \expandafter\uc@nothanks\@title\thanks\relax
804 \else
805 \@title
806 \fi\par}%
807 \vskip 3em%
808 {\large
809 \lineskip .75em \parindent\z@
810 \begin{tabular}[t]{c}%
811 \if@allcaps
812 \expandafter\uc@authornothanks\@author\and\relax
813 \else
814 \@author
815 \fi
816 \end{tabular}\par}%
817 \vskip 1.5em%
818 {\large
819 \if@allcaps
820 \uppercase\expandafter{\@date}%
821 \else
822 \@date
823 \fi\par}%
824 \end{center}\par
825 \@thanks
826 \vfil\null
827 \end{titlepage}%
828 \setcounter{footnote}{0}%
829 \global\let\thanks\relax
830 \global\let\maketitle\relax
831 \global\let\@thanks\@empty
832 \global\let\@author\@empty
833 \global\let\@title\@empty
834 \global\let\@date\@empty
835 \global\let\title\relax

```



```

836 \global\let\author\relax
837 \global\let\date\relax
838 \global\let\and\relax
839 }
840 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
841 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
842 \futurelet\@tempa\uc@ax}
843 \def\uc@ax{%
844 \ifx\@tempa\relax
845 \else
846 \ \andname \ \expandafter\uc@authornothanks
847 \fi}
848 \def\uc@tx{\ifx\@tempa\relax
849 \else \expandafter\uc@ty \fi}
850 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
851 \else
852 \renewcommand*\maketitle{\par
853 \begin{group}
854 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
855 \def\@makefnmark{\rlap{%
856 \textsuperscript{\normalfont\@thefnmark}}}%
857 \long\def\@makefntext{\xmakefntext{%
858 \textsuperscript{\normalfont\@thefnmark}}}%
859 \if@twocolumn
860 \ifnum \col@number=\@one
861 \maketitle
862 \else
863 \twocolumn[\maketitle]%
864 \fi
865 \else
866 \newpage
867 \global\@topnum\z@
868 \maketitle
869 \fi
870 \thispagestyle{plain}\@thanks
871 \end{group}
872 \setcounter{footnote}{0}%
873 \global\let\thanks\relax
874 \global\let\maketitle\relax
875 \global\let\@maketitle\relax
876 \global\let\@thanks\@empty
877 \global\let\@author\@empty
878 \global\let\@title\@empty
879 \global\let\@date\@empty
880 \global\let\title\relax
881 \global\let\author\relax
882 \global\let\date\relax
883 \global\let\and\relax
884 }
885 \def\@maketitle{%
886 \newpage
887 \null
888 \vskip 2em%
889 \begin{center}%

```



```

890 \let \footnote \thanks
891 {\LARGE \TitleFont \@title \par}%
892 \vskip 1.5em%
893 {\large \TitleFont
894 \lineskip .5em%
895 \begin{tabular}[t]{c}%
896 \@author
897 \end{tabular}\par}%
898 \vskip 1em%
899 {\large \TitleFont \@date}%
900 \end{center}%
901 \par
902 \vskip 1.5em}
903 \fi

```

11 File artikel2-xetex-bidi.def

```

904 \ProvidesFile{artikel2-xetex-bidi.def}[2025/09/30 v0.5 bidi adaptations for artikel2 class f
905 \renewenvironment{theindex}{%
906 \if@twocolumn
907 \@restonecolfalse
908 \else
909 \@restonecoltrue
910 \fi
911 \columnseprule \z@
912 \columnsep 35\p@
913 \twocolumn[\section*{\indexname}]%
914 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
915 \thispagestyle{plain}\parindent\z@
916 \parskip\z@ \@plus .3\p@\relax
917 \let\item\@idxitem
918 }{%
919 \if@restonecol\onecolumn\else\clearpage\fi}
920 \renewcommand*\@regtocline[3]{%
921 \ifnum #1>\c@tocdepth
922 \else
923 \vskip\z@ \@plus.2\p@
924 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
925 \if@RTL\righskip\else\leftskip\fi\unitindent
926 \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
927 \parfillskip\z@
928 \@tempdima\unitindent
929 \advance\@tempdima by \othermargin
930 \parindent\z@
931 \leavevmode
932 \hbox{} \hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
933 \hskip 1em \nobreak{\slshape #3}\par
934 }%
935 \fi}
936 \if@oldtoc
937 \renewcommand*\l@section[2]{%
938 \addpenalty\@secpenalty
939 \addvspace{1.0em \@plus\p@}%
940 \setlength\@tempdima{1.5em}%

```



```

941 \begingroup
942 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
943 \parfillskip -\@pnumwidth
944 \leavevmode \bfseries
945 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
946 \hskip -\if@RTL\rightskip\else\leftskip\fi
947 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
948 \endgroup}
949 \else
950 \renewcommand*\l@section{\@regtocline{1}}
951 \fi
952 \if@oldtoc
953 \renewcommand*\l@part[2]{%
954 \ifnum \c@tocdepth >-2\relax
955 \addpenalty\@secpenalty
956 \addvspace{2.25em \@plus\p@}%
957 \begingroup
958 \setlength\@tempdima{3em}%
959 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
960 \parfillskip -\@pnumwidth
961 {\leavevmode
962 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
963 \nobreak
964 \if@compatibility
965 \global\@nobreaktrue
966 \everypar{\global\@nobreakfalse\everypar{}}%
967 \fi
968 \endgroup
969 \fi}
970 \else
971 \renewcommand*\l@part{%
972 \ifnum \c@tocdepth >-2\relax
973 \addpenalty\@secpenalty
974 \addvspace{2.25em \@plus \p@}%
975 \@regtocline{0}%
976 \fi}
977 \fi
978 \renewcommand*\head@style{%
979 \interlinepenalty \@M
980 \hyphenpenalty=\@M \exhyphenpenalty=\@M
981 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
982 \if@titlepage
983 \renewenvironment{abstract}{%
984 \titlepage
985 \null\vfil
986 \section*{\SectFont\abstractname}%
987 \noindent\ignorespaces}
988 {\par\vfil\null\endtitlepage}
989 \else
990 \renewenvironment{abstract}{%
991 \if@twocolumn
992 \section*{\abstractname}%
993 \else
994 \section*{\hskip\unitindent\small\SectFont\abstractname}%

```




```

995      \list{}\setlength\listparindent{\unitindent}%
996      \setlength\parindent    {\z@}%
997      \setlength\leftmargin    {\unitindent}%
998      \setlength\rightmargin   {\unitindent}%
999      \setlength\parsep        {\z@}}%
1000    \item[]%
1001  \fi}
1002  {\if@twocolumn\else\par\endlist\fi}
1003 \fi
1004 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
1005 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1006 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1007 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1008 \renewcommand*\left@footnoterule{%
1009   \kern-3\p@
1010   \hrule\@width 3\unitindent
1011   \kern 2.6\p@
1012 }
1013 \renewcommand*\right@footnoterule{%
1014   \kern-3\p@
1015   \nointerlineskip
1016   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-3\unitindent\relax \hrulefill }
1017   \kern 2.6\p@}
1018 \renewenvironment{thebibliography}[1]
1019   {\section*{\refname}%
1020    \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1021    \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
1022    \bidi@thebibliography@font@hook%
1023    \list{\@biblabel{\@arabic\c@enumiv}}%
1024      {\settowidth\labelwidth{\@biblabel{#1}}%
1025       \leftmargin\labelwidth
1026       \advance\leftmargin\labelsep
1027       \@openbib@code
1028       \usecounter{enumiv}%
1029       \let\p@enumiv\@empty
1030       \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1031    \sloppy\clubpenalty4000\widowpenalty4000%
1032    \sfcode`. \.\@m}
1033    {\def\@noitemerr
1034     {\@latex@warning{Empty `thebibliography' environment}}}%
1035    \endlist}
1036 \if@titlepage
1037 \renewcommand*\TitleFont{\rmfamily}
1038 \renewcommand*\maketitle{%
1039   \begin{titlepage}%
1040     \let\footnotesize\small
1041     \let\right@footnoterule\relax
1042     \let\left@footnoterule\relax
1043     \let\textwidth\footnoterule\relax
1044     \let \footnote \thanks
1045     \long\def\@makefntext##1{\parindent\z@
1046       \def\labelitemi{\textendash}\@revlabeltrue
1047       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1048     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%

```



```

1049 \ifcompatibility\setcounter{page}{0}\fi
1050 \null\vfil
1051 \vskip 60\p@
1052 \begin{center}%
1053 \TitleFont
1054 {\LARGE \def\{\{\penalty -\@M}
1055 \if@allcaps
1056 \expandafter\uc@nothanks\@title\thanks\relax
1057 \else
1058 \@title
1059 \fi\par}%
1060 \vskip 3em%
1061 {\large
1062 \lineskip .75em \parindent\z@
1063 \begin{tabular}[t]{c}%
1064 \if@allcaps
1065 \expandafter\uc@authornothanks\@author\and\relax
1066 \else
1067 \@author
1068 \fi
1069 \end{tabular}\par}%
1070 \vskip 1.5em%
1071 {\large
1072 \if@allcaps
1073 \uppercase\expandafter{\@date}%
1074 \else
1075 \@date
1076 \fi\par}%
1077 \end{center}\par
1078 \@thanks
1079 \vfil\null
1080 \end{titlepage}%
1081 \setcounter{footnote}{0}%
1082 \global\let\thanks\relax
1083 \global\let\maketitle\relax
1084 \global\let\@thanks\@empty
1085 \global\let\@author\@empty
1086 \global\let\@title\@empty
1087 \global\let\@date\@empty
1088 \global\let\title\relax
1089 \global\let\author\relax
1090 \global\let\date\relax
1091 \global\let\and\relax
1092 }
1093 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1094 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1095 \futurelet\@tempa\uc@ax}
1096 \def\uc@ax{%
1097 \ifx\@tempa\relax
1098 \else
1099 \\\andname \\\expandafter\uc@authornothanks
1100 \fi}
1101 \def\uc@tx{\ifx\@tempa\relax
1102 \else \expandafter\uc@ty \fi}

```



```

1103 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1104 \else
1105 \renewcommand*\maketitle{\par
1106   \begingroup
1107     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1108     \long\def\@makefntext##1{\parindent\z@
1109       \def\labelitemi{\textendash}%
1110       \leavevmode\hb@xt@.5\unitindent{%
1111         \@textsuperscript{\normalfont\@thefnmark}\hfil}##1}
1112     \if@twocolumn
1113       \ifnum \col@number=\@ne
1114         \@maketitle
1115       \else
1116         \twocolumn[\@maketitle]%
1117       \fi
1118     \else
1119       \newpage
1120       \global\@topnum\z@
1121       \@maketitle
1122     \fi
1123     \thispagestyle{plain}\@thanks
1124   \endgroup
1125   \setcounter{footnote}{0}%
1126   \global\let\thanks\relax
1127   \global\let\maketitle\relax
1128   \global\let\@maketitle\relax
1129   \global\let\@thanks\@empty
1130   \global\let\@author\@empty
1131   \global\let\@title\@empty
1132   \global\let\@date\@empty
1133   \global\let\title\relax
1134   \global\let\author\relax
1135   \global\let\date\relax
1136   \global\let\and\relax
1137 }
1138 \def\@maketitle{%
1139   \newpage
1140   \null
1141   \vskip 2em%
1142   \begin{center}%
1143     \let \footnote \thanks
1144     {\LARGE \TitleFont \@title \par}%
1145     \vskip 1.5em%
1146     {\large \TitleFont
1147       \lineskip .5em%
1148       \begin{tabular}[t]{c}%
1149         \@author
1150       \end{tabular}\par}%
1151     \vskip 1em%
1152     {\large \TitleFont \@date}%
1153   \end{center}%
1154   \par
1155   \vskip 1.5em}
1156 \fi

```



12 File artikel3-xetex-bidi.def

```

1157 \ProvidesFile{artikel3-xetex-bidi.def}[2025/09/30 v0.6 bidi adaptations for artikel3 class f
1158 \renewenvironment{theindex}{%
1159   \if@twocolumn
1160     \@restonecolfalse
1161   \else
1162     \@restonecoltrue
1163   \fi
1164   \columnseprule \z@
1165   \columnsep 35\p@
1166   \twocolumn[section*{\indexname}]{%
1167     \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}}%
1168   \thispagestyle{plain}\parindent\z@
1169   \parskip\z@ \@plus .3\p@\relax
1170   \let\item\@idxitem
1171   }{%
1172   \if@restonecol\onecolumn\else\clearpage\fi}
1173 \renewcommand*{\headstyle}{%
1174   \interlinepenalty \@M
1175   \hyphenpenalty=\@M \exhyphenpenalty=\@M
1176   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
1177 \renewcommand*{\@regtocline}[3]{%
1178   \ifnum #1>\c@tocdepth
1179   \else
1180     \vskip\z@\@plus.2\p@
1181     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
1182     \if@RTL\rightskip\else\leftskip\fi\unitindent
1183     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
1184     \parfillskip\z@
1185     \@tempdima\unitindent
1186     \parindent\z@
1187     \leavevmode
1188     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
1189     \hskip 1em \nobreak{\slshape #3}\par
1190     }%
1191   \fi}
1192 \if@oldtoc
1193 \renewcommand*\l@part[2]{%
1194   \ifnum \c@tocdepth >-2\relax
1195     \addpenalty\@secpenalty
1196     \addvspace{2.25em \@plus\p@}%
1197     \begingroup
1198       \setlength\@tempdima{3em}%
1199       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1200       \parfillskip -\@pnumwidth
1201       {\leavevmode
1202         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
1203         \nobreak
1204         \if@compatibility
1205           \global\@nobreaktrue
1206           \everypar{\global\@nobreakfalse\everypar{}}%
1207         \fi
1208       \endgroup

```



```

1209 \fi}
1210 \else
1211 \renewcommand*\l@part{%
1212 \ifnum \c@tocdepth >-2\relax
1213 \addpenalty\@secpenalty
1214 \addvspace{2.25em \@plus \p@}%
1215 \@regtocline{0}%
1216 \fi}
1217 \fi
1218
1219 \if@oldtoc
1220 \renewcommand*\l@section[2]{%
1221 \addpenalty\@secpenalty
1222 \addvspace{1.0em \@plus \p@}%
1223 \setlength\@tempdima{1.5em}%
1224 \begingroup
1225 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1226 \parfillskip -\@pnumwidth
1227 \leavevmode \bfseries
1228 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
1229 \hskip -\if@RTL\rightskip\else\leftskip\fi
1230 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
1231 \endgroup}
1232 \else
1233 \renewcommand*\l@section{\@regtocline{1}}
1234 \fi
1235 \if@titlepage
1236 \renewenvironment{abstract}{%
1237 \titlepage
1238 \null\vfil
1239 \section*{\SectFont\abstractname}%
1240 \noindent\ignorespaces}
1241 {\par\vfil\null\endtitlepage}
1242 \else
1243 \renewenvironment{abstract}{%
1244 \if@twocolumn
1245 \section*{\abstractname}%
1246 \else
1247 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
1248 \section*{\small\SectFont\abstractname}%
1249 \noindent\ignorespaces
1250 \fi}
1251 {\if@twocolumn\else\par\egroup\fi}
1252 \fi
1253 \renewcommand*\left@footnoterule{%
1254 \kern-3\p@
1255 \kern.5\baselineskip
1256 \hrule\@width\unitindent
1257 \kern.4\baselineskip
1258 }
1259 \renewcommand*\right@footnoterule{%
1260 \kern-3\p@
1261 \kern.5\baselineskip
1262 \nointerlineskip

```



```

1263 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
1264 \kern.4\baselineskip}
1265 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@section}
1266 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1267 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1268 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1269 \renewenvironment{thebibliography}[1]
1270     {\section*\refname}%
1271     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1272     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
1273     \bidi\@thebibliography@font@hook%
1274     \list{\@biblabel{\@arabic\c@enumiv}}%
1275         {\settowidth\labelwidth{\@biblabel{#1}}%
1276         \leftmargin\labelwidth
1277         \advance\leftmargin\labelsep
1278         \@openbib@code
1279         \usecounter{enumiv}%
1280         \let\p@enumiv\@empty
1281         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1282     \sloppy\clubpenalty4000\widowpenalty4000%
1283     \sfcode\.\@m}
1284 {\def\@noitemerr
1285     {\@latex@warning{Empty `thebibliography' environment}}}%
1286     \endlist}
1287 \if@titlepage
1288 \renewcommand*\TitleFont{\rmfamily}
1289 \renewcommand*\maketitle{%
1290 \begin{titlepage}%
1291 \let\footnotesize\small
1292 \let\right@footnoterule\relax
1293 \let\left@footnoterule\relax
1294 \let\textwidth\footnoterule\relax
1295 \let \footnote \thanks
1296 \long\def\@makefntext##1{\parindent\z@
1297     \def\labelitemi{\textendash}\@revlabeltrue
1298     \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1299 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1300 \if@compatibility\setcounter{page}{0}\fi
1301 \null\vfil
1302 \vskip 60\p@
1303 \begin{center}%
1304 \TitleFont
1305 {\LARGE \def\{\penalty -\@M}
1306 \if@allcaps
1307 \expandafter\uc@nothanks\@title\thanks\relax
1308 \else
1309 \@title
1310 \fi\par}%
1311 \vskip 3em%
1312 {\large
1313 \lineskip .75em \parindent\z@
1314 \begin{tabular}[t]{c}%
1315 \if@allcaps
1316 \expandafter\uc@authornothanks\author\and\relax

```



```

1317         \else
1318             \@author
1319         \fi
1320     \end{tabular}\par}%
1321     \vskip 1.5em%
1322     {\large
1323         \if@allcaps
1324             \uppercase\expandafter{\@date}%
1325         \else
1326             \@date
1327         \fi\par}%
1328     \end{center}\par
1329     \@thanks
1330     \vfil\null
1331 \end{titlepage}%
1332 \setcounter{footnote}{0}%
1333 \global\let\thanks\relax
1334 \global\let\maketitle\relax
1335 \global\let\@thanks\@empty
1336 \global\let\@author\@empty
1337 \global\let\@title\@empty
1338 \global\let\@date\@empty
1339 \global\let\title\relax
1340 \global\let\author\relax
1341 \global\let\date\relax
1342 \global\let\and\relax
1343 }
1344 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1345 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1346     \futurelet\@tempa\uc@ax}
1347 \def\uc@ax{%
1348     \ifx\@tempa\relax
1349     \else
1350         \\\andname \\\expandafter\uc@authornothanks
1351     \fi}
1352 \def\uc@tx{\ifx\@tempa\relax
1353     \else \expandafter\uc@ty \fi}
1354 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1355 \else
1356 \renewcommand*\maketitle{\par
1357     \begin{group}
1358         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1359         \def\@makefnmark{\rlap{%
1360             \@textsuperscript{\normalfont\@thefnmark}}}%
1361         \long\def\@makefntext{\@xmakefntext{%
1362             \@textsuperscript{\normalfont\@thefnmark}}}%
1363         \if@twocolumn
1364             \ifnum \col@number=\@one
1365                 \@maketitle
1366             \else
1367                 \twocolumn[\@maketitle]%
1368             \fi
1369         \else
1370             \newpage

```



```

1371     \global\@topnum\z@
1372     \@maketitle
1373     \fi
1374     \thispagestyle{plain}\@thanks
1375 \endgroup
1376 \setcounter{footnote}{0}%
1377 \global\let\thanks\relax
1378 \global\let\maketitle\relax
1379 \global\let\@maketitle\relax
1380 \global\let\@thanks\@empty
1381 \global\let\@author\@empty
1382 \global\let\@title\@empty
1383 \global\let\@date\@empty
1384 \global\let\title\relax
1385 \global\let\author\relax
1386 \global\let\date\relax
1387 \global\let\and\relax
1388 }
1389 \def\@maketitle{%
1390   \newpage
1391   \null
1392   \vskip 2em%
1393   \if@titlecentered
1394     \begin{center}%
1395       \let \footnote \thanks
1396       {\LARGE \TitleFont \@title \par}%
1397       \vskip 1.5em%
1398       {\large \TitleFont
1399         \lineskip .5em%
1400         \begin{tabular}[t]{c}%
1401           \@author
1402         \end{tabular}\par}%
1403       \vskip 1em%
1404       {\large \TitleFont \@date}%
1405     \end{center}%
1406   \else
1407     {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
1408     {\large \TitleFont \lineskip .5em \tabcolsep\z@
1409       \def\and{%% \begin{tabular} has already started
1410         \end{tabular}\hskip 1em plus .17fil
1411         \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabular}
1412         \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}\vskip 1em {\large \TitleFont \@date}
1413       }
1414   \fi
1415   \par
1416   \vskip 1.5em}
1417 \fi

```

13 File arydshln-xetex-bidi.def

```

1418 \ProvidesFile{arydshln-xetex-bidi.def}[2025/10/28 v0.4 bidi adaptations for arydshln package]
1419 \def\endarray{\adl@endarray \egroup \adl@arrayrestore \if@RTLtab\egroup\endR\egroup\fi\egroup}
1420 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
1421 \expandafter\let\csname endtabular*\endcsname\endtabular

```




```

1422 \let\adl@array\@array
1423 \def\@array{\adl@everyvbox\everyvbox
1424         \everyvbox{\adl@arrayinit \the\adl@everyvbox \everyvbox\adl@everyvbox}%
1425         \ifadl@inactive \adl@inactivate \else \adl@activate \fi
1426         \let\adl@noalign\noalign
1427         \adl@array}
1428 \ifx\@@array\adl@array \let\@@array\@array \fi
1429 \ifadl@usingarypkg
1430 \def\@testpach{\@chclass
1431 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
1432 \ifnum \@lastchclass=7 5 \else
1433 \ifnum \@lastchclass=8 \tw@ \else
1434 \ifnum \@lastchclass=9 \thr@@
1435 \else \z@
1436 \ifnum \@lastchclass = 10 \else
1437 \edef\@nextchar{\expandafter\string\@nextchar}%
1438 \@chnum
1439 \if \@nextchar c\z@ \else
1440 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
1441 \if \@nextchar \if@RTLtab l\else r\fi\@tw@ \else
1442 \z@ \@chclass
1443 \if \@nextchar |\@ne \let\@arrayrule\adl@arrayrule \else
1444 \if \@nextchar :\@ne \let\@arrayrule\adl@arraydashrule \else
1445 \if \@nextchar ;\@ne \let\@arrayrule\adl@argarraydashrule \else
1446 \if \@nextchar !6 \else
1447 \if \@nextchar @7 \else
1448 \if \@nextchar <8 \else
1449 \if \@nextchar >9 \else
1450 10
1451 \@chnum
1452 \if \@nextchar m\thr@@\else
1453 \if \@nextchar p4 \else
1454 \if \@nextchar b5 \else
1455 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi
1456 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1457
1458 \def\@classz{\@classx
1459         \@tempcnta \count@
1460         \prepnext@tok
1461         \@addtopreamble{\ifcase \@chnum
1462                 \hfil
1463                 \adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1464                 \hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1465                 \hfil\hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\or
1466                 \setbox\adl@box\hbox \adl@startmbox{\@nextchar}\insert@column
1467                 \adl@endmbox\or
1468                 \setbox\adl@box\vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
1469                 \setbox\adl@box\vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1470                 \fi}\prepnext@tok}
1471 \def\adl@class@start{4}
1472 \def\adl@class@iiiorvii{7}
1473
1474 \else
1475 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\@tw@ 4\relax \else

```



```

1476 \ifnum \@lastchclass=\thr@@ 5\relax \else
1477 \z@ \if #1c\@chnum \z@ \else
1478 \if \if@RTLtab#1r\else#1l\fi\@chnum \@one \else
1479 \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
1480 \@chclass
1481 \if #1|\@one \let\@arrayrule\adl@arrayrule \else
1482 \if #1:\@one \let\@arrayrule\adl@arraydashrule \else
1483 \if #1;\@one \let\@arrayrule\adl@argarraydashrule \else
1484 \if #1@ \tw@ \else
1485 \if #1p\thr@@ \else \z@ \@preamerr 0\fi
1486 \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1487
1488 \def\@arrayclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1489 \or \or \@addamp \or
1490 \@acolampacol \or \@firstampfalse \@acol \fi
1491 \edef\@preamble{\@preamble
1492 \ifcase \@chnum
1493 \hfil\adl@putlrc{$\relax\@sharp$}\hfil
1494 \or \adl@putlrc{$\relax\@sharp$}\hfil
1495 \or \hfil\adl@putlrc{$\relax\@sharp$}\fi}}
1496 \def\@tabclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1497 \or \or \@addamp \or
1498 \@acolampacol \or \@firstampfalse \@acol \fi
1499 \edef\@preamble{\@preamble
1500 \ifcase \@chnum
1501 \hfil\adl@putlrc{\@sharp\unskip}\hfil
1502 \or \adl@putlrc{\@sharp\unskip}\hfil
1503 \or \hfil\hskip\z@ \adl@putlrc{\@sharp\unskip}\fi}}
1504 \def\adl@class@start{6}
1505 \def\adl@class@iiiorvii{3}
1506 \fi
1507 \ApplyPatchCodeToFile{colortbl-xetex-bidi}{%
1508 \def\adl@inactivate{\adl@org@inactivate \let\CT@setup\adl@CT@setup}
1509 \def\adl@activate{\adl@org@activate \let\CT@setup\adl@act@CT@setup
1510 \let\@endpbox\adl@org@endpbox}
1511 \let\adl@CT@setup\CT@setup
1512 \def\CT@setup{\adl@CT@setup
1513 \@tempdima\ht\z@ \advance\@tempdima\minrowclearance
1514 \ifdim\adl@height<\@tempdima \global\adl@height\@tempdima \fi
1515 \ifdim\adl@depth<\dp\z@ \global\adl@depth\dp\z@\fi}
1516 \let\adl@act@CT@setup\CT@setup
1517 \def\@classz{\@classx
1518 \@tempcnta\count@ \prepnext@tok
1519 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
1520 \expandafter\adl@extract@arc\the\toks\@tempcnta\arrayrulecolor!\@nil
1521 \expandafter\adl@extract@drsc
1522 \the\toks\@tempcnta\doublerulesepcolor!\@nil
1523 \expandafter\adl@extract@dgc\the\toks\@tempcnta\dashgapcolor!\@nil
1524 \@addtopreamble{\if@RTL\beginL\fi%
1525 \setbox\z@\hbox\bgroup\bgroup\if@RTL\beginR\fi
1526 \ifcase \@chnum
1527 \hskip\stretch{.5}\kern\z@
1528 \dollarbegin
1529 \insert@column

```



```

1530             \d@llarend\hskip\stretch{.5}%
1531         \or \d@llarbegin \insert@column \d@llarend \hfill
1532         \or \hfill \kern\z@ \d@llarbegin \insert@column \d@llarend
1533         \or $\vcenter
1534             \@startpbox{\@nextchar}\insert@column \@endpbox $\%
1535         \or \vtop \@startpbox{\@nextchar}\insert@column \@endpbox
1536         \or \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1537         \fi
1538     \if@RTL\endR\fi\egroup\egroup
1539     \beginngroup
1540         \CT@setup
1541         \CT@column@color
1542         \CT@row@color
1543         \CT@cell@color
1544         \CT@do@color
1545     \endgroup
1546     \@tempdima\ht\z@
1547     \advance\@tempdima\minrowclearance
1548     \vrule\@height\@tempdima\@width\z@
1549     \unhbox\z@\if@RTL\endL\fi}%
1550     \prepnext@tok}
1551 \let\adl@act@classz\@classz
1552 \let\adl@org@classz\@classz
1553 }

```

14 File beamer-xetex-bidi.def

```

1554 \ProvidesFile{beamer-xetex-bidi.def}[2022/06/07 v0.3 bidi adaptations for beamer class for Xe
1555 \AtBeginDocument{%
1556     \if@RTLmain
1557         \raggedleft
1558     \else
1559         \raggedright
1560     \fi
1561 }
1562
1563 \renewcommand*{\bidi@beamer@ragged}{%
1564     \if@RTL
1565         \raggedleft
1566     \else
1567         \raggedright
1568     \fi
1569 }
1570
1571

```

15 File beamerbaseauxtemplates-xetex-bidi.def

```

1572 \ProvidesFile{beamerbaseauxtemplates-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for be
1573 \bidi@csundef{beamer@tmpop@subsection in toc@sections numbered}
1574
1575 \bidi@csundef{beamer@tmpop@subsubsection in toc@sections numbered}
1576
1577 \bidi@csundef{beamer@tmpop@section in toc@subsections numbered}

```



```

1578
1579 \bidi@csundef{beamer@@tmpop@subsection in toc@subsections numbered}
1580
1581 \bidi@csundef{beamer@@tmpop@subsubsection in toc@subsections numbered}
1582
1583 \defbeamertemplate{subsection in toc}{sections numbered}
1584 {\leavevmode\bidi@beamer@leftskip=2.5em\inserttocsubsection\par}
1585
1586 \defbeamertemplate{subsubsection in toc}{sections numbered}
1587 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3.5em\usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
1588
1589 \defbeamertemplate{section in toc}{subsections numbered}
1591 {\leavevmode\bidi@beamer@leftskip=2em\inserttocsection\par}
1592
1593 \defbeamertemplate{subsection in toc}{subsections numbered}
1594 {\leavevmode\bidi@beamer@leftskip=2em\rlap{\hskip-2em\inserttocsectionnumber.\inserttocsubsection in toc}\inserttocsubsection\par}
1595
1596 \defbeamertemplate{subsubsection in toc}{subsections numbered}
1597 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
1598
1599 \inserttocsubsubsection\par}
1600
1601 \bidi@csundef{beamer@@tmpop@section in toc@circle}
1602
1603 \bidi@csundef{beamer@@tmpop@subsection in toc@circle}
1604
1605 \bidi@csundef{beamer@@tmpop@subsubsection in toc@circle}
1606
1607 \defbeamertemplate{section in toc}{circle}
1608 {\leavevmode\bidi@beamer@leftskip=2ex%
1609 \llap{%
1610 \usebeamerfont*{section number projected}%
1611 \usebeamerfont*{section number projected}%
1612 \begin{pgfpicture}{-1ex}{0ex}{1ex}{2ex}
1613 \color{bg}
1614 \pgfpathcircle{\pgfpoint{0pt}{.75ex}}{1.2ex}
1615 \pgfusepath{fill}
1616 \pgftext[base]{\color{fg}\inserttocsectionnumber}
1617 \end{pgfpicture}\kern1.25ex%
1618 }%
1619 \inserttocsection\par}
1620
1621 \defbeamertemplate{subsection in toc}{circle}
1622 {\leavevmode\bidi@beamer@leftskip=2em\inserttocsubsection\par}
1623
1624 \defbeamertemplate{subsubsection in toc}{circle}
1625 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
1626
1627 \inserttocsubsubsection\par}
1628
1629 \bidi@csundef{beamer@@tmpop@section in toc@square}
1630
1631 \bidi@csundef{beamer@@tmpop@subsection in toc@square}

```



```

1632
1633 \bidi@csundef{beamer@@tmpop@subsubsection in toc@square}
1634
1635 \bidi@csundef{beamer@@tmpop@enumerate item@square}
1636
1637 \bidi@csundef{beamer@@tmpop@enumerate subitem@square}
1638
1639 \bidi@csundef{beamer@@tmpop@enumerate subsubitem@square}
1640
1641 \bidi@csundef{beamer@@tmpop@enumerate mini template@square}
1642
1643 \defbeamertemplate{section in toc}{square}
1644 {\leavevmode\bidi@beamer@leftskip=3ex%
1645   \llap{{%
1646     \usebeamerfont*{section number projected}%
1647     \usebeamercolor[bg]{section number projected}%
1648     \if@RTL
1649     \else
1650       \vrule width2.25ex height1.85ex depth.4ex%
1651       \hskip-2.25ex%
1652     \fi
1653     \hbox to2.25ex{{\hfil\color{fg}\inserttocsectionnumber\hfil}}}%
1654     \if@RTL
1655       \hskip-2.25ex%
1656       \vrule width2.25ex height1.85ex depth.4ex%
1657     \fi
1658   }}\kern1.25ex}%
1659 \inserttocsection\par}
1660
1661 \defbeamertemplate{subsection in toc}{square}
1662 {\leavevmode\bidi@beamer@leftskip=5ex\llap{{%
1663   \usebeamercolor[bg]{subsection number projected}%
1664   \vrule width1ex height1ex\kern1ex}}\inserttocsubsection\par}
1665
1666 \defbeamertemplate{subsubsection in toc}{square}
1667 {\leavevmode\normalsize\usebeamerfont{subsection in
1668   toc}\bidi@beamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1669   \llap{{%
1670     \usebeamercolor[bg]{subsubsection number projected}%
1671     \vrule width0.75ex height0.75ex\kern1ex}}\inserttocsubsubsection\par}
1672
1673 \defbeamertemplate{enumerate item}{square}
1674 {
1675   \hbox{{%
1676     \usebeamerfont*{item projected}%
1677     \usebeamercolor[bg]{item projected}%
1678     \if@RTL
1679     \else
1680       \vrule width2.25ex height1.85ex depth.4ex%
1681       \hskip-2.25ex%
1682     \fi
1683     \hbox to2.25ex{{%
1684       \hfil%
1685       \color{fg}\insertenumlabel%

```



```

1686     \hfil}}%
1687     \if@RTL
1688         \hskip-2.25ex%
1689         \vrule width2.25ex height1.85ex depth.4ex%
1690     \fi
1691 }}%
1692 }
1693 [action]
1694 {\setbeamerfont{item projected}{size=\scriptsize}}
1695
1696 \defbeamertemplate{enumerate subitem}{square}
1697 {
1698     \hbox{%
1699         \usebeamerfont*{subitem projected}%
1700         \usebeamercolor[bg]{subitem projected}%
1701         \if@RTL
1702         \else
1703             \vrule width2.25ex height1.85ex depth.4ex%
1704             \hskip-2.25ex%
1705         \fi
1706         \hbox to2.25ex{%
1707             \hfil%
1708             \color{fg}\insertsubenumlabel%
1709             \hfil}}%
1710         \if@RTL
1711             \hskip-2.25ex%
1712             \vrule width2.25ex height1.85ex depth.4ex%
1713         \fi
1714     }}%
1715 }
1716
1717 \defbeamertemplate{enumerate subsubitem}{square}
1718 {
1719     \hbox{%
1720         \usebeamerfont*{subitem projected}%
1721         \usebeamercolor[bg]{subsubitem projected}%
1722         \if@RTL
1723         \else
1724             \vrule width2.25ex height1.85ex depth.4ex%
1725             \hskip-2.25ex%
1726         \fi
1727         \hbox to2.25ex{%
1728             \hfil%
1729             \color{fg}\insertsubsubenumlabel%
1730             \hfil}}%
1731         \if@RTL
1732             \hskip-2.25ex%
1733             \vrule width2.25ex height1.85ex depth.4ex%
1734         \fi
1735     }}%
1736 }
1737
1738 \defbeamertemplate{enumerate mini template}{square}
1739 {

```



```

1740 \hbox{%
1741   \usebeamerfont*{\beameritemnestingprefix item projected}%
1742   \usebeamercolor[bg]{\beameritemnestingprefix item projected}%
1743   \if@RTL
1744   \else
1745     \vrule width2.25ex height1.85ex depth.4ex%
1746     \hskip-2.25ex%
1747   \fi
1748   \hbox to2.25ex{%
1749     \hfil%
1750     \color{fg}\insertenumlabel%
1751     \hfil}%
1752   \if@RTL
1753     \hskip-2.25ex%
1754     \vrule width2.25ex height1.85ex depth.4ex%
1755   \fi
1756 }}%
1757 }
1758
1759 \bidi@csundef{beamer@@tmpop@section in toc@ball unnumbered}
1760
1761 \bidi@csundef{beamer@@tmpop@subsection in toc@ball unnumbered}
1762
1763 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball unnumbered}
1764
1765 \defbeamertemplate{section in toc}{ball unnumbered}
1766 {\leavevmode\bidi@beamer@leftskip=2.25ex%
1767   \llap{%
1768     \raise0.1ex\beamer@usesphere{section number projected}{bigsphere}\kern1.25ex}%
1769   \inserttocsection\par}
1770
1771 \defbeamertemplate{subsection in toc}{ball unnumbered}
1772 {\leavevmode\bidi@beamer@leftskip=5.1ex\llap{%
1773   \raise0.2ex\beamer@usesphere{subsection number projected}{smallsphere}\kern1ex}\inserttocsection\par}
1774
1775 \defbeamertemplate{subsubsection in toc}{ball unnumbered}
1776 {\leavevmode\normalsize\usebeamerfont{subsection in
1777   toc}\bidi@beamer@leftskip=8.2ex\usebeamerfont{subsubsection in toc}%
1778   \llap{%
1779     \beamer@usesphere{subsubsection number projected}{smallsphere}\kern0.75ex}\inserttocsubsubsection\par}
1780
1781 \bidi@csundef{beamer@@tmpop@section in toc@ball}
1782
1783 \bidi@csundef{beamer@@tmpop@subsection in toc@ball}
1784
1785 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball}
1786
1787 \defbeamertemplate{section in toc}{ball}
1788 {\leavevmode\bidi@beamer@leftskip=2.75ex%
1789   \llap{%
1790     \normalsize%
1791     \begin{pgfpicture}{-1ex}{-0.7ex}{1ex}{1ex}
1792       \pgftext{\beamer@usesphere{section number projected}{tocsphere}}
1793       \pgftext{%

```



```

1794         \usebeamerfont*{section number projected}%
1795         \usebeamerfont*{section number projected}%
1796         \color{fg!90!bg}%
1797         \inserttocsectionnumber}
1798     \end{pgfpicture}%
1799     \kern1.25ex}%
1800 \inserttocsection\par
1801 }
1802 [action]
1803 {\setbeamerfont{section number projected}{size=\scriptsize}}
1804
1805 \defbeamertemplate{subsection in toc}{ball}
1806 {\leavevmode\bidibeamer@leftskip=5ex%
1807   \llap{\raise0.1ex\beamer@usesphere{subsection number projected}{bigsphere}\kern1ex}%
1808   \inserttocsubsection\par%
1809 }
1810
1811 \defbeamertemplate{subsubsection in toc}{ball}
1812 {\leavevmode\normalsize\usebeamerfont{subsection in
1813   toc}\bidibeamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1814   \llap{\beamer@usesphere{subsubsection number projected}{bigsphere}\kern0.75ex}%
1815   \inserttocsubsubsection\par%
1816 }
1817
1818 \bidi@csundef{beamer@@tmpop@block begin@rounded}
1819
1820 \bidi@csundef{beamer@@tmpop@block alerted begin@rounded}
1821
1822 \bidi@csundef{beamer@@tmpop@block example begin@rounded}
1823
1824 \defbeamertemplate{block begin}{rounded}[1][shadow=false]
1825 {%
1826   \par\vskip\medskipamount%
1827   \begin{beamerboxesrounded}[upper=block title,lower=block body,#1]%
1828     {\raggedright\usebeamerfont*{block title}\insertblocktitle}%
1829     \bidi@beamer@ragged%
1830     \usebeamerfont{block body}%
1831   }
1832
1833 \defbeamertemplate{block alerted begin}{rounded}[1][shadow=false]
1834 {%
1835   \par\vskip\medskipamount%
1836   \begin{beamerboxesrounded}[upper=block title alerted,lower=block body alerted,#1]%
1837     {\raggedright\usebeamerfont*{block title alerted}\insertblocktitle}%
1838     \bidi@beamer@ragged%
1839     \usebeamerfont{block body alerted}%
1840   }%
1841
1842 \defbeamertemplate{block example begin}{rounded}[1][shadow=false]
1843 {%
1844   \par\vskip\medskipamount%
1845   \begin{beamerboxesrounded}[upper=block title example,lower=block body example,#1]
1846     {\raggedright\usebeamerfont*{block title example}\insertblocktitle}%
1847     \bidi@beamer@ragged%

```




```

1848     \usebeamerfont{block body example}%
1849 }%
1850
1851 \bidi\csundef{beamer@@tmpop@caption@numbered}
1852
1853 \defbeamertemplate{caption}{numbered}
1854 {%
1855     \leavevmode
1856     \bidi@beamer@ragged
1857     {%
1858         \usebeamercolor[fg]{caption name}%
1859         \usebeamerfont*{caption name}%
1860         \insertcaptionname~\insertcaptionnumber
1861         \usebeamertemplate{caption label separator}%
1862     }%
1863     \insertcaption\par
1864 }
1865
1866 \bidi\csundef{beamer@@tmpop@caption@caption name own line}
1867
1868 \defbeamertemplate{caption}{caption name own line}
1869 {%
1870     \begin{minipage}{\textwidth}
1871         \leavevmode
1872         \bidi@beamer@ragged
1873         {%
1874             \usebeamercolor[fg]{caption name}%
1875             \usebeamerfont*{caption name}%
1876             \insertcaptionname%
1877         }\\
1878         \insertcaption
1879     \end{minipage}
1880 }
1881
1882 \ApplyPatchCodeToPackage{caption}{%
1883     \DeclareCaptionFont{beamer@font}{%
1884         \usebeamerfont*{caption}%
1885         \usebeamercolor[fg]{caption}%
1886     }
1887     \SetCaptionDefault{font}{beamer@font}
1888     \DeclareCaptionJustification{bidi@beamer@ragged}{\bidi@beamer@ragged}
1889     \SetCaptionDefault{justification}{bidi@beamer@ragged}
1890 }
1891

```

16 File beamerbaseboxes-xetex-bidi.def

```

1892 \ProvidesFile{beamerbaseboxes-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for beamerbas
1893 \renewcommand\beamerboxesrounded[2] []{%
1894     \global\let\beamer@firstlineitemizeunskip=\relax%
1895     \vbox\bgroup%
1896     \setkeys{beamerboxes}{upper=block title,lower=block body,width=\textwidth,shadow=false}%
1897     \setkeys{beamerboxes}{#1}%
1898     {%

```



```

1899 \usebeamercolor{\bmb@lower}%
1900 \globalcolorstrue%
1901 \colorlet{lower.bg}{bg}%
1902 }%
1903 {%
1904 \usebeamercolor{\bmb@upper}%
1905 \globalcolorstrue%
1906 \colorlet{upper.bg}{bg}%
1907 }%
1908 %
1909 % Typeset head
1910 %
1911 \vskip4bp
1912 \setbox\bmb@box=\hbox{%
1913 \begin{minipage}[b]{\bmb@width}%
1914 \usebeamercolor{fg}{\bmb@upper}%
1915 #2%
1916 \end{minipage}}%
1917 \ifdim\wd\bmb@box=0pt%
1918 \setbox\bmb@box=\hbox{}%
1919 \ht\bmb@box=1.5pt%
1920 \bmb@prevheight=-4.5pt%
1921 \else%
1922 \wd\bmb@box=\bmb@width%
1923 \bmb@temp=\dp\bmb@box%
1924 \ifdim\bmb@temp<1.5pt%
1925 \bmb@temp=1.5pt%
1926 \fi%
1927 \setbox\bmb@box=\hbox{\raise\bmb@temp\hbox{\box\bmb@box}}%
1928 \dp\bmb@box=0pt%
1929 \bmb@prevheight=\ht\bmb@box%
1930 \fi%
1931 \bmb@temp=\bmb@width%
1932 \bmb@dima=\bmb@temp\advance\bmb@dima by2.2bp%
1933 \bmb@dimb=\bmb@temp\advance\bmb@dimb by4bp%
1934 \hbox{%
1935 \begin{pgfpicture}{0bp}{+-\ht\bmb@box}{0bp}{+-\ht\bmb@box}
1936 \ifdim\wd\bmb@box=0pt%
1937 \color{lower.bg}%
1938 \else%
1939 \color{upper.bg}%
1940 \fi%
1941 \pgfpathmoveto{-4bp}{-1bp}
1942 \pgfpathqcurveto{-4bp}{1.2bp}{-2.2bp}{3bp}{0bp}{3bp}
1943 \pgfpathlineto{\pgfpoint{\bmb@temp}{3bp}}
1944 \pgfpathcurveto%
1945 {\pgfpoint{\bmb@dima}{3bp}}%
1946 {\pgfpoint{\bmb@dimb}{1.2bp}}%
1947 {\pgfpoint{\bmb@dimb}{-1bp}}%
1948 \bmb@dima=-\ht\bmb@box%
1949 \advance\bmb@dima by-2pt%
1950 \pgfpathlineto{\pgfpoint{\bmb@dimb}{\bmb@dima}}
1951 \pgfpathlineto{\pgfpoint{-4bp}{\bmb@dima}}
1952 \pgfusepath{fill}

```



```

1953 \end{pgfpicture}%
1954 \copy\bmb@box%
1955 }%
1956 \nointerlineskip%
1957 \vskip-1pt%
1958 \ifdim\wd\bmb@box=0pt%
1959 \else%
1960 \hbox{%
1961 \begin{pgfpicture}{Opt}{Opt}{\bmb@width}{6pt}
1962 \bmb@dima=\bmb@width%
1963 \advance\bmb@dima by8bp%
1964 \pgfpathrectangle{\pgfpoint{-4bp}{-1bp}}{\pgfpoint{\bmb@dima}{8bp}}
1965 \pgfusepath{clip}
1966 {\pgftransformshift{\pgfpoint{-4bp}{0bp}}\pgftext[left,base]{\pgfuses shading{\bmb@transi
1967 \end{pgfpicture}%
1968 }%
1969 \nointerlineskip%
1970 \vskip-0.5pt%
1971 \fi%
1972 \setbox\bmb@colorbox=\hbox{\pgfpicturetrue\pgfsetcolor{lower.bg}}}%
1973 \setbox\bmb@box=\hbox\bgroup\begin{minipage}[b]{\bmb@width}%
1974 \vskip2pt%
1975 \usebeamercolor{fg}{\bmb@lower}%
1976 \colorlet{beamerstructure}{upper.bg}%
1977 \colorlet{structure}{upper.bg}%
1978 %\color{.}%
1979 \@bidi@list@minipage@parboxfalse
1980 }
1981
1982 \bidi@patchcmd{\endbeamerboxesrounded}{\begingroup}{%
1983 \begingroup
1984 \@RTLfalse
1985 }{}{}
1986
1987

```

17 File beamerbasecolor-xetex-bidi.def

```

1988 \ProvidesFile{beamerbasecolor-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for beamerbas
1989 \renewenvironment{beamercolorbox}[2][{}]{%
1990 \def\beamer@vmode{\leavevmode}%
1991 \setkeys{beamercolbox}{wd=\textwidth,ht={},dp={},%
1992 leftskip=0pt,rightskip=0pt plus1fil,%
1993 sep=0pt,colsep=0pt,colsep*=0pt,%
1994 shadow=false,rounded=false,ignorebg=false}%
1995 \if@RTL
1996 \setkeys{beamercolbox}{rightskip=0pt,leftskip=0pt plus1fil}%
1997 \else
1998 \setkeys{beamercolbox}{leftskip=0pt,rightskip=0pt plus1fil}%
1999 \fi
2000 \setkeys{beamercolbox}{#1}%
2001 \ifbeamercoloreempty[bg]{#2}{\@tempwafalse}{\@tempwattrue}%
2002 \ifbeamer@colbox@ignorebg\@tempwafalse\fi%
2003 \def\beamer@colbox@color{#2}%

```



```

2004 \setbox\beamer@tempbox=\hbox\bgroup\color@begingroup
2005 \ifbeamer@colbox@ignorebg%
2006 \colorlet{beamer@temp@color}{bg}%
2007 \usebeamercolor[fg]{#2}%
2008 \colorlet{bg}{beamer@temp@color}%
2009 \else%
2010 \usebeamercolor[fg]{#2}%
2011 \fi%
2012 \beginL
2013 \vbox\bgroup%
2014 \hsize=\beamer@colbox@wd%
2015 \@arrayparboxrestore%
2016 \leftskip=\beamer@colbox@ls%
2017 \ifdim\beamer@colbox@sep>\z@\advance\leftskip\beamer@colbox@sep\fi%
2018 \rightskip=\beamer@colbox@rs%
2019 \ifdim\beamer@colbox@sep>\z@\advance\rightskip\beamer@colbox@sep\fi%
2020 \if@tempswa\ifdim\beamer@colbox@colsep>\z@%
2021 \advance\leftskip by\beamer@colbox@colsep%
2022 \advance\rightskip by\beamer@colbox@colsep%
2023 \vskip\beamer@colbox@colsep%
2024 \fi%
2025 \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
2026 \fi%
2027 \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
2028 \beamer@vmode\ignorespaces}{%
2029 \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
2030 \if@tempswa
2031 \ifdim\beamer@colbox@colsep>\z@\vskip\beamer@colbox@colsep\fi%
2032 \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
2033 \fi%
2034 \egroup\endL\color@endgroup\egroup%
2035 \wd\beamer@tempbox=\beamer@colbox@wd%
2036 \ifx\beamer@colbox@ht\@empty\else\ht\beamer@tempbox=\beamer@colbox@ht\fi%
2037 \ifx\beamer@colbox@dp\@empty\else\dp\beamer@tempbox=\beamer@colbox@dp\fi%
2038 \ifbeamer@colbox@rounded%
2039 \if@tempswa%
2040 \begin{beamerboxesrounded}{%
2041 shadow=\beamer@colbox@shadow,%
2042 lower=\beamer@colbox@color,%
2043 upper=normal text,%
2044 width=\beamer@colbox@wd}{}%
2045 \box\beamer@tempbox%
2046 \end{beamerboxesrounded}%
2047 \else%
2048 \ifdim\wd\beamer@tempbox>\textwidth%
2049 \setbox\beamer@tempbox=\hbox to\textwidth{\hss\box\beamer@tempbox\hss}%
2050 \fi%
2051 \box\beamer@tempbox%
2052 \fi%
2053 \else%
2054 \if@tempswa\setbox\beamer@tempbox=\hbox{%
2055 \usebeamercolor{\beamer@colbox@color}%
2056 \hskip-\beamer@colbox@colseps%
2057 \fboxsep=\z@\colorbox{bg}{%

```



```

2058      \hskip\beamer@colbox@colseps%
2059      \box\beamer@tempbox%
2060      \hskip\beamer@colbox@colseps%
2061    }%
2062    \hskip-\beamer@colbox@colseps%
2063    }\fi%
2064    \ifdim\wd\beamer@tempbox>\textwidth%
2065      \setbox\beamer@tempbox=\hbox to\textwidth{\hskip0pt minus\beamer@leftmargin\relax\box%
2066      \fi%
2067      \box\beamer@tempbox%
2068    \fi%
2069  }
2070
2071

```

18 File beamerbasecompatibility-xetex-bidi.def

```

2072 \ProvidesFile{beamerbasecompatibility-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for b
2073 \def\insertvrule#1#2{\hbox{{\color{#2}\hskip-\Gm@lmargin\vrule width \paperwidth height #1\h
2074
2075

```

19 File beamerbaseframecomponents-xetex-bidi.def

```

2076 \ProvidesFile{beamerbaseframecomponents-xetex-bidi.def}[2025/09/30 v0.8 bidi adaptations for
2077 \renewcommand{\setbeamersize}[1]{%
2078   \beamer@dogeometryfalse%
2079   \setkeys{beamer@margin}{#1}%
2080   \ifbeamer@dogeometry%
2081     % Reset left margin now
2082     \beamer@tempdim=\beamer@leftmargin%
2083     \advance\beamer@tempdim by\beamer@leftsidebar%
2084     \if@RTLmain
2085       \geometry{right=\the\beamer@tempdim}%
2086     \else
2087       \geometry{left=\the\beamer@tempdim}%
2088     \fi
2089     % Reset right margin now
2090     \beamer@tempdim=\beamer@rightmargin%
2091     \advance\beamer@tempdim by\beamer@rightsidebar%
2092     \if@RTLmain
2093       \geometry{left=\the\beamer@tempdim}%
2094     \else
2095       \geometry{right=\the\beamer@tempdim}%
2096     \fi
2097   \fi%
2098 }
2099
2100 \newcommand*{\bidi@beamer@Gm@lmargin}{%
2101   \if@RTLmain
2102     \Gm@rmargin
2103   \else
2104     \Gm@lmargin
2105   \fi

```



```

2106 }
2107
2108 \newcommand*{\bidi@beamer@Gm@rmargin}{%
2109   \if@RTLmain
2110     \Gm@lmargin
2111   \else
2112     \Gm@rmargin
2113   \fi
2114 }
2115
2116 \def\ps@navigation{
2117   \def\@oddhead{%
2118     \begingroup%
2119     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransiti
2120     \beamer@tempdim=\ht\beamer@tempbox%
2121     \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2122     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2123     \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}}%
2124     \beamer@tempdim=\ht\@tempboxa%
2125     \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}}%
2126     \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2127     \vbox{\hbox{\hskip-\bidi@beamer@Gm@lmargin\box\beamer@tempbox\box\@tempboxa}%
2128       \hbox{%
2129         {%
2130           \setbox\beamer@tempbox=\hbox{\hskip-\bidi@beamer@Gm@lmargin%
2131             \if@RTLmain
2132               {%
2133                 \vbox to \sidebarheight{%
2134                   \usebeamertemplate***{sidebar left}}%
2135                 \vfil%
2136               }}%
2137             \ApplyPatchIfPackageLoadedF{beamerinnerthemeinmargin}{%
2138               \hskip-\textwidth
2139             }%
2140             \fi
2141             {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2142               \usebeamercolor*{sidebar left}%
2143               \usebeamertemplate{sidebar canvas left}%
2144               \vss%
2145             }}%
2146             \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2147             \box\beamer@tempbox}%
2148             \if@RTLmain
2149             \else
2150             {%
2151               \vbox to \sidebarheight{%
2152                 \usebeamertemplate***{sidebar left}}%
2153               \vfil%
2154             }}\fi}%
2155           \beamer@tempdim=\ht\beamer@tempbox%
2156           \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2157           \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2158           \box\beamer@tempbox%
2159         }%

```



```

2160      {% print right sidebar first, since it should be overwritten by headline
2161      \setbox\beamer@tempbox=\hbox{\hskip\textwidth\hskip\beamer@rightmargin%
2162      \if@RTLmain
2163          {%
2164              \vbox to \sidebarheight{%
2165                  \usebeamertemplate***{sidebar right}%
2166                  \vfil%
2167              }}%
2168      \hskip-\textwidth
2169      \fi
2170      {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2171          \usebeamercolor*{sidebar right}%
2172          \usebeamertemplate{sidebar canvas right}%
2173          \vss%
2174          }}%
2175      \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2176      \box\beamer@tempbox}%
2177      \if@RTLmain
2178      \else
2179      {%
2180          \vbox to \sidebarheight{%
2181              \usebeamertemplate***{sidebar right}%
2182              \vfil%
2183          }}\fi}%
2184      \beamer@tempdim=\ht\beamer@tempbox%
2185      \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2186      \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2187      \box\beamer@tempbox%
2188      }%
2189      \beamer@typesetheadorfoot{headline}%
2190      }%
2191      \hfil}%
2192      \endgroup}
2193      \def\@oddfoot{%
2194          \vbox{\offinterlineskip\hbox{\beamer@typesetheadorfoot{footline}%
2195          \hfil}\hbox{}}\hfil
2196      }%
2197      \let\@evenhead\@oddhead
2198      \let\@evenfoot\@oddfoot}
2199
2200      \AtBeginDocument{%
2201          \pagestyle{navigation}%
2202      }
2203
2204      \def\beamer@typesetheadorfoot#1{% typeset the head or footline
2205      {\parskip0pt\offinterlineskip%
2206          \hbox{%
2207              \hskip-\bidi@beamer@Gm@lmargin%
2208              \hbox{%
2209                  \vbox{%
2210                      \@tempdima=\textwidth%
2211                      \textwidth=\paperwidth%
2212                      \hsize=\textwidth%
2213                      \def\{,\}%

```



```

2214         \usebeamertemplate***{#1}%
2215     }}%
2216     \hskip-\bidi@beamer@Gm@rmargin%
2217 }%\hfil%
2218 }
2219
2220 \def\ps@empty{%
2221     \let\@mkboth\@gobbletwo%
2222     \def\@oddhead{\begin{group}%
2223         \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransition%
2224         \beamer@tempdim=\ht\beamer@tempbox%
2225         \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2226         \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2227         \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}}%
2228         \beamer@tempdim=\ht\@tempboxa%
2229         \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}}%
2230         \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2231         \vbox{\hbox{\hskip-\Gm@lmargin\raise\headheight\box\beamer@tempbox\raise\headheight\box\@tempboxa}%
2232         \end{group}%
2233     }
2234     \def\@oddfoot{\normalcolor\hfil%
2235         \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{navigation symbols}\hskip-\bidi@beamer@Gm@rmargin%
2236         \ht\beamer@tempbox=0pt%
2237         \dp\beamer@tempbox=0pt%
2238         \box\beamer@tempbox}}%
2239     \let\@evenhead\@oddhead\let\@evenfoot\@oddfoot}
2240
2241 \renewenvironment<>{beamer@columnenv}[2][\beamer@colmode]{%
2242     \beamer@colclose\def\beamer@colclose{}%
2243     \begin{actionenv}#3%
2244         \setkeys{beamer@col}{#1}%
2245         \begin{minipage}[\beamer@colalign]{#2}%
2246             \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2247         {\end{minipage}\hfill\end{actionenv}}\@ignoretrue}
2248 \let\endcolumn\endbeamer@columnenv
2249
2250 \renewcommand<>\beamer@columncom[2][\beamer@colmode]{%
2251     \beamer@colclose%
2252     \def\beamer@colclose{\end{minipage}\hfill\end{actionenv}\ignorespaces}%
2253 \begin{actionenv}#3%
2254     \setkeys{beamer@col}{#1}%
2255     \begin{minipage}[\beamer@colalign]{#2}%
2256         \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2257
2258 \renewenvironment<>{columns}[1][\beamer@colmode]{%
2259     \begin{actionenv}#2%
2260     \ifbeamer@onlytextwidth
2261         \def\beamer@colentrycode{\hbox to\textwidth\bgroup\ignorespaces}%
2262         \def\beamer@colexitcode{\unskip\egroup}
2263     \else%
2264         \def\beamer@colentrycode{%
2265             \hbox to\textwidth\bgroup%
2266             \leavevmode%
2267             \hskip-\beamer@leftmargin%

```




```

2268 \nobreak%
2269 \beamer@tempdim=\textwidth%
2270 \advance\beamer@tempdim by\beamer@leftmargin%
2271 \advance\beamer@tempdim by\beamer@rightmargin%
2272 \hbox to\beamer@tempdim\bgroup%
2273 \hbox{}\hfill\ignorespaces}%
2274 \def\beamer@colexitcode{\egroup%
2275 \nobreak%
2276 \hskip-\beamer@rightmargin\egroup}%
2277 \fi%
2278 \ifbeamer@centered\setkeys{beamer@col}{c}\else\setkeys{beamer@col}{t}\fi%
2279 \setkeys{beamer@col}{#1}%
2280 \par%
2281 \leavevmode
2282 \beamer@colentrycode%
2283 \def\beamer@colclose{}\ignorespaces}%
2284 {\beamer@colclose\def\beamer@colclose{}\beamer@colexitcode\end{actionenv}}%
2285
2286
2287 \def\@makeRTLfntext#1{%
2288 \def\insertfootnotetext{#1}%
2289 \def\insertfootnotemark{\@makefnmark}%
2290 \usebeamertemplate***{RTLfootnote}}
2291
2292 \def\@makeLTRfntext#1{%
2293 \def\insertfootnotetext{#1}%
2294 \def\insertfootnotemark{\@makefnmark}%
2295 \usebeamertemplate***{LTRfootnote}}
2296
2297 \renewcommand<>\beamer@framefootnotetext[1]{%
2298 \global\setbox\beamer@footins\vbox{%
2299 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
2300 \hsize\framewidth
2301 \textwidth\hsize
2302 \columnwidth\hsize
2303 \unvbox\beamer@footins
2304 \reset@font
2305 \bidi@@footnotetext@font
2306 \@parboxrestore
2307 \protected@edef\@currentlabel
2308 {\csname p@footnote\endcsname\@thefnmark}%
2309 \color@begingroup
2310 \uncover#2{\@makefntext{%
2311 \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2312 \color@endgroup}}
2313
2314 \renewcommand<>\beamer@frameRTLfootnotetext[1]{%
2315 \global\setbox\beamer@footins\vbox{%
2316 \@RTLtrue
2317 \hsize\framewidth
2318 \textwidth\hsize
2319 \columnwidth\hsize
2320 \unvbox\beamer@footins
2321 \reset@font

```



```

2322 \bidi@RTLfootnotetext@font
2323 \@parboxrestore
2324 \protected@edef\@currentlabel
2325     {\csname p@footnote\endcsname\@thefnmark}%
2326 \color@begingroup
2327     \uncover#2{\@makeRTLfntext{%
2328         \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2329 \color@endgroup}}
2330
2331 \renewcommand<>\beamer@frameLTRfootnotetext[1]{%
2332 \global\setbox\beamer@footins\vbox{%
2333     \RTLfalse
2334     \hsize\framewidth
2335     \textwidth\hsize
2336     \columnwidth\hsize
2337     \unvbox\beamer@footins
2338     \reset@font
2339     \bidi@LTRfootnotetext@font
2340     \@parboxrestore
2341     \protected@edef\@currentlabel
2342         {\csname p@footnote\endcsname\@thefnmark}%
2343     \color@begingroup
2344         \uncover#2{\@makeLTRfntext{%
2345             \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2346     \color@endgroup}}
2347
2348 \renewcommand<>\@mpfootnotetext[1]{%
2349 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\ifRTL@footnote\global\let\bidi@mpfootnoterule
2350 \global\setbox\@mpfootins\vbox{%
2351     \unvbox\@mpfootins
2352     \ifRTL@footnote\RTLtrue\else\RTLfalse\fi
2353     \reset@font
2354     \bidi@footnotetext@font
2355     \hsize\columnwidth
2356     \@parboxrestore
2357     \protected@edef\@currentlabel
2358         {\csname p@mpfootnote\endcsname\@thefnmark}%
2359     \color@begingroup
2360         \uncover#2{\@makefntext{%
2361             \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2362     \color@endgroup}}
2363
2364 \renewcommand<>\@mpRTLfootnotetext[1]{%
2365 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@footnoterule
2366 \global\setbox\@mpfootins\vbox{%
2367     \unvbox\@mpfootins
2368     \RTLtrue
2369     \reset@font
2370     \bidi@RTLfootnotetext@font
2371     \hsize\columnwidth
2372     \@parboxrestore
2373     \protected@edef\@currentlabel
2374         {\csname p@mpfootnote\endcsname\@thefnmark}%
2375     \color@begingroup

```



```

2376      \uncover#2{\@makeRTLfntext{%
2377      \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2378      \color@endgroup}}
2379
2380 \renewcommand<>\@mpLTRfootnotetext[1]{%
2381 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footnot
2382 \global\setbox\@mpfootins\vbox{%
2383 \unvbox\@mpfootins
2384 \@RTLfalse
2385 \reset@font
2386 \bidi@@LTRfootnotetext@font
2387 \hsize\columnwidth
2388 \@parboxrestore
2389 \protected@edef\@currentlabel
2390 {\csname p@mpfootnote\endcsname\@thefnmark}%
2391 \color@begingroup
2392 \uncover#2{\@makeLTRfntext{%
2393 \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2394 \color@endgroup}}
2395
2396 \let\@footnotetext=\beamer@framefootnotetext
2397 \let\@RTLfootnotetext=\beamer@frameRTLfootnotetext
2398 \let\@LTRfootnotetext=\beamer@frameLTRfootnotetext
2399
2400 \footdir@temp\footdir@ORG@bidi@beamer@footnotetext\@footnotetext{\bidi@footdir@footnote}%
2401 \footdir@temp\footdir@ORG@bidi@beamer@RTLfootnotetext\@RTLfootnotetext{R}%
2402 \footdir@temp\footdir@ORG@bidi@beamer@LTRfootnotetext\@LTRfootnotetext{L}%
2403
2404 \renewcommand<>{\footnote}[1][ ]{%
2405 \let\beamer@footnotetext=\@footnotetext%
2406 \let\beamer@mpfn=\@mpfn%
2407 \let\beamer@thempfn=\thempfn%
2408 \let\beamer@kvorig=\KV@errx%
2409 \let\beamer@xkvorig=\XKV@err
2410 \def\beamer@footarg{}%
2411 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2412 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2413 \setkeys{beamerfootnote}{#1}%
2414 \let\KV@errx=\beamer@kvorig%
2415 \let\XKV@errx=\beamer@xkvorig
2416 \ifx\beamer@footarg\@empty%
2417 \def\beamer@next{\stepcounter\beamer@mpfn
2418 \protected@xdef\@thefnmark{\beamer@thempfn}%
2419 \@footnotemark\beamer@footnotetext#2}%
2420 \else%
2421 \def\beamer@next{%
2422 \begingroup
2423 \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2424 \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2425 \endgroup
2426 \@footnotemark\beamer@footnotetext#2}%
2427 \fi%
2428 \beamer@next}
2429

```



```

2430 \renewcommand<>{\RTLfootnote}[1] [] {%
2431   \let\beamer@RTLfootnotetext=\@RTLfootnotetext%
2432   \let\beamer@mpfn=\@mpfn%
2433   \let\beamer@thempfn=\thempfn%
2434   \let\beamer@kvorig=\KV@errx%
2435   \let\beamer@xkvorig=\XKV@err
2436   \def\beamer@footarg{%
2437     \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2438     \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2439     \setkeys{beamerfootnote}{#1}%
2440     \let\KV@errx=\beamer@kvorig%
2441     \let\XKV@errx=\beamer@xkvorig
2442     \ifx\beamer@footarg\@empty%
2443       \def\beamer@next{\stepcounter\beamer@mpfn
2444         \protected@xdef\@thefnmark{\beamer@thempfn}%
2445         \@footnotemark\beamer@RTLfootnotetext#2}%
2446     \else%
2447       \def\beamer@next{%
2448         \begingroup
2449           \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2450           \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2451         \endgroup
2452         \@footnotemark\beamer@RTLfootnotetext#2}%
2453     \fi%
2454   \beamer@next}
2455
2456 \renewcommand<>{\LTRfootnote}[1] [] {%
2457   \let\beamer@LTRfootnotetext=\@LTRfootnotetext%
2458   \let\beamer@mpfn=\@mpfn%
2459   \let\beamer@thempfn=\thempfn%
2460   \let\beamer@kvorig=\KV@errx%
2461   \let\beamer@xkvorig=\XKV@err
2462   \def\beamer@footarg{%
2463     \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2464     \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2465     \setkeys{beamerfootnote}{#1}%
2466     \let\KV@errx=\beamer@kvorig%
2467     \let\XKV@errx=\beamer@xkvorig
2468     \ifx\beamer@footarg\@empty%
2469       \def\beamer@next{\stepcounter\beamer@mpfn
2470         \protected@xdef\@thefnmark{\beamer@thempfn}%
2471         \@footnotemark\beamer@LTRfootnotetext#2}%
2472     \else%
2473       \def\beamer@next{%
2474         \begingroup
2475           \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2476           \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2477         \endgroup
2478         \@footnotemark\beamer@LTRfootnotetext#2}%
2479     \fi%
2480   \beamer@next}
2481
2482

```



20 File beamerbaseframesize-xetex-bidi.def

```

2483 \ProvidesFile{beamerbaseframesize-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamer]
2484 \def\beamer@framezoom<#1><#2>[#3](#4,#5)(#6,#7){%
2485   \par\nointerlineskip%
2486   \global\beamer@slidehaszoomtrue%
2487   \advance\beamer@zoomcount by1\relax%
2488   \def\beamer@zoomborderwidth{0}%
2489   \edef\beamer@labelzoomed{\beamer@labelzoomed@\the\beamer@zoomframecount @\the\beamer@zoomcount}%
2490   \setkeys{beamerzoom}{#3}%
2491   \only<#1>{%
2492     {\hypersetup{pdfhighlight={/P},pdfborder={0 0 \beamer@zoomborderwidth}}}%
2493     \global\setbox\@tempboxa=\vbox{\hyperlink{\beamer@labelzoomed}{%
2494       \expandafter\ifx\csname XeTeXrevision\endcsname\relax
2495         \vbox to #7{%
2496           \hbox to#6{\hfil}%
2497           \vfil%
2498         }%
2499       \else%
2500         \begingroup%
2501         \normalsize%
2502         \begin{pgfpicture}{0pt}{0pt}{#6}{#7}%
2503           \pgfsetfillopacity{0}
2504           \pgftext[x=0cm,y=3pt]{.}
2505           \pgftext[x=#6,y=\dimexpr#7-\baselineskip+3pt]{.}
2506         \end{pgfpicture}%
2507         \endgroup%
2508       \fi%
2509     }%
2510     \ht\@tempboxa=0pt%
2511     \wd\@tempboxa=0pt%
2512     \dp\@tempboxa=0pt%
2513     \setbox\@tempboxa=\vbox{\if@RTL\moveleft\else\moveright\fi#4\hbox{\lower#5\vbox{\box\@tempboxa}}}%
2514     \ht\@tempboxa=0pt%
2515     \wd\@tempboxa=0pt%
2516     \dp\@tempboxa=0pt%
2517     \global\setbox\beamer@zoombox=\vbox to0pt{\unvbox\beamer@zoombox\box\@tempboxa}%
2518   }%
2519   \only<#2>{%
2520     \ifundefined{\beamer@labelzoomed}%
2521     {%
2522       \hypertarget{\beamer@labelzoomed}{}%
2523       \expandafter\gdef\csname\beamer@labelzoomed\endcsname{}%
2524     }%
2525     \gdef\beamer@zoomer{%
2526       % compute zoom factor
2527       \@tempdima=\beamer@frametextheight%
2528       \@tempdimb=#7\relax%
2529       \@tempcnta=\@tempdimb%
2530       \divide\@tempcnta by4096\relax%
2531       \multiply\@tempdima by16\relax%
2532       \divide\@tempdima by\@tempcnta%
2533       \@tempdimb=\paperwidth%
2534       \ifbeamer@plainframe%

```



```

2535 \else%
2536 \advance\@tempdimb by-\beamer@leftsidebar%
2537 \advance\@tempdimb by-\beamer@rightsidebar\relax%
2538 \fi%
2539 \@tempdimc=#6\relax%
2540 \@tempcntb=\@tempdimc%
2541 \divide\@tempcntb by4096\relax%
2542 \multiply\@tempdimb by16\relax%
2543 \divide\@tempdimb by\@tempcntb%
2544 \ifdim\@tempdimb<\@tempdima%
2545 \@tempdima=\@tempdimb%
2546 \fi%
2547 \edef\beamer@temp{\strip@pt\@tempdima}%
2548 \@tempdimc=\beamer@frametextheight%
2549 \advance\@tempdimc by4pt%
2550 \@tempdimb=\paperwidth%
2551 \ifbeamer@plainframe%
2552 \else%
2553 \advance\@tempdimb by-\beamer@leftsidebar%
2554 \advance\@tempdimb by-\beamer@rightsidebar\relax%
2555 \fi%
2556 \setbox\@tempboxa=\vbox{\hsize=\@tempdimb\Acrobatmenu{GoBack}{\vbox to
2557 \beamer@frametextheight{\hbox to\@tempdimb{\hfil}\vfil}}}%
2558 \ht\@tempboxa=0pt%
2559 \wd\@tempboxa=0pt%
2560 \dp\@tempboxa=0pt%
2561 \setbox\beamer@framebox=\vbox to\beamer@frametextheight{%
2562 \ifbeamer@plainframe\beamer@leftmargin=\Gm@lmargin\fi%
2563 \if@RTL
2564 \begin{pgfpicture}{\paperwidth-\beamer@leftmargin}{-\beamer@frametextheight}{\pape
2565 \pgftext[right,top]{\box\@tempboxa}
2566 \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2567 \pgfusepath{clip}
2568 \begingroup
2569 \pgftransformscale{\beamer@temp}
2570 \@tempdima=#4\relax%
2571 \@tempdimb=#5\relax%
2572 {\pgftransformshift{\pgfpoint{\@tempdima+#6}{\@tempdimb}}}%
2573 \pgftext[right,top]{\vbox{\vbox{}\nointerlineskip\unvbox\beamer@framebox}}
2574 \endgroup
2575 \end{pgfpicture}}%
2576 \else
2577 \begin{pgfpicture}{\beamer@leftmargin}{-\beamer@frametextheight}{\beamer@leftmargi
2578 \pgftext[left,top]{\box\@tempboxa}
2579 \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2580 \pgfusepath{clip}
2581 \begingroup
2582 \pgftransformscale{\beamer@temp}
2583 \@tempdima=#4\relax%
2584 \@tempdimb=#5\relax%
2585 {\pgftransformshift{\pgfpoint{-\@tempdima}{\@tempdimb}}}%
2586 \pgftext[left,top]{\vbox{\vbox{}\nointerlineskip\unvbox\beamer@framebox}}
2587 \endgroup
2588 \end{pgfpicture}}%

```



```

2589         \fi
2590     } }%
2591     \setbox\beamer@framebox=\vbox{%
2592         \nobreak\vbox{}\nobreak\par\nobreak\beamer@entrycode\nobreak%
2593         \nointerlineskip\unvbox\beamer@frametitlebox%
2594         \nobreak%
2595         \box\beamer@framebox%
2596         \nobreak%
2597         \vss%
2598         \beamer@exitcode%
2599     }%
2600     \global\setbox\beamer@footins=\box\voidb@x% no footnotes in zoomed slides
2601 }%
2602 }%
2603 }
2604
2605

```

21 File beamerbaselocalstructure-xetex-bidi.def

```

2606 \ProvidesFile{beamerbaselocalstructure-xetex-bidi.def}[2022/05/24 v0.1 bidi adaptations for
2607 \def\beamer@enum@{%
2608     \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2609     \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2610     \bgroup
2611     \usebeamerfont{fg}{itemize/enumerate \beameritemnestingprefix body}%
2612     \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2613     \egroup
2614     \expandafter
2615     \list
2616         {\usebeamertemplate{\beamer@enumtempl}}
2617         {\usecounter\@enumctr%
2618         \def\makelabel##1{\hss\llap{%
2619             \usebeamerfont*{enumerate \beameritemnestingprefix item}%
2620             \usebeamerfont{fg}{enumerate \beameritemnestingprefix item}##1}}}%
2621     \beamer@cramped%
2622     \bidi@beamer@ragged%
2623     \beamer@firstlineitemizeunskip%
2624 }
2625
2626 \renewcommand{\itemize}[1][ ]{%
2627     \ifblank{#1}{\def\beamer@defaulttospec{#1}}%
2628     \ifnum \@itemdepth >2\relax\@toodeep\else
2629         \advance\@itemdepth\@ne
2630         \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2631         \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2632         \bgroup
2633         \usebeamerfont{fg}{itemize/enumerate \beameritemnestingprefix body}%
2634         \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2635         \egroup
2636         \list
2637             {\usebeamertemplate{itemize \beameritemnestingprefix item}}
2638             {\def\makelabel##1{%
2639                 {%

```



```

2640         \hss\llap{%
2641             \usebeamerfont*{itemize \beameritemnestingprefix item}%
2642             \usebeamerfont{description body}%
2643         }%
2644     }%
2645 }
2646 \fi%
2647 \beamer@cramped%
2648 \bidi@beamer@ragged%
2649 \beamer@firstlineitemizeunskip%
2650 }
2651
2652 \def\@@description{%
2653     \advance\beamer@descdefault by \labelsep%
2654     \usebeamerfont{description body}%
2655     \bgroup
2656     \usebeamerfont{description body}%
2657     \usebeamertemplate{description body begin}%
2658     \egroup
2659     \list
2660     {}
2661     {\labelwidth\beamer@descdefault\leftmargin\beamer@descdefault\let\makelabel\beamer@descrip
2662     \beamer@cramped%
2663     \bidi@beamer@ragged
2664     \beamer@firstlineitemizeunskip%
2665 }
2666
2667 \renewenvironment{thebibliography}[1]
2668 {%\leavevmode\unskip%
2669 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
2670 \bidi@thebibliography@font@hook%
2671 \list{\@biblabel{\@arabic\c@enumiv}}%
2672     {\settowidth\labelwidth{\beamer@biblabeltemplate{\@biblabel{#1}}}%
2673     \leftmargin\labelwidth
2674     \advance\leftmargin\labelsep
2675     \itemsep=0pt%
2676     \partopsep=0pt%
2677     \topsep=0pt%
2678     \usecounter{enumiv}%
2679     \let\p@enumiv\@empty
2680     \renewcommand\theenumiv{\@arabic\c@enumiv}
2681     \let\makelabel\beamer@biblabeltemplate}%
2682     \sloppy\bidi@beamer@ragged
2683     \clubpenalty10000
2684     \@clubpenalty \clubpenalty
2685     \widowpenalty10000%
2686     \sfcode`\.\@m}
2687 {\def\@noitemerr
2688     {\@latex@warning{Empty `thebibliography' environment}}%
2689     \ifhmode\unskip\fi\endlist}
2690
2691

```



22 File beamerbasemisc-xetex-bidi.def

```
2692 \ProvidesFile{beamerbasemisc-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamerbase
2693 \define@key{beamerst}{width}{%
2694   \def\beamer@ststart{%
2695     \begin{minipage}[t]{#1}%
2696       \bidi@beamer@ragged
2697       \beamer@stalign
2698       \beamer@stlinebreakrule
2699     }%
2700   \def\beamer@stend{\end{minipage}}%
2701
2702
```

23 File beamerbasenavigation-xetex-bidi.def

```
2703 \ProvidesFile{beamerbasenavigation-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for beam
2704 \def\slideentry#1#2#3#4#5#6{%
2705   %section number, subsection number, slide number, first/last frame, page number, part numb
2706   \ifnum#6=\c@part\ifnum#1>0\ifnum#3>0%
2707     \ifbeamer@compress%
2708       \advance\beamer@xpos by1\relax%
2709     \else%
2710       \ifnum#2=0%
2711         \beamer@ypos@offset=1\relax%
2712       \fi
2713       \beamer@xpos=#3\relax%
2714       \beamer@ypos=#2\relax%
2715       \advance\beamer@ypos by \beamer@ypos@offset\relax
2716     \fi%
2717   \hbox to 0pt{%
2718     \beamer@tempdim=-\beamer@vboxoffset%
2719     \advance\beamer@tempdim by-\beamer@boxsize%
2720     \multiply\beamer@tempdim by\beamer@ypos%
2721     \advance\beamer@tempdim by -.05cm%
2722     \raise\beamer@tempdim\hbox{%
2723       \beamer@tempdim=\beamer@boxsize%
2724       \multiply\beamer@tempdim by\beamer@xpos%
2725       \advance\beamer@tempdim by -\beamer@boxsize%
2726       \advance\beamer@tempdim by 1pt%
2727       \kern\beamer@tempdim
2728       \global\beamer@section@min@dim\beamer@tempdim
2729       \hbox{\beamer@link(#4){%
2730         \usebeamerfont{mini frame}%
2731         \ifnum\c@section=#1%
2732           \ifnum\c@subsection=#2%
2733             \usebeamercolor[fg]{mini frame}%
2734             \ifnum\c@subsectionslide=#3%
2735               \usebeamertemplate{mini frame}%\beamer@minislidehighlight%
2736             \else%
2737               \usebeamertemplate{mini frame in current subsection}%\beamer@minisliderowhil
2738             \fi%
2739           \else%
2740             \usebeamercolor{mini frame}%

```



```

2741         %\color{fg!50!bg}%
2742         \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2743         \fi%
2744     \else%
2745         \usebeamercolor{mini frame}%
2746         %\color{fg!50!bg}%
2747         \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2748         \fi%
2749     }}}} \hskip-10cm plus 1fil%
2750 } \fi \fi%
2751 \else%
2752 \fakeslideentry{#1}{#2}{#3}{#4}{#5}{#6}%
2753 \fi \ignorespaces
2754 }
2755
2756 \pgfdefobject{bidi@beamer@RTL@gotosymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2757 {
2758     \pgfpathmoveto{3.5bp}{0.5bp}
2759     \pgfpathqlineto{1.5bp}{2bp}
2760     \pgfpathqlineto{3.5bp}{3.5bp}
2761     \pgfusepathqfill
2762 }
2763
2764 \def\insertgotosymbol{%
2765 \if@RTL
2766     \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2767         \pgfuseobject{bidi@beamer@RTL@gotosymbol}%
2768     \end{pgfpicture}%
2769 \else
2770     \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2771         \pgfuseobject{beamer@gotosymbol}%
2772     \end{pgfpicture}%
2773 \fi
2774 }
2775
2776 \pgfdefobject{bidi@beamer@RTL@skipsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{7pt}{5pt}}
2777 {
2778     \pgfpathmoveto{5.5bp}{0.5bp}
2779     \pgfpathqlineto{3.5bp}{2bp}
2780     \pgfpathqlineto{5.5bp}{3.5bp}
2781     \pgfpathmoveto{3.5bp}{0.5bp}
2782     \pgfpathqlineto{1.5bp}{2bp}
2783     \pgfpathqlineto{3.5bp}{3.5bp}
2784     \pgfusepathqfill
2785 }
2786
2787 \def\insertskipsymbol{%
2788 \if@RTL
2789     \begin{pgfpicture}{-1pt}{0pt}{6pt}{5pt}
2790         \pgfuseobject{bidi@beamer@RTL@skipsymbol}%
2791     \end{pgfpicture}%
2792 \else
2793     \begin{pgfpicture}{1pt}{0pt}{8pt}{5pt}
2794         \pgfuseobject{beamer@skipsymbol}%

```



```

2795 \end{pgfpicture}%
2796 \fi
2797 }
2798
2799 \pgfdefobject{bidi@beamer@RTL@returnsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2800 {
2801 \pgfpathmoveto{1.5bp}{0.5bp}
2802 \pgfpathqlineto{3.5bp}{2bp}
2803 \pgfpathqlineto{1.5bp}{3.5bp}
2804 \pgfusepathqfill
2805 }
2806
2807 \def\insertreturnsymbol{%
2808 \if@RTL
2809 \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2810 \pgfuseobject{bidi@beamer@RTL@returnsymbol}%
2811 \end{pgfpicture}%
2812 \else
2813 \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2814 \pgfuseobject{beamerreturnsymbol}%
2815 \end{pgfpicture}%
2816 \fi
2817 }
2818
2819

```

24 File beamerbaseoverlay-xetex-bidi.def

```

2820 \ProvidesFile{beamerbaseoverlay-xetex-bidi.def}[2022/06/10 v0.1 bidi adaptations for beamer]
2821 \renewcommand<>{\color}{\alt#1{\beameroriginal{\color}}{\beamer@gobbleoptionalinsp}}
2822
2823

```

25 File beamerinnerthemedefault-xetex-bidi.def

```

2824 \ProvidesFile{beamerinnerthemedefault-xetex-bidi.def}[2022/06/27 v0.6 bidi adaptations for beamer]
2825 \newcommand*{\bidi@beamer@leftskip}{%
2826 \if@RTL
2827 \rightskip
2828 \else
2829 \leftskip
2830 \fi
2831 }
2832
2833 \newcommand*{\bidi@beamer@rightskip}{%
2834 \if@RTL
2835 \leftskip
2836 \else
2837 \rightskip
2838 \fi
2839 }
2840
2841 \bidi@csundef{beamer@tmpop@subsection in toc@default}
2842

```



```

2843 \bidi@csundef{beamer@@tmpop@subsubsection in toc@default}
2844
2845 \defbeamertemplate*{subsection in toc}{default}
2846 {\leavevmode\bidi@beamer@leftskip=1.5em\inserttocsubsection\par}
2847
2848 \defbeamertemplate*{subsubsection in toc}{default}
2849 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em%
2850 \usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
2851
2852 \newcommand*{\bidi@beamer@blacktriangle}{%
2853 \if@RTL
2854 \blacktriangleleft%
2855 \else
2856 \blacktriangleright%
2857 \fi
2858 }
2859
2860 \bidi@csundef{beamer@@tmpop@itemize item@default}
2861
2862 \bidi@csundef{beamer@@tmpop@itemize subitem@default}
2863
2864 \bidi@csundef{beamer@@tmpop@itemize subsubitem@default}
2865
2866 \defbeamertemplate*{itemize item}{default}{\usebeamerfont*{itemize item}\raise1.25pt\hbox{\d
2867 \defbeamertemplate*{itemize subitem}{default}{\usebeamerfont*{itemize subitem}\raise1.5pt\hb
2868 \defbeamertemplate*{itemize subsubitem}{default}{\usebeamerfont*{itemize subsubitem}\raise1.
2869
2870 \bidi@undef\beamer@@tmpop@footnote@default
2871
2872 \defbeamertemplate*{footnote}{default}
2873 {
2874 \parindent 1em\noindent%
2875 \bidi@beamer@ragged
2876 \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2877 }
2878
2879 \defbeamertemplate*{RTLfootnote}{default}
2880 {
2881 \parindent 1em\noindent%
2882 \raggedleft
2883 \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2884 }
2885
2886 \defbeamertemplate*{LTRfootnote}{default}
2887 {
2888 \parindent 1em\noindent%
2889 \raggedright
2890 \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2891 }
2892
2893 \bidi@undef\beamer@@tmpop@caption@default
2894
2895 \defbeamertemplate*{caption}{default}
2896 {%

```



```

2897 \bidi@beamer@ragged
2898 {%
2899   \leavevmode
2900   \usebeamercolor[fg]{caption name}%
2901   \usebeamerfont*{caption name}%
2902   \insertcaptionname
2903   \usebeamertemplate{caption label separator}%
2904 }%
2905 \insertcaption\par
2906 }
2907
2908 \bidi@csundef{beamer@@tmpop@block begin@default}
2909
2910 \bidi@csundef{beamer@@tmpop@block alerted begin@default}
2911
2912 \bidi@csundef{beamer@@tmpop@block example begin@default}
2913
2914 \defbeamertemplate*{block begin}{default}
2915 {
2916   \par\vskip\medskipamount%
2917   \begin{beamercolorbox}[colsep*=.75ex]{block title}
2918     \usebeamerfont*{block title}\insertblocktitle%
2919   \end{beamercolorbox}%
2920   {\parskip0pt\par}%
2921   \ifbeamercolorempthy[bg]{block title}
2922   {}
2923   {\ifbeamercolorempthy[bg]{block body}{}\nointerlineskip\vskip-0.5pt}}%
2924   \usebeamerfont{block body}%
2925   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body}%
2926     \ifbeamercolorempthy[bg]{block body}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\basel
2927   }
2928
2929 \defbeamertemplate*{block alerted begin}{default}
2930 {
2931   \par\vskip\medskipamount%
2932   \begin{beamercolorbox}[colsep*=.75ex]{block title alerted}
2933     \usebeamerfont*{block title alerted}\insertblocktitle%
2934   \end{beamercolorbox}%
2935   {\parskip0pt\par}%
2936   \ifbeamercolorempthy[bg]{block title alerted}
2937   {}
2938   {\ifbeamercolorempthy[bg]{block body alerted}{}\nointerlineskip\vskip-0.5pt}}%
2939   \usebeamerfont{block body alerted}%
2940   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body alerted}%
2941     \ifbeamercolorempthy[bg]{block body alerted}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75e
2942   }
2943
2944 \defbeamertemplate*{block example begin}{default}
2945 {
2946   \par\vskip\medskipamount%
2947   \begin{beamercolorbox}[colsep*=.75ex]{block title example}
2948     \usebeamerfont*{block title example}\insertblocktitle%
2949   \end{beamercolorbox}%
2950   {\parskip0pt\par}%

```



```

2951 \ifbeamercolorempy[bg]{block title example}
2952 {}
2953 {\ifbeamercolorempy[bg]{block body example}{\nointerlineskip\vskip-0.5pt}}%
2954 \usebeamerfont{block body example}%
2955 \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body example}%
2956   \ifbeamercolorempy[bg]{block body example}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex}
2957 }
2958
2959 \bidi@csundef{beamer@@tmpop@abstract begin@default}
2960
2961 \defbeamerteremplate*{abstract begin}{default}
2962 {\beamercolorbox[vmode]{abstract}\bidi@beamer@leftskip2em\bidi@beamer@rightskip2em plus 1fil}
2963
2964 \bidi@undef\beamer@@tmpop@button@default
2965
2966 \defbeamerteremplate*{button}{default}
2967 {%
2968   \setbox\beamer@tempbox=\hbox{\insertbuttontext}}%
2969   \ht\beamer@tempbox=6pt%
2970   \dp\beamer@tempbox=0pt%
2971   \setbox\beamer@tempbox=\vbox{\box\beamer@tempbox\vskip2pt}%
2972   \beamer@tempdim=\wd\beamer@tempbox%
2973   \beamer@dima=\beamer@tempdim\advance\beamer@dima by2.2pt
2974   \beamer@dimb=\beamer@tempdim\advance\beamer@dimb by4pt
2975   \if@RTL
2976     \kern4pt%
2977     \box\beamer@tempbox%
2978     \hskip-\beamer@tempdim%
2979   \fi
2980   \begin{pgfpicture}{-4pt}{0pt}{\the\beamer@tempdim}{8pt}
2981     \color{bg}
2982     \pgfsetlinewidth{0.8pt}
2983     \pgfpathmoveto{0pt}{0pt}
2984     \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2985     \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2986     \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2987     \pgfpathcurveto%
2988       {\pgfpoint{\the\beamer@dima}{8pt}}%
2989       {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
2990       {\pgfpoint{\the\beamer@dimb}{4pt}}
2991     \pgfpathcurveto%
2992       {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
2993       {\pgfpoint{\the\beamer@dima}{0pt}}%
2994       {\pgfpoint{\the\beamer@tempdim}{0pt}}
2995     \pgfpathclose
2996     \pgfusepathqfill
2997     \colorlet{bg}{parent.bg}
2998     \usebeamercolor[fg]{button border}
2999     \pgfpathmoveto{0pt}{0pt}
3000     \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
3001     \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
3002     \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
3003     \pgfpathcurveto%
3004       {\pgfpoint{\the\beamer@dima}{8pt}}%

```



```

3005     {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
3006     {\pgfpoint{\the\beamer@dimb}{4pt}}
3007     \pgfpathcurveto%
3008     {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
3009     {\pgfpoint{\the\beamer@dimb}{0pt}}%
3010     {\pgfpoint{\the\beamer@tempdim}{0pt}}
3011     \pgfpathclose
3012     \pgfusepathqstroke
3013 \end{pgfpicture}%
3014 \if@RTL
3015 \else
3016     \hskip-\beamer@tempdim%
3017     \box\beamer@tempbox%
3018     \kern4pt%
3019 \fi
3020 }
3021
3022

```

26 File beamerinnerthemecircles-xetex-bidi.def

```

3023 \ProvidesFile{beamerinnerthemecircles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations for bea
3024 \setbeamertemplate{sections/subsections in toc}[circle]
3025

```

27 File beamerinnerthemefocus-xetex-bidi.def

```

3026 \ProvidesFile{beamerinnerthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea
3027 \setbeamertemplate{section in toc}[square]
3028 \setbeamertemplate{subsection in toc}[square]
3029
3030 \setbeamertemplate{itemize items}[square]
3031 \setbeamertemplate{itemize subitem}[triangle]
3032
3033 \bidi@csundef{beamer@@tmpop@title page@focus}
3034
3035 \defbeamertemplate*{title page}{focus}{%
3036     {%
3037         \usebeamercolor{frametitle}\colorlet{focus@temp}{bg}%
3038         \begin{tikzpicture}[overlay, remember picture]
3039             \fill[color=focus@temp] (current page.north west) rectangle ([shift = {(0, -0.4
3040         \end{tikzpicture}
3041     }
3042
3043     \vspace{-1.65\baselineskip}
3044     \begin{minipage}[b][0.35\paperheight]{\textwidth}
3045         \vspace{\baselineskip}
3046         \usebeamerfont{title}
3047         \usebeamercolor[fg]{frametitle}
3048         \inserttitle
3049     \end{minipage}
3050
3051     \begin{minipage}[t][0.1\paperheight]{\textwidth}
3052         \usebeamerfont{subtitle}

```



```

3053         \usebeamercolor[fg]{frametitle}
3054         \insertsubtitle
3055     \end{minipage}
3056
3057     % Set the title graphic in a zero-height box, so that
3058     % the position of other elements is not affected.
3059     {\vfuzz=9999pt\vbox to 0pt {
3060         \if@RTL
3061             \raggedright
3062         \else
3063             \raggedleft
3064         \fi
3065         \inserttitlegraphic
3066     }}
3067
3068     \begin{minipage}[t]{\textwidth}
3069         \usebeamerfont{author}
3070         \insertauthor
3071     \end{minipage}
3072
3073     \vspace*{\baselineskip}
3074     \begin{minipage}[t]{\textwidth}
3075         \usebeamerfont{institute}
3076         \insertinstitute
3077     \end{minipage}
3078
3079     \vspace*{\baselineskip}
3080     \begin{minipage}[t]{\textwidth}
3081         \usebeamerfont{date}
3082         \insertdate
3083     \end{minipage}
3084
3085     \vspace*{0pt plus 100fill}
3086
3087     \addtocounter{framenum}{-1}
3088     \addtocounter{realframenum}{-1}
3089 }
3090
3091
3092

```

28 File beamerinnerthemeinmargin-xetex-bidi.def

```

3093 \ProvidesFile{beamerinnerthemeinmargin-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for
3094 \AtBeginDocument{%
3095     \setbeamsize{sidebar width left=.25\paperwidth}%
3096 }
3097
3098 \bidi@csundef{beamer@@tmpop@section in toc@inmargin}
3099
3100 \bidi@csundef{beamer@@tmpop@title page@inmargin}
3101
3102 \bidi@csundef{beamer@@tmpop@block begin@inmargin}
3103

```




```

3104 \bidi@csundef{beamer@@tmpop@block end@inmargin}
3105
3106 \bidi@csundef{beamer@@tmpop@block alerted begin@inmargin}
3107
3108 \bidi@csundef{beamer@@tmpop@block alerted end@inmargin}
3109
3110 \bidi@csundef{beamer@@tmpop@block example begin@inmargin}
3111
3112 \bidi@csundef{beamer@@tmpop@block example end@inmargin}
3113
3114 \defbeamertemplate*{section in toc}{inmargin}
3115 {\leavevmode
3116   \beamer@putleft{\usebeamercolor[fg]{section in toc}\inserttocsection}\strut}{2.5ex}}
3117
3118 \defbeamertemplate*{title page}{inmargin}
3119 {
3120   \begin{block}{\inserttitleindicator}
3121     \bgroup\usebeamercolor[fg]{title}\usebeamerfont{title}\inserttitle\egroup\par
3122     \usebeamercolor[fg]{subtitle}\usebeamerfont{subtitle}\insertsubtitle
3123   \end{block}
3124   \vfill
3125   \ifx\insertauthor\@empty
3126   \else
3127     \begin{block}{\insertauthorindicator}
3128       \bgroup\usebeamercolor[fg]{author}\usebeamerfont{author}\insertauthor\egroup\par
3129     \end{block}
3130     \fi
3131     \ifx\insertinstitute\@empty
3132     \else
3133       \begin{block}{\insertinstituteindicator}
3134         \bgroup\usebeamercolor[fg]{institute}\usebeamerfont{institute}\insertinstitute\egroup\par
3135       \end{block}
3136       \fi
3137       \ifx\insertdate\@empty
3138       \else
3139         \begin{block}{\insertdateindicator}
3140           \bgroup\usebeamercolor[fg]{date}\usebeamerfont{date}\insertdate\egroup\par
3141         \end{block}
3142         \fi
3143     }
3144
3145 \defbeamertemplate*{block begin}{inmargin}
3146 {
3147   \par\vskip\medskipamount%
3148   \leavevmode%
3149   \beamer@putleft{\normalfont\usebeamercolor[fg]{block title}\usebeamerfont*{block title}\i
3150   \beginL\beamer@putright
3151     %\usebeamercolor[fg]{block body}% to be done!
3152 }
3153
3154 \defbeamertemplate*{block end}{inmargin}
3155 {\endbeamer@putright\endL\vskip\smallskipamount}
3156
3157 \defbeamertemplate*{block alerted begin}{inmargin}

```



```

3158 {
3159   \par\vskip\medskipamount%
3160   \leavevmode%
3161   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title alerted}}\usebeamerfont*{block
3162   \beginL\beamer@putright
3163   %\usebeamercolor[fg]{block body alerted}% to be done!
3164 }
3165
3166 \defbeamertemplate*{block alerted end}{inmargin}
3167 {\endbeamer@putright\endL\vskip\smallskipamount}
3168
3169 \defbeamertemplate*{block example begin}{inmargin}
3170 {
3171   \par\vskip\medskipamount%
3172   \leavevmode%
3173   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title example}}\usebeamerfont*{block
3174   \beginL\beamer@putright
3175   %\usebeamercolor[fg]{block body example}% to be done
3176 }
3177
3178 \defbeamertemplate*{block example end}{inmargin}
3179 {\endbeamer@putright\endL\vskip\smallskipamount}
3180
3181 \bidi@AfterFile{beamerinnerthememetropolis-xetex-bidi.def}{%
3182   \setbeamertemplate{section in toc}[inmargin]%
3183   \setbeamertemplate{subsection in toc}[inmargin]%
3184   \setbeamertemplate{subsubsection in toc}[inmargin]%
3185 }
3186
3187

```

29 File beamerinnerthememetropolis-xetex-bidi.def

```

3188 \ProvidesFile{beamerinnerthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
3189 \setbeamertemplate{title}{
3190   \bidi@beamer@ragged%
3191   \linespread{1.0}%
3192   \inserttitle%
3193   \par%
3194   \vspace*{0.5em}
3195 }
3196
3197 \setbeamertemplate{subtitle}{
3198   \bidi@beamer@ragged%
3199   \insertsubtitle%
3200   \par%
3201   \vspace*{0.5em}
3202 }
3203
3204 \bidi@csundef{beamer@@tmpop@section page@progressbar}
3205
3206 \defbeamertemplate{section page}{progressbar}{
3207   \centering
3208   \begin{minipage}{22em}

```



```

3209 \bidi@beamer@ragged
3210 \usebeamercolor[fg]{section title}
3211 \usebeamerfont{section title}
3212 \insertsectionhead\[-1ex]
3213 \usebeamertemplate*{progress bar in section page}
3214 \par
3215 \ifx\insertsubsectionhead\@empty\else%
3216 \usebeamercolor[fg]{subsection title}%
3217 \usebeamerfont{subsection title}%
3218 \insertsubsectionhead
3219 \fi
3220 \end{minipage}
3221 \par
3222 \vspace{\baselineskip}
3223 }
3224
3225 \setbeamertemplate{progress bar in section page}{
3226 \setlength{\metropolis@progressonsectionpage}{%
3227 \textwidth * \ratio{\insertframenumber pt}{\inserttotalframenumber pt}}%
3228 }%
3229 \begin{tikzpicture}
3230 \fill[bg] (0,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3231 \if@RTLmain
3232 \fill[fg] (\textwidth-\metropolis@progressonsectionpage,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3233 \else
3234 \fill[fg] (0,0) rectangle (\metropolis@progressonsectionpage, \metropolis@progressonsectionpage@linewidth);
3235 \fi
3236 \end{tikzpicture}%
3237 }
3238
3239 \renewcommand{\metropolis@block}[1]{
3240 \par\vskip\medskipamount%
3241 \setlength{\parskip}{0pt}
3242 \ifbeamercolorempy[bg]{block title#1}{%
3243 \if@RTL
3244 \begin{beamercolorbox}[leftskip=0pt plus 4em]{block title#1}%
3245 \else
3246 \begin{beamercolorbox}[rightskip=0pt plus 4em]{block title#1}%
3247 \fi
3248 }{%
3249 \ifbeamercolorempy[bg]{block title}{%
3250 \if@RTL
3251 \begin{beamercolorbox}[leftskip=0pt plus 4em]{block title#1}%
3252 \else
3253 \begin{beamercolorbox}[rightskip=0pt plus 4em]{block title#1}%
3254 \fi
3255 }%
3256 {%
3257 \if@RTL
3258 \begin{beamercolorbox}[
3259 sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3260 rightskip=\metropolis@blockadjust,
3261 leftskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3262 ]{block title#1}%

```



```

3263 \else
3264 \begin{beamercolorbox}[
3265     sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3266     leftskip=\metropolis@blockadjust,
3267     rightskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3268 ]{block title#1}%
3269 \fi
3270 }}%
3271 \usebeamerfont*{block title#1}%
3272 \metropolis@strut%
3273 \insertblocktitle%
3274 \metropolis@strut%
3275 \end{beamercolorbox}%
3276 \nointerlineskip%
3277 \ifbeamercoloreempty[bg]{block body#1}{%
3278     \begin{beamercolorbox}[vmode]{block body#1}}{
3279 \ifbeamercoloreempty[bg]{block body}{%
3280     \begin{beamercolorbox}[vmode]{block body#1}%
3281 }{%
3282     \begin{beamercolorbox}[sep=\metropolis@blocksep, vmode]{block body#1}%
3283     \vspace{-\metropolis@parskip}
3284 }}%
3285 \usebeamerfont{block body#1}%
3286 \setlength{\parskip}{\metropolis@parskip}%
3287 }
3288
3289
3290 \setbeamertemplate{footnote}{%
3291     \parindent 0em\noindent%
3292     \bidi@beamer@ragged
3293     \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3294 }
3295
3296 \setbeamertemplate{RTLfootnote}{%
3297     \parindent 0em\noindent%
3298     \raggedleft
3299     \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3300 }
3301
3302 \setbeamertemplate{LTRfootnote}{%
3303     \parindent 0em\noindent%
3304     \raggedright
3305     \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3306 }
3307
3308 \setbeamertemplate{itemize items}{\textbullet}
3309
3310 \setbeamertemplate{section page}[progressbar]
3311
3312

```

30 File beamerinnerthemerectangles-xetex-bidi.def

```

3313 \ProvidesFile{beamerinnerthemerectangles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations fo

```



```

3314 \setbeamertemplate{sections/subsections in toc}[square]
3315 \setbeamertemplate{items}[square]
3316

```

31 File beamerinnerthemrounded-xetex-bidi.def

```

3317 \ProvidesFile{beamerinnerthemrounded-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for b
3318 \setbeamertemplate{blocks}[rounded] [shadow=\beamer@themrounded@shadow]
3319 \setbeamertemplate{items}[ball]
3320 \setbeamertemplate{sections/subsections in toc}[ball]
3321

```

32 File beamerouterthemedefault-xetex-bidi.def

```

3322 \ProvidesFile{beamerouterthemedefault-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for b
3323 \def\beamer@fteleft{\if@RTLmain\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightskip by1.
3324
3325 \def\beamer@fteright{\if@RTLmain\else\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightski
3326
3327 \AtBeginDocument{%
3328   \if@RTLmain
3329     \setbeamertemplate{frametitle}[default] [right]
3330   \fi
3331 }
3332
3333 \bidi@csundef{beamer@@tmpop@note page@default}
3334
3335 \newcommand*{\bidi@beamer@today}{%
3336 \the\year-\ifnum\month<10\relax0\fi\the\month-\ifnum\day<10\relax0\fi\the\day}
3337
3338 \defbeamertemplate*{note page}{default}
3339 {%
3340   {%
3341     \scriptsize
3342     \usebeamerfont{note title}\usebeamercolor[fg]{note title}%
3343     \ifbeamercolorempy[bg]{note title}{\fi}%
3344     \insertvrule{.25\paperheight}{note title.bg}%
3345     \vskip-.25\paperheight%
3346     \nointerlineskip%
3347   }%
3348   \vbox{
3349     \hfill\insertslideintonotes{0.25}\hskip-\Gm@rmargin\hskip0pt%
3350     \vskip-0.25\paperheight%
3351     \nointerlineskip
3352     \if@RTL
3353       \begin{pgfpicture}{-\textwidth}{0cm}{-\textwidth}{0cm}
3354         \begin{pgflowlevelslope}{\pgftransformrotate{-90}}
3355           {\pgftransformshift{\pgfpoint{2cm}{0.2cm}}}%
3356           \pgftext[base,right]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3357         \end{pgflowlevelslope}
3358       \end{pgfpicture}%
3359     \else
3360       \begin{pgfpicture}{0cm}{0cm}{0cm}{0cm}
3361         \begin{pgflowlevelslope}{\pgftransformrotate{90}}

```



```

3362         {\pgftransformshift{\pgfpoint{-2cm}{0.2cm}}}%
3363         \pgftext[base,left]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@B
3364         \end{pgflowlevelslope}
3365         \end{pgfpicture}%
3366         \fi}
3367     \nointerlineskip
3368     \vbox to .25\paperheight{\vskip0.5em
3369     \if@RTL
3370         \moveright0.25\textwidth
3371     \fi
3372         \hbox{\insertshorttitle[width=0.75\textwidth]}}%
3373         \setbox\beamer@tempbox=\hbox{\insertsection}%
3374
3375     \if@RTL
3376         \moveright\dimexpr0.29\textwidth-14pt\relax
3377     \fi
3378     \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip4pt\raise3pt\hbox{\vrule
3379         width0.4pt height7pt\vrule width 9pt
3380         height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}%
3381         \if@RTL\endR\fi}}%
3382         \setbox\beamer@tempbox=\hbox{\insertsubsection}%
3383
3384     \if@RTL
3385         \moveright\dimexpr0.29\textwidth-27.4pt\relax
3386     \fi         \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip17.4pt\raise3pt\hbox{\vrule
3387         width0.4pt height7pt\vrule width 9pt
3388         height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}%
3389         \if@RTL\endR\fi}}%
3390         \setbox\beamer@tempbox=\hbox{\insertshortframetitle}%
3391
3392     \if@RTL
3393         \moveright\dimexpr0.33\textwidth-40.8pt\relax
3394     \fi         \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip30.8pt\raise3pt\hbox{\vrule
3395         width0.4pt height7pt\vrule width 9pt
3396         height0.4pt}}\hskip1pt\hbox{\insertshortframetitle[width=0.67\textwidth]}\fi%
3397         \if@RTL\endR\fi}}%
3398         \vfil}%
3399     }%
3400     \ifbeamercolorempy[bg]{note page}{}{%
3401         \nointerlineskip%
3402         \insertvrule{.75\paperheight}{note page.bg}%
3403         \vskip-.75\paperheight%
3404     }%
3405     \vskip.25em
3406     \nointerlineskip
3407     \insertnote
3408 }
3409
3410
3411

```

33 File beamerouterthemefocus-xetex-bidi.def

```

3412 \ProvidesFile{beamerouterthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea

```



```

3413 \bidi@undef\beamer@@tmpop@footline@progressbar
3414
3415 \defbeamertertemplate*{footline}{progressbar}{%
3416   % If not appendix.
3417   \ifnum\mainend<0% From package appendixnumberbeamer.
3418   %
3419   \settowidth{\focus@pbar@leftoffset}{1}%
3420   \addtolength{\focus@pbar@leftoffset}{1.5em}%
3421   %
3422   \ifx\beamer@focus@totalframenummering\no%
3423     \settowidth{\focus@pbar@rightoffset}{}%
3424     \addtolength{\focus@pbar@rightoffset}{0.5em}%
3425   \else%
3426     \settowidth{\focus@pbar@rightoffset}{\inserttotalframenummer}%
3427     \addtolength{\focus@pbar@rightoffset}{1.5em}%
3428   \fi%
3429   %
3430   % If not title page.
3431   \ifnum\value{realframenummer}>0%
3432     \ifnum\value{framenummer}<\inserttotalframenummer%
3433       \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]\usebeamerfont{footli
3434         \pgfmathsetmacro{\focus@pbar@progress}%
3435           {(\paperwidth-\focus@pbar@leftoffset-\focus@pbar@rightoffset)*(\inse
3436
3437         \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3438 \if@RTLmain
3439         \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@leftoff
3440         \fill[footline.bg] (\paperwidth-\the\focus@pbar@leftoffset,0) rectangle
3441           ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=west,
3442 \else
3443         \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@leftoffset,\the\fo
3444         \fill[footline.bg] (\the\focus@pbar@leftoffset,0) rectangle ++(\focus@pb
3445           ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=east,
3446 \fi
3447         \ifx\beamer@focus@totalframenummering\no%
3448         \else%
3449 \if@RTLmain
3450         \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@rightoffset,\t
3451           ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=e
3452 \else
3453         \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@rig
3454           ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=w
3455 \fi
3456         \fi%
3457         \end{tikzpicture}%
3458       \else%
3459         \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]
3460         \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3461         \fill[footline.bg] (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height
3462 \if@RTLmain
3463         \node[anchor=west, footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\
3464 \else
3465         \node[anchor=east, footline.fg] at ({\paperwidth-\the\focus@pbar@rightof
3466 \fi

```



```

3467             \ifx\beamer@focus@totalframenumbers\no%
3468             \else%
3469 \if@RTLmain
3470             \node[footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\focus@pba
3471             \node[anchor=east, footline.fg] at ({\the\focus@pbar@rightoffset},{0
3472 \else
3473             \node[footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.
3474             \node[anchor=west, footline.fg] at ({\paperwidth-\the\focus@pbar@rig
3475 \fi
3476             \fi%
3477             \end{tikzpicture}%
3478             \fi%
3479             \fi%
3480             \fi%
3481 }
3482
3483

```

34 File beamerouterthemeinfoclines-xetex-bidi.def

```

3484 \ProvidesFile{beamerouterthemeinfoclines-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for
3485 \bidi@csundef{beamer@@tmpop@footline@infoclines theme}
3486
3487 \defbeamertemplate*{footline}{infoclines theme}
3488 {%
3489   \leavevmode%
3490   \hbox{%
3491     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{author in head/foot}%
3492     \usebeamerfont{author in head/foot}\insertshortauthor\expandafter\ifblank\expandafter{\b
3493     \end{beamercolorbox}%
3494     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{title in head/foot}%
3495     \usebeamerfont{title in head/foot}\insertshorttitle
3496     \end{beamercolorbox}%
3497     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,leftskip=2ex,rightskip=2ex,s
3498     \hfill%
3499     \usebeamerfont{date in head/foot}%
3500     \insertshortdate{}%
3501     \hfill%
3502     \bgroup
3503     \usebeamerfont{page number in head/foot}%
3504     \usebeamerfont{page number in head/foot}%
3505     \usebeamertemplate{page number in head/foot}%
3506     \egroup
3507     \end{beamercolorbox}}%
3508     \vskip0pt%
3509 }
3510
3511 \bidi@csundef{beamer@@tmpop@headline@infoclines theme}
3512
3513 \defbeamertemplate*{headline}{infoclines theme}
3514 {%
3515   \leavevmode%
3516   \hbox{%
3517     \if@RTL

```




```

3518 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{section in head/foot}%
3519 \else
3520 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{section in head/foot}%
3521 \fi
3522 \usebeamerfont{section in head/foot}\insertsectionhead\hspace*{2ex}
3523 \end{beamercolorbox}%
3524 \if@RTL
3525 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{subsection in head/foot}%
3526 \else
3527 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{subsection in head/foot}%
3528 \fi
3529 \usebeamerfont{subsection in head/foot}\hspace*{2ex}\insertsubsectionhead
3530 \end{beamercolorbox}}%
3531 \vskip0pt%
3532 }
3533
3534 \bidi@AfterFile{beamerouterthememsplit-xetex-bidi.def}{%
3535 \setbeamertemplate{footline}[infolines theme]%
3536 }
3537

```

35 File beamerouterthememetropolis-xetex-bidi.def

```

3538 \ProvidesFile{beamerouterthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
3539 \setbeamertemplate{progress bar in head/foot}{
3540 \nointerlineskip
3541 \setlength{\metropolis@progressinheadfoot}{%
3542 \paperwidth * \ratio{\insertframenumber pt}{\inserttotalframenumber pt}}%
3543 }%
3544 \begin{beamercolorbox}[wd=\paperwidth]{progress bar in head/foot}
3545 \begin{tikzpicture}
3546 \fill[bg] (0,0) rectangle (\paperwidth, \metropolis@progressinheadfoot@linewidth);
3547 \if@RTLmain
3548 \fill[fg] (\paperwidth-\metropolis@progressinheadfoot,0) rectangle (\paperwidth, \metr
3549 \else
3550 \fill[fg] (0,0) rectangle (\metropolis@progressinheadfoot, \metropolis@progressinheadf
3551 \fi
3552 \end{tikzpicture}%
3553 \end{beamercolorbox}
3554 }
3555
3556 \AtBeginDocument{%
3557 \setbeamertemplate{frametitle}[plain]%
3558 }
3559
3560

```

36 File beamerouterthememiniframes-xetex-bidi.def

```

3561 \ProvidesFile{beamerouterthememiniframes-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3562 \bidi@csundef{beamer@tmpop@headline@miniframes theme}
3563
3564 \defbeamertemplate*{headline}{miniframes theme}
3565 {%

```



```

3566 \begin{beamercolorbox}[colsep=1.5pt]{upper separation line head}
3567 \end{beamercolorbox}
3568 \begin{beamercolorbox}{section in head/foot}
3569 \vskip2pt\if@RTL\beginR\fi\insertnavigation{\paperwidth}\if@RTL\endR\fi\vskip2pt
3570 \end{beamercolorbox}%
3571 \ifbeamer@theme@subsection%
3572 \begin{beamercolorbox}[colsep=1.5pt]{middle separation line head}
3573 \end{beamercolorbox}
3574 \if@RTL
3575 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3576 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3577 \else
3578 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3579 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3580 \fi
3581 \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3582 \end{beamercolorbox}%
3583 \fi%
3584 \begin{beamercolorbox}[colsep=1.5pt]{lower separation line head}
3585 \end{beamercolorbox}
3586 }
3587
3588

```

37 File beamerouterthemesidebar-xetex-bidi.def

```

3589 \ProvidesFile{beamerouterthemesidebar-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for b
3590 \bidi@csundef{beamer@@tmpop@frametitle@sidebar theme}
3591
3592 \bidi@csundef{beamer@@tmpop@headline@sidebar theme}
3593
3594 \bidi@csundef{beamer@@tmpop@sidebar left@sidebar theme}
3595
3596 \bidi@csundef{beamer@@tmpop@sidebar right@sidebar theme}
3597
3598 \ifdim\beamer@headheight>0pt
3599
3600 \defbeamer*template*{frametitle}{sidebar theme}
3601 {%
3602 \nointerlineskip%
3603 \ifbeamer@plainframe%
3604 \hbox{\usebeamercolor[bg]{frametitle}%
3605 \@tempdima\paperwidth\advance\@tempdima-\beamer@sidebarwidth
3606 \hskip-\beamer@leftmargin\vrule height\beamer@headheight width\@tempdima\hskip-\bea
3607 \nointerlineskip%
3608 \fi%
3609 \vskip-\beamer@headheight%
3610 \vbox to \beamer@headheight{%
3611 \vfil
3612 \bidi@beamer@leftskip=-\beamer@leftmargin%
3613 \advance\bidi@beamer@leftskip by0.3cm%
3614 \bidi@beamer@rightskip=-\beamer@rightmargin%
3615 \advance\bidi@beamer@rightskip by0.3cm plus1fil%
3616 {\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframetitle\par}

```



```

3617     \ifx\insertframesubtitle\@empty\else%
3618         {\usebeamercolor[fg]{framesubtitle}\usebeamerfont{framesubtitle}\strut\insertframesubtitle}%
3619     \fi%
3620     \vbox{}%
3621     \vskip-1em%
3622     \vfil
3623 }%
3624 }
3625
3626 \AtBeginDocument{%
3627     \setbeamertemplate{frametitle}[sidebar theme]%
3628 }
3629
3630 \defbeamertemplate*{headline}{sidebar theme}
3631 {%
3632     \begin{beamercolorbox}[wd=\paperwidth]{frametitle}
3633         \ifx\beamer@sidebarside\beamer@lefttext%
3634             \else%
3635                 \hfill%
3636             \fi%
3637         \ifdim\beamer@sidebarwidth>0pt%
3638             \bgroup
3639             \usebeamercolor[bg]{logo}%
3640             \if@RTLmain
3641                 \else
3642                     \vrule width\beamer@sidebarwidth height \beamer@headheight%
3643                     \hskip-\beamer@sidebarwidth%
3644                 \fi
3645                 \hbox to \beamer@sidebarwidth{\hss\vbox to
3646                     \beamer@headheight{\vss\hbox{{\color{fg}\insertlogo}}\vss}\hss}%
3647                 \if@RTLmain
3648                     \hskip-\beamer@sidebarwidth%
3649                     \vrule width\beamer@sidebarwidth height \beamer@headheight%
3650                 \fi
3651             \egroup
3652             \else%
3653                 \vrule width0pt height \beamer@headheight%
3654             \fi%
3655         \end{beamercolorbox}
3656     }
3657 \fi
3658
3659 \def\beamer@sidebarformat#1#2#3{%
3660 \if@RTL
3661     \begin{beamercolorbox}[wd=\beamer@sidebarwidth,rightskip=#1,leftskip=1ex plus1fil,vmode]{#2}
3662 \else
3663     \begin{beamercolorbox}[wd=\beamer@sidebarwidth,leftskip=#1,rightskip=1ex plus1fil,vmode]{#2}
3664 \fi
3665     \vbox{}%
3666     #3\par%
3667     \vbox{}%
3668     \vskip-1.5ex%
3669 \end{beamercolorbox}
3670 }

```



```

3671
3672 \ifdim\beamer@sidebarwidth>0pt
3673
3674 \AtBeginDocument{%
3675   \setbeamersize{sidebar width \beamer@sidebarside=\beamer@sidebarwidth}%
3676 }
3677
3678 \defbeamertemplate*{sidebar \beamer@sidebarside}{sidebar theme}
3679 {
3680   \beamer@tempdim=\beamer@sidebarwidth%
3681   \advance\beamer@tempdim by -6pt%
3682   {\usebeamerfont{title in sidebar}%
3683     \vskip1.5em%
3684     \hskip3pt%
3685     \bgroup
3686     \usebeamercolor[fg]{title in sidebar}%
3687     \insertshorttitle[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3688     \vskip1.25em%
3689   }%
3690   {%
3691     \hskip3pt%
3692     \bgroup
3693     \usebeamercolor[fg]{author in sidebar}%
3694     \usebeamerfont{author in sidebar}%
3695     \insertshortauthor[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3696     \vskip1.25em%
3697   }%
3698   \insertverticalnavigation{\beamer@sidebarwidth}%
3699   \vfill
3700   \ifx\beamer@sidebarside\beamer@lefttext%
3701   \else%
3702     \usebeamercolor{normal text}%
3703     \llap{\usebeamertemplate***{navigation symbols}\hskip0.1cm}%
3704     \vskip2pt%
3705   \fi%
3706 }%
3707 \fi
3708

```

38 File beamerouterthemesplit-xetex-bidi.def

```

3709 \ProvidesFile{beamerouterthemesplit-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for bea
3710 \bidi\csundef{beamer@tmpop@footline@split theme}
3711
3712 \defbeamertemplate*{footline}{split theme}
3713 {%
3714   \leavevmode%
3715   \hbox{\if@RTL\begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm pl
3716 \else
3717 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm plus1fill,rightski
3718 \fi
3719   \usebeamerfont{author in head/foot}\insertshortauthor
3720   \end{beamercolorbox}%
3721 \if@RTL

```



```

3722 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm,leftskip=.3cm
3723 \else
3724 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm,rightskip=.3cm p
3725 \fi
3726 \usebeamerfont{title in head/foot}\insertshorttitle\nobreak\hfill\bggroup\usebeamercolor[
3727 \end{beamercolorbox}}}%
3728 \vskip0pt%
3729 }
3730
3731

```

39 File beamerouterthemeshadow-xetex-bidi.def

```

3732 \ProvidesFile{beamerouterthemeshadow-xetex-bidi.def}[2022/06/11 v0.3 bidi adaptations for be
3733 \pgfdeclarehorizontalshading[frametitle.bg,frametitle right.bg]{bidi@beamer@RTL@frametitlesh
3734 color(0pt)=(frametitle right.bg);
3735 color(\paperwidth)=(frametitle.bg)
3736 }
3737
3738 \newcommand*{\bidi@beamer@frametitleshade}{%
3739 \if@RTLmain
3740 \pgfuses shading{bidi@beamer@RTL@frametitleshade}%
3741 \else
3742 \pgfuses shading{beamer@frametitleshade}%
3743 \fi
3744 }
3745
3746 \bidi@csundef{beamer@tmpop@frametitle@shadow theme}
3747
3748 \defbeamer@template*{frametitle}{shadow theme}
3749 {%
3750 \nointerlineskip%
3751 \vskip-2pt%
3752 \hbox{\leavevmode
3753 \advance\beamer@leftmargin by -12bp%
3754 \advance\beamer@rightmargin by -12bp%
3755 \beamer@tempdim=\textwidth%
3756 \advance\beamer@tempdim by \beamer@leftmargin%
3757 \advance\beamer@tempdim by \beamer@rightmargin%
3758 \hskip-\Gm@lmargin\hbox{%
3759 \setbox\beamer@tempbox=\hbox{\begin{minipage}[b]{\paperwidth}%
3760 \vbox{\vskip-.75ex%
3761 \bidi@beamer@leftskip0.3cm%
3762 \bidi@beamer@rightskip0.3cm plus1fil\leavevmode
3763 \bggroup\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframe
3764 \ifx\insertframesubtitle\@empty\else%
3765 {\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\insertframesu
3766 \fi%
3767 \nointerlineskip
3768 \vbox{}}%
3769 \end{minipage}}}%
3770 \beamer@tempdim=\ht\beamer@tempbox%
3771 \advance\beamer@tempdim by 2pt%
3772 \begin{pgfpicture}{0pt}{0pt}{\paperwidth}{\beamer@tempdim}

```



```

3773     \begin{pgfscope}
3774         \pgfsetfillcolor{black}%
3775         \pgfpathrectangle{\pgfpoint{0pt}{-4pt}}{\pgfpoint{\paperwidth}{8pt}}%
3776         \pgfsetfading{beamer@topshadowmask}{}%
3777         \pgfusepath{fill}%
3778     \end{pgfscope}
3779     \begin{pgfscope}
3780         \usebeamercolor{frametitle right}%
3781         \pgfpathrectangle{\pgfpointorigin}{\pgfpoint{\paperwidth}{\beamer@tempdim}}%
3782         \pgfusepath{clip}%
3783         \pgftext[left,base]{\bidi@beamer@frametitleshade}%
3784     \end{pgfscope}
3785     \end{pgfpicture}
3786     \hskip-\paperwidth%
3787     \box\beamer@tempbox%
3788 }%
3789 \hskip-\Gm@rmargin%
3790 }%
3791 \vskip-2pt
3792 }
3793
3794 \AtBeginDocument{%
3795     \setbeamertemplate{frametitle}[shadow theme]%
3796 }
3797
3798

```

40 File beamerouterthemesmoothbars-xetex-bidi.def

```

3799 \ProvidesFile{beamerouterthemesmoothbars-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3800 \bidi@csundef{beamer@@tmpop@headline@smoothbars theme}
3801
3802 \bidi@csundef{beamer@@tmpop@frametitle@smoothbars theme}
3803
3804 \defbeamertemplate*{headline}{smoothbars theme}
3805 {%
3806     \pgfuses shading{beamer@barshade}%
3807     \vskip-0.05ex%
3808     \begin{beamer colorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3809     \begin{pgfpicture}
3810         \begin{pgfscope}%
3811             \ifbeamer@sb@subsection%
3812                 \pgfsetfillcolor{subsection in head/foot.bg}%
3813             \else%
3814                 \pgfsetfillcolor{section in head/foot.bg}%
3815             \fi%
3816             \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3817             \pgfsetfading{beamer@belowframetitlemask}{}%
3818             \pgfusepath{fill}%
3819         \end{pgfscope}%
3820     \end{pgfpicture}%
3821     \end{beamer colorbox}%
3822     \ifbeamer@sb@subsection%
3823         \vskip-9.75ex%

```



```

3824 \else%
3825 \vskip-6.85ex%
3826 \fi%
3827 \begin{beamercolorbox}[ignorebg,ht=2.25ex,dp=3.75ex]{section in head/foot}
3828 \insertnavigation{\paperwidth}
3829 \end{beamercolorbox}%
3830 \ifbeamer@sb@subsection%
3831 \if@RTL
3832 \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3833 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3834 \else
3835 \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3836 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3837 \fi
3838 \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3839 \end{beamercolorbox}%
3840 \fi%
3841 }%
3842
3843 \defbeamertemplate*{frametitle}{smoothbars theme}
3844 {%
3845 \nointerlineskip%
3846 \vskip-0.19ex%
3847 \usebeamerfont{headline}%
3848 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=1ex,vmode]{empty}
3849 \pgfuses shading{beamer@aboveframetitle}%
3850 \end{beamercolorbox}%
3851 \vskip-1ex%
3852 \nointerlineskip%
3853 \if@RTL
3854 \begin{beamercolorbox}[wd=\paperwidth,rightskip=.3cm,leftskip=.3cm plus1fil,vmode]{frameti
3855 \else
3856 \begin{beamercolorbox}[wd=\paperwidth,leftskip=.3cm,rightskip=.3cm plus1fil,vmode]{frameti
3857 \fi
3858 \vskip0.5ex%
3859 \usebeamerfont*{frametitle}\strut\insertframetitle%
3860 \ifx\insertframesubtitle\@empty%
3861 \strut\par%
3862 \else
3863 \par{\usebeamerfont*{framesubtitle}\usebeamercolor[fg]{framesubtitle}\strut\insertf
3864 \fi}%
3865 \usebeamerfont{headline}%
3866 \vskip0.05ex%
3867 \end{beamercolorbox}%
3868 \nointerlineskip%
3869 \vskip-0.05ex%
3870 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3871 \begin{pgfpicture}
3872 \begin{pgfscope}%
3873 \pgfsetfillcolor{frametitle.bg}%
3874 \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3875 \pgfsetfading{beamer@belowframetitlemask}{}%
3876 \pgfusepath{fill}%
3877 \end{pgfscope}%

```



```

3878 \end{pgfpicture}%
3879 \end{beamercolorbox}%
3880 }
3881
3882 \AtBeginDocument{%
3883 \setbeamertheme{frametitle}[smoothbars theme]%
3884 }
3885
3886

```

41 File beamerouterthemesmoothtree-xetex-bidi.def

```

3887 \ProvidesFile{beamerouterthemesmoothtree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3888 \bidi\csundef{beamer@tmpop@headline@smoothtree theme}
3889
3890 \bidi\csundef{beamer@tmpop@frametitle@smoothtree theme}
3891
3892 \defbeamertheme*{headline}{smoothtree theme}
3893 {%
3894 \pgfuseshading{beamer@treeshade}%
3895 \vskip-0.05ex%
3896 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3897 \begin{pgfpicture}
3898 \begin{pgfscope}%
3899 \pgfsetfillcolor{subsection in head/foot.bg}%
3900 \pgfpathrectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3901 \pgfsetfading{beamer@belowframetitlemask}{}%
3902 \pgfusepath{fill}%
3903 \end{pgfscope}%
3904 \end{pgfpicture}%
3905 \end{beamercolorbox}%
3906 \vskip-9.15ex%
3907 \if@RTL
3908 \begin{beamercolorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3909 rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3910 \else
3911 \begin{beamercolorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3912 leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3913 \fi
3914 \usebeamerfont{title in head/foot}\insertshorttitle
3915 \end{beamercolorbox}
3916 \if@RTL
3917 \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3918 rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3919 \else
3920 \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3921 leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3922 \fi
3923 \usebeamerfont{section in head/foot}%
3924 \hskip6pt\insertsectionhead
3925 \end{beamercolorbox}
3926 \if@RTL
3927 \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3928 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}

```




```

3929 \else
3930 \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3931     leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3932 \fi
3933 \usebeamerfont{subsection in head/foot}%
3934 \hskip12pt\insertsubsectionhead
3935 \end{beamercolorbox}
3936 \vskip-0.4ex%
3937 }
3938
3939 \defbeamertemplate*{frametitle}{smoothtree theme}
3940 {%
3941 \nointerlineskip%
3942 \vskip-0.05ex%
3943 \usebeamerfont{headline}%
3944 \begin{beamercolorbox}[wd=\paperwidth,ht=0.85ex,dp=0ex]{empty}
3945 \pgfuses shading{beamer@aboveframetitle}%
3946 \end{beamercolorbox}
3947 \nointerlineskip%
3948 \if@RTL
3949 \begin{beamercolorbox}[wd=\paperwidth,rightskip=.935cm,leftskip=.3cm plus1fil]{frametitle}
3950 \else
3951 \begin{beamercolorbox}[wd=\paperwidth,leftskip=.935cm,rightskip=.3cm plus1fil]{frametitle}
3952 \fi
3953 \vskip-1.2ex%
3954 \usebeamerfont*{frametitle}\strut\insertframetitle%
3955 \ifx\insertframesubtitle\@empty%
3956 \strut\par%
3957 \else
3958 \par{\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\strut\insertframesubtitle}%
3959 \fi%%
3960 \usebeamerfont{headline}%
3961 \end{beamercolorbox}%
3962 \nointerlineskip
3963 \vskip-0.2ex%
3964 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3965 \begin{pgfpicture}
3966 \begin{pgfscope}%
3967 \pgfsetfillcolor{frametitle.bg}%
3968 \pgfpathrectangle{\pgfpoint{- .5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3969 \pgfsetfading{beamer@belowframetitlemask}{}%
3970 \pgfusepath{fill}%
3971 \end{pgfscope}%
3972 \end{pgfpicture}%
3973 \end{beamercolorbox}%
3974 }
3975
3976
3977 \AtBeginDocument{%
3978 \setbeamertemplate{frametitle}[smoothtree theme]%
3979 }
3980
3981

```



42 File beamerouterthemetree-xetex-bidi.def

```
3982 \ProvidesFile{beamerouterthemetree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beam
3983 \bidi@csundef{beamer@tmpop@headline@tree theme}
3984
3985 \defbeamer-template*{headline}{tree theme}
3986 {%
3987   \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{upper separation line head}
3988   \end{beamercolorbox}
3989   \if@RTL
3990   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3991     rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3992   \else
3993   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3994     leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3995   \fi
3996   \usebeamerfont{title in head/foot}\insertshorttitle
3997   \end{beamercolorbox}
3998   \if@RTL
3999   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4000     rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
4001   \else
4002   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4003     leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
4004   \fi
4005   \usebeamerfont{section in head/foot}%
4006   \ifbeamer@tree@showhooks
4007     \setbox\beamer@tempbox=\hbox{\insertsectionhead}%
4008     \ifdim\wd\beamer@tempbox>1pt%
4009       \hskip2pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height0.
4010       \hskip1pt}%
4011     \fi%
4012   \else%
4013     \hskip6pt%
4014   \fi%
4015   \insertsectionhead
4016   \end{beamercolorbox}
4017   \if@RTL
4018   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4019     rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
4020   \else
4021   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4022     leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
4023   \fi
4024   \usebeamerfont{subsection in head/foot}%
4025   \ifbeamer@tree@showhooks
4026     \setbox\beamer@tempbox=\hbox{\insertsubsectionhead}%
4027     \ifdim\wd\beamer@tempbox>1pt%
4028       \hskip9.4pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height
4029       \hskip1pt}%
4030     \fi%
4031   \else%
4032     \hskip12pt%
4033   \fi%
```



```

4034     \insertsubsectionhead
4035     \end{beamercolorbox}
4036     \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{lower separation line head}
4037     \end{beamercolorbox}
4038 }
4039
4040

```

43 File beamerthemeHannover-xetex-bidi.def

```

4041 \ProvidesFile{beamerthemeHannover-xetex-bidi.def}[2022/06/07 v0.1 bidi adaptations for beamer]
4042 \AtBeginDocument{%
4043   \if@RTLmain
4044     \setbeamertemplate{frametitle}[default][left]%
4045   \else
4046     \setbeamertemplate{frametitle}[default][right]%
4047   \fi
4048 }
4049
4050

```

44 File beamerthemeSingapore-xetex-bidi.def

```

4051 \ProvidesFile{beamerthemeSingapore-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beamer]
4052 \addtoheadtemplate{\pgfuses shading{beamer@headfade}\vskip-1.25cm}{%}
4053
4054 \beamertemplatedotitem
4055
4056 \AtBeginDocument{%
4057   \setbeamertemplate{frametitle}[default][center]%
4058 }
4059
4060

```

45 File bidi.sty

```

4061 \NeedsTeXFormat{LaTeX2e}
4062 \def\bididate{2026/01/01}
4063 \def\bidi@version{26.01.01}
4064 \def\bidi@releasename{Iran}
4065 \newcommand*{\bidi@releasename}{\bidi@releasename}
4066 \ProvidesPackage{bidi}[\bididate\space v\bidi@version\space (Release \bidi@releasename)\space]
4067 Bidirectional typesetting in plain TeX and LaTeX]
4068 \newif\if@bidi@banner
4069 \newif\if@bidi@pdfbanner
4070 \newif\iffootdir@debug
4071 \newif\if@extrafootnotefeatures
4072 \newif\if@nonlatin
4073 \newif\if@bidi@pdfm@mark
4074 \ExplSyntaxOn
4075 \clist_new:N \l__bidi_counter_clist
4076 \msg_new:nnn {bidi} {cannot-use-engine}
4077 {
4078   Oops!~can~not~use~\c_sys_engine_str.\\\

```



```

4079   The~bidi~package~requires~XeTeX.
4080 }
4081 \sys_if_engine_xetex:F
4082 {
4083   \msg_fatal:nn {bidi} {cannot-use-engine}
4084 }
4085
4086 \keys_define:nn { bidi }
4087 {
4088   banner .choice: ,
4089   banner / on .code:n = \@bidi@bannertrue ,
4090   banner / off .code:n = \@bidi@bannerfalse ,
4091   banner .default:n = on
4092 }
4093 \keys_define:nn { bidi }
4094 {
4095   PDFbanner .choice: ,
4096   PDFbanner / on .code:n = \@bidi@pdfbannertrue ,
4097   PDFbanner / off .code:n = \@bidi@pdfbannerfalse ,
4098   PDFbanner .default:n = on
4099 }
4100 \keys_define:nn { bidi }
4101 {
4102   RTLdocument .choice: ,
4103   RTLdocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4104   RTLdocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4105   RTLdocument .default:n = on
4106 }
4107 \keys_define:nn { bidi }
4108 {
4109   rldocument .choice: ,
4110   rldocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4111   rldocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4112   rldocument .default:n = on
4113 }
4114 \keys_define:nn { bidi }
4115 {
4116   documentdirection .choice: ,
4117   documentdirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtrue} ,
4118   documentdirection / lefttoright .code:n = \AtEndOfPackage{\@RTLfalse}
4119 }
4120 \keys_define:nn { bidi }
4121 {
4122   tabledirection .choice: ,
4123   tabledirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtabtrue} ,
4124   tabledirection / lefttoright .code:n = \AtEndOfPackage{\@RTLtabfalse}
4125 }
4126 \keys_define:nn { bidi }
4127 {
4128   footnotedirection .choice: ,
4129   footnotedirection / righttoleft .code:n = \AtEndOfPackage{\@RTL@footnotetrue} ,
4130   footnotedirection / lefttoright .code:n = \AtEndOfPackage{\@RTL@footnotefalse}
4131 }
4132 \keys_define:nn { bidi }

```



```

4133 {
4134     debugfootnotedirection .choice: ,
4135     debugfootnotedirection / on .code:n = \footdir@debugtrue ,
4136     debugfootnotedirection / off .code:n = \footdir@debugfalse ,
4137     debugfootnotedirection .default:n = on
4138 }
4139 \keys_define:nn { bidi }
4140 {
4141     footnoterule .choice: ,
4142     footnoterule / automatic .code:n = \AtEndOfPackage{\autofootnoterule} ,
4143     footnoterule / left .code:n = \AtEndOfPackage{\leftfootnoterule} ,
4144     footnoterule / right .code:n = \AtEndOfPackage{\rightfootnoterule} ,
4145     footnoterule / split .code:n = \AtEndOfPackage{\SplitFootnoteRule} ,
4146     footnoterule / textwidth .code:n = \AtEndOfPackage{\textwidthfootnoterule}
4147 }
4148 \keys_define:nn { bidi }
4149 {
4150     extrafootnotefeatures .choice: ,
4151     extrafootnotefeatures / on .code:n = \@extrafootnotefeaturestrue ,
4152     extrafootnotefeatures / off .code:n = \@extrafootnotefeaturesfalse ,
4153     extrafootnotefeatures .default:n = on
4154 }
4155 \keys_define:nn { bidi }
4156 {
4157     script .choice: ,
4158     script / latin .code:n = \@nonlatinfalse ,
4159     script / nonlatin .code:n = \@nonlatintrue ,
4160     script .default:n = latin
4161 }
4162 \keys_define:nn { bidi }
4163 {
4164     DetectColumn .choice: ,
4165     DetectColumn / on .code:n =
4166         \def\bidi@firstcolumn@status@write{%
4167             \protected@write\@auxout{%
4168                 {\string\bidi@column@status
4169                     {1}}}
4170         \def\bidi@lastcolumn@status@write{%
4171             \protected@write\@auxout{%
4172                 {\string\bidi@column@status{2}}} ,
4173     DetectColumn / off .code:n =
4174         \let\bidi@firstcolumn@status@write\relax
4175         \let\bidi@lastcolumn@status@write\relax ,
4176     DetectColumn .default:n = on
4177 }
4178 \keys_define:nn { bidi }
4179 {
4180     logo .choice: ,
4181     logo / on .code:n = \AtEndOfPackage{\AtBeginDocument{\@bidi@inslogo}} ,
4182     logo / off .code:n = \AtEndOfPackage{\let\@bidi@logo@\empty \let\@bidi@inslogo@\empty}
4183     logo .default:n = on
4184 }
4185 \keys_define:nn { bidi }
4186 {

```



```

4187 pdfinfo .choice: ,
4188 pdfinfo / on .code:n = \@bidi@pdfm@marktrue ,
4189 pdfinfo / off .code:n = \@bidi@pdfm@markfalse ,
4190 pdfinfo .default:n = on
4191 }
4192 \keys_define:nn { bidi }
4193 {
4194   resetcounterperpage .code:n = \clist_set:Nx \l__bidi_counter_clist { #1 }
4195 }
4196 \keys_set:nn { bidi }
4197 {
4198   banner = on ,
4199   PDFbanner = on ,
4200   DetectColumn = off
4201 }
4202 }
4203 \ExplSyntaxOff
4204 \ProcessKeyOptions
4205 \edef\@bidi@info{*****~J%
4206 * ~J%
4207 * bidi package (Bidirectional typesetting with~J%
4208 * plain TeX and LaTeX formats in XeTeX and LuaTeX engines)~J%
4209 * ~J%
4210 * Description: A convenient interface for~J%
4211 * typesetting bidirectional texts in plain TeX~J%
4212 * and LaTeX. The package includes adaptations~J%
4213 * for use with many other commonly-used packages.~J%
4214 * ~J%
4215 * Copyright (c) 2007--2026 Vafa Khalighi~J%
4216 * Copyright (c) 2018--2020 bidi-tex GitHub organization~J%
4217 * ~J%
4218 * v\bidi@version\space (Release \bidi@releasename), \bididate~J%
4219 * ~J%
4220 * License: LaTeX Project Public License, version~J%
4221 * 1.3c or higher (your choice)~J%
4222 * ~J%
4223 * Location on CTAN: /macros/unicodetex/generic/bidi~J%
4224 * ~J%
4225 * Issue tracker: https://github.com/xepersian/bidi/issues~J%
4226 * ~J%
4227 * Primary author of bidi package: Vafa Khalighi.~J%
4228 * ~J%
4229 *****}
4230 \edef\bidi@everyjob{\the\everyjob}
4231 \if@bidi@banner
4232   \typeout{\@bidi@info}
4233   \everyjob{\bidi@everyjob\typeout{\@bidi@info}}
4234 \fi
4235 \newcommand*{\bidiversion}{\ensuremath\bidi@version}
4236 \RequirePackage{biditools}
4237 \RequirePackage{zref-abspage}
4238 \RequirePackage{auxhook}
4239 \RequirePackage{ltxcmds}
4240 \eqnewif{if@RTLmain}{\if@rlmain}

```



```

4241 \eqnewif{\if@RTL}{\if@rl}
4242 \newcommand*{\setlatin}{\@nonlatinfalse}
4243 \newcommand*{\setnonlatin}{\@nonlatintrue}
4244 \eqnewif{\if@RTLtab}{\if@tab@rl}
4245 \newif\if@hboxRconstruct
4246 \newif\if@bidi@pdfencrypt
4247 \newcommand*{\setRTLtable}{\@RTLtabtrue}
4248 \newcommand*{\setLTRtable}{\@RTLtabfalse}
4249 \newif\if@RTLMarginpar
4250 \newif\if@LTRmarginpar
4251 \newif\if@LTRbibitems
4252 \newif\if@RTLbibitems
4253 \eqnewif{\if@RTL@footnote}{\if@rl@footnote}
4254 \newif\if@bidi@list@minipage@parbox
4255 \newif\if@bidi@list@minipage@parbox@not@nob
4256 \newcommand*{\@bidi@pdfcreator}{%
4257   The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \@bididate
4258 }
4259 \newcommand*{\@bidi@pdfproducer}{%
4260   The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \@bididate
4261 }
4262 \newcommand*{\@bidi@pdfcustomproperties}{%
4263   This is the bidi package, Version \@bidi@version\space (Release \@bidi@releasename),
4264   Released January 1, 2026.
4265 }
4266 \newcommand*{\@bidi@beamer@ragged}{%
4267 \@RTLmainfalse
4268 \AtBeginDocument{%
4269   \if@RTLmain\else
4270     \if@RTL\@RTLmaintrue%
4271     \else\@RTLmainfalse%
4272     \fi%
4273   \fi%
4274 }
4275 \let\n@xt=\
4276 \bidi@newrobustcmd*{\LRE}{\protect\pLRE}%
4277 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4278 \bidi@newrobustcmd*{\RLE}{\protect\pRLE}
4279 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4280 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4281   \errmessage{Missing left brace has been substituted}\fi \bgroup}
4282 \newinsert\@bidi@copyins@
4283 \skip\@bidi@copyins@=12\p@
4284 \dimen\@bidi@copyins@=40pc
4285 \count\@bidi@copyins@=1000
4286 \newcommand*{\@bidi@inslogo@}{\insert\@bidi@copyins@{\@bidi@logo@}}
4287 \newcommand*{\@bidi@logo@hb@xt@columnwidth}{%
4288   \if@RTLmain
4289     \if@twocolumn
4290       \hboxR to \columnwidth
4291     \else
4292       \hboxR to \textwidth
4293     \fi
4294   \else

```



```

4295 \if@twocolumn
4296 \hboxL to \columnwidth
4297 \else
4298 \hboxL to \textwidth
4299 \fi
4300 \fi
4301 }
4302 \newcommand*{\@bidi@logo}[1]{%
4303 \toks@{%
4304 \setbox\z@\hbox{%
4305 \special{%
4306 pdf:image width 50pt height 50pt (#1)%
4307 }
4308 }%
4309 \dp\z@\z@
4310 \ht\z@=50pt
4311 \wd\z@=50pt
4312 \beginL
4313 \lower20pt\box\z@
4314 \endL
4315 }%
4316 \the\toks@
4317 }
4318 \newcount\bidi@typesethour
4319 \newcount\bidi@typesetminute
4320 \bidi@typesethour=\time
4321 \divide\bidi@typesethour 60
4322 \bidi@typesetminute=-\bidi@typesethour
4323 \multiply\bidi@typesetminute 60
4324 \advance\bidi@typesetminute \time
4325 \newcommand*{\TypesetHour}{\two@digits\bidi@typesethour}
4326 \newcommand*{\TypesetMinute}{\two@digits\bidi@typesetminute}
4327 \newcommand*{\TypesetTime}{\TypesetHour:\TypesetMinute}
4328 \newcommand*{\@bidi@logo@}{%
4329 \@bidi@logo@hb@xt@columnwidth
4330 {\hss\LRE{\bfseries Typeset {\today} at {\TypesetTime} by the \textsf{bidi}
4331 package\quad\@bidi@logo{bidi-logo.pdf}}}}
4332 \ExplSyntaxOn
4333 \keys_define:nn { bidi / pdfencrypt }
4334 {
4335 userpassword .code:n = \def\bidi@pdfencrypt@userpassword{#1} ,
4336 userpassword .default:n =
4337 }
4338 \keys_define:nn { bidi / pdfencrypt }
4339 {
4340 ownerpassword .code:n = \def\bidi@pdfencrypt@ownerpassword{#1} ,
4341 ownerpassword .default:n =
4342 }
4343 \keys_define:nn { bidi / pdfencrypt }
4344 {
4345 keylength .code:n = \def\bidi@pdfencrypt@keylength{#1} ,
4346 keylength .default:n = 128
4347 }
4348 \keys_define:nn { bidi / pdfencrypt }

```




```

4349 {
4350   permissionflags .code:n = \def\bidi@pdfencrypt@permissionflags{#1} ,
4351   permissionflags .default:n = 2052
4352 }
4353 \NewDocumentCommand \pdfencryptsetup {m} { \keys_set:nn { bidi / pdfencrypt } {#1} }
4354 \clist_if_empty:NF \l__bidi_counter_clist
4355 {
4356   \RequirePackage{bidi-perpage}
4357   \clist_map_inline:Nn \l__bidi_counter_clist
4358     {
4359       \ResetCounterPerPage{#1}
4360     }
4361   \clist_clear:N \l__bidi_counter_clist
4362 }
4363 \ExplSyntaxOff
4364 \@onlypreamble\pdfencryptsetup
4365 \input{latex-xetex-bidi.def}
4366
4367 \pdfencryptsetup{%
4368   userpassword,%
4369   ownerpassword,%
4370   keylength,%
4371   permissionflags%
4372 }
4373
4374 \if@extrafootnotefeatures
4375   \input{extrafootnotefeatures-xetex-bidi.def}
4376 \fi
4377 \newcount\bidi@digits
4378 \XeTeXinterchartokenstate=\@ne
4379 \newXeTeXintercharclass\bidi@digits@charclass
4380 \newXeTeXintercharclass\bidi@sepmark@charclass
4381 \XeTeXcharclass `\. \bidi@sepmark@charclass
4382 \XeTeXcharclass `\- \bidi@sepmark@charclass
4383 \bidi@digits=\0 \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4384 \bidi@digits=\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4385 \bidi@digits=\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4386 \XeTeXinterchartoks \bidi@sepmark@charclass \bidi@digits@charclass = {\DigitsDotDashInterCh
4387 \newcommand*{\DigitsDotDashInterCharToks}{\if@nonlatin\char"200F \fi}
4388 \bidi@AtEndPreamble{%
4389   \ifx\bidi@pdfencrypt@ownerpassword\bidi@empty
4390     \ifx\bidi@pdfencrypt@userpassword\bidi@empty
4391       \@bidi@pdfencryptfalse
4392     \else
4393       \@bidi@pdfencrypttrue
4394     \fi
4395   \else
4396     \@bidi@pdfencrypttrue
4397   \fi
4398   \if@bidi@pdfencrypt
4399     \special{pdf:encrypt
4400       userpw (\bidi@pdfencrypt@userpassword)
4401       ownerpw (\bidi@pdfencrypt@ownerpassword)
4402       length \bidi@pdfencrypt@keylength

```



```

4403     perm \bidi@pdfencrypt@permissionflags
4404 }%
4405 \fi
4406 }
4407 \if@bidi@pdfbanner
4408 \if@bidi@pdfm@mark
4409 \AtEndDocument{%
4410 \special{pdf:%
4411 docinfo<<%
4412 /Creator(\@bidi@pdfcreator)%
4413 /Producer(\@bidi@pdfproducer)%
4414 /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4415 \if@bidi@csdef{@xepersian@pdfcustomproperties}{%
4416 /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4417 }{}%
4418 >>%
4419 }%
4420 }
4421 \else
4422 \AtEndDocument{%
4423 \special{pdf:%
4424 docinfo<<%
4425 /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4426 \if@bidi@csdef{@xepersian@pdfcustomproperties}{%
4427 /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4428 }{}%
4429 >>%
4430 }%
4431 }
4432 \fi
4433 \else
4434 \if@bidi@pdfm@mark
4435 \AtEndDocument{%
4436 \special{pdf:%
4437 docinfo<<%
4438 /Creator(\@bidi@pdfcreator)%
4439 /Producer(\@bidi@pdfproducer)%
4440 >>%
4441 }%
4442 }
4443 \fi
4444 \fi

```

46 File bidi.tex

```

4445 \def\bidi@date{2026/01/01}
4446 \catcode`\@=11
4447 \def\bidi@version{26.01.01}
4448 \def\bidi@releasename{Iran}
4449 \def\bidi@releasename{\bidi@releasename}
4450 \let \protect \relax
4451 \newlinechar`\^^J
4452 \edef\@bidi@info{*****~^J%
4453 * ~^J%

```



```

4454 * bidi package (Bidirectional typesetting with^^J%
4455 * plain TeX and LaTeX formats in XeTeX and LuaTeX engines)^^J%
4456 * ^^J%
4457 * Description: A convenient interface for^^J%
4458 * typesetting bidirectional texts in plain TeX^^J%
4459 * and LaTeX. The package includes adaptations^^J%
4460 * for use with many other commonly-used packages.^^J%
4461 * ^^J%
4462 * Copyright (c) 2007--2026 Vafa Khalighi^^J%
4463 * Copyright (c) 2018--2020 bidi-tex GitHub organization^^J%
4464 * ^^J%
4465 * v\bidi@version\space (Release \bidi@releasename), \bididate^^J%
4466 * ^^J%
4467 * License: LaTeX Project Public License, version^^J%
4468 * 1.3c or higher (your choice)^^J%
4469 * ^^J%
4470 * Location on CTAN: /macros/unicodetex/generic/bidi^^J%
4471 * ^^J%
4472 * Issue tracker: https://github.com/xepersian/bidi/issues^^J%
4473 * ^^J%
4474 * Primary author of bidi package: Vafa Khalighi.^^J%
4475 * ^^J%
4476 *****}
4477 \edef\bidi@everyjob{\the\everyjob}
4478 \message{\@bidi@info}
4479 \everyjob{\bidi@everyjob\message{\@bidi@info}}
4480 \def\bidiversion{%
4481   \relax
4482   \ifmmode
4483     \bidi@version
4484   \else
4485     $\bidi@version$
4486   \fi
4487 }
4488 \input iftex.sty
4489 \RequireXeTeX
4490 \newif\ifbidi@pdfm@mark
4491 \newif\if@RTLmain
4492 \newif\if@RTL
4493 \newif\if@hboxRconstruct
4494 \newif\if@sentedir
4495 \newif\if@RTL@footnote
4496 \@RTLmainfalse
4497 \def\setRTLmain{%
4498   \if@RTLmain\else
4499     \if@RTL\@RTLmaintrue%
4500     \else\@RTLmainfalse%
4501     \fi%
4502   \fi%
4503 }
4504 \let\n@xt=\
4505 \protected\def\LRE{\protect\pLRE}%
4506 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4507 \protected\def\RLE{\protect\pRLE}

```



```

4508 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4509 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4510 \errmessage{Missing left brace has been substituted}\fi \bgroup}
4511 \newinsert\@bidi@copyins@
4512 \skip\@bidi@copyins@=12\p@
4513 \dimen\@bidi@copyins@=40pc
4514 \count\@bidi@copyins@=1000
4515 \def\@bidi@inslogo@{\insert\@bidi@copyins@{\@bidi@logo@}}
4516 \def\@bidi@logo@hb@xt@{%
4517 \if@RTLmain
4518 \hboxR to
4519 \else
4520 \hboxL to
4521 \fi
4522 }
4523 \def\@bidi@logo#1{%
4524 \toks@{%
4525 \setbox\z@\hbox{%
4526 \special{%
4527 pdf:image width 50pt height 50pt (#1)%
4528 }
4529 }%
4530 \dp\z@\z@
4531 \ht\z@=50pt
4532 \wd\z@=50pt
4533 \beginL
4534 \lower20pt\box\z@
4535 \endL
4536 }%
4537 \the\toks@
4538 }
4539 \def\today{\ifcase\month\or
4540 January\or February\or March\or April\or May\or June\or
4541 July\or August\or September\or October\or November\or December\fi
4542 \space\number\day, \number\year}
4543 \def\two@digits#1{\ifnum#1<10 0\fi\number#1}
4544 \newcount\@bidi@typesethour
4545 \newcount\@bidi@typesetminute
4546 \@bidi@typesethour=\time
4547 \divide\@bidi@typesethour 60
4548 \@bidi@typesetminute=-\@bidi@typesethour
4549 \multiply\@bidi@typesetminute 60
4550 \advance\@bidi@typesetminute \time
4551 \def\TypesetHour{\two@digits\@bidi@typesethour}
4552 \def\TypesetMinute{\two@digits\@bidi@typesetminute}
4553 \def\TypesetTime{\TypesetHour:\TypesetMinute}
4554 \def\@bidi@logo@{\@bidi@logo@hb@xt@\hsize{\hss\LRE{\bf Typeset {\today} at {\TypesetTime} by
4555 \def\bidilogo{\@bidi@inslogo@}
4556 \def\nobidilogo{\let\@bidi@logo@\empty \let\@bidi@inslogo@\empty}
4557 \def\@bidi@pdfcreator{%
4558 The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \bididate
4559 }
4560 \def\@bidi@pdfproducer{%
4561 The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \bididate

```



```

4562 }
4563 \def\@bidi@pdfcustomproperties{%
4564   This is the bidi package, Version \bidi@version\space (Release \bidi@releasename),
4565   Released January 1, 2026.
4566 }
4567 \def\bidi@pdfm@mark{%
4568   \special{pdf:
4569     docinfo<<%
4570     \if@bidi@pdfm@mark
4571       /Creator(\@bidi@pdfcreator)%
4572       /Producer(\@bidi@pdfproducer)%
4573     \fi
4574     /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4575     >>%
4576   }%
4577 }
4578 \def\bidipdfinfoon{\@bidi@pdfm@marktrue}
4579 \def\bidipdfinfooff{\@bidi@pdfm@markfalse}
4580 \input plain-xetex-bidi.def
4581 \outer\def\bye{\bidi@pdfm@mark\par\vfill\supereject\end}
4582 \catcode\@=12
4583 \bidipdfinfoon

```

47 File bidi2in1.sty

```

4584 \NeedsTeXFormat{LaTeX2e}
4585 \ProvidesPackage{bidi2in1}
4586 \pagestyle{plain}
4587 \newcount\evenpage
4588 \newcount\oddpge
4589 \twocolumn
4590 \def\@oddfoot{\evenpage=\thepage%
4591 \multiply\evenpage by 2%
4592 \oddpge=\the\evenpage%
4593 \advance\oddpge by -1%
4594 \hfil\the\evenpage\hfil\hfil\the\oddpge\hfil}%
4595 \def\@evenfoot{\evenpage=\thepage%
4596 \multiply\evenpage by 2%
4597 \oddpge=\the\evenpage%
4598 \advance\oddpge by -1%
4599 \hfil\the\oddpge\hfil\hfil\the\evenpage\hfil}%
4600 \textwidth 9.49in
4601 \textheight 6.7in
4602 \columnsep 0.9in
4603 \columnseprule 0.125pt
4604 \headheight 0cm
4605 \topmargin 0in
4606 \marginparwidth 0in
4607 \marginparsep 0in
4608 \hoffset 0.05in % Corrected
4609 \voffset -0.5in %top margin space is 1.0in by default
4610 \oddsidemargin 0in
4611 \evensidemargin 0in
4612 \headsep 0cm

```



```

4613 \topskip 0cm
4614 \parskip 0.15in %
4615 \headsep 0pt
4616 \special{papersize=11.69in,8.26in}
4617 \renewcommand\maketitle{\par
4618 \begingroup
4619 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
4620 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
4621 \long\def\@makefntext##1{\parindent 1em\noindent
4622 \hb@xt@1.8em{%
4623 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
4624 \@maketitle
4625 \@thanks
4626 \endgroup
4627 \setcounter{footnote}{0}%
4628 \global\let\thanks\relax
4629 \global\let\maketitle\relax
4630 \global\let\@maketitle\relax
4631 \global\let\@thanks\@empty
4632 \global\let\@author\@empty
4633 \global\let\@date\@empty
4634 \global\let\@title\@empty
4635 \global\let\title\relax
4636 \global\let\author\relax
4637 \global\let\date\relax
4638 \global\let\and\relax
4639 }

```

48 File bidicode.sty

```

4640 \NeedsTeXFormat{LaTeX2e}
4641 \ProvidesPackage{bidicode}
4642 \RequirePackage{xcolor}
4643 \RequirePackage{showexpl}
4644 \definecolor{hellgelb}{rgb}{1,1,0.85}
4645 \definecolor{colKeys}{rgb}{0.2,0.4,0.8}
4646 \definecolor{colCS}{rgb}{0.2,0.4,0.8}
4647 \definecolor{colIdentifier}{rgb}{0,0,0}
4648 \definecolor{colComments}{rgb}{1,0,0}
4649 \definecolor{colString}{rgb}{0,0.5,0}
4650 \lstset{%
4651     language=[LaTeX]TeX,%
4652     float=hbp,%
4653     basicstyle=\ttfamily\small,%
4654     identifierstyle=\color{colIdentifier},%
4655     keywordstyle=\color{colKeys},%
4656     texcsstyle=\color{colCS},%
4657     stringstyle=\color{colString},%
4658     commentstyle=\color{colComments},%
4659     backgroundcolor=\color{hellgelb},%
4660     columns=flexible,%
4661     tabsize=4,%
4662     extendedchars=true,%
4663     showspaces=false,%

```



```

4664 showstringspaces=false,%
4665 numbers=left,%
4666 numbersep=0.9em,%
4667 numberstyle=\tiny,%
4668 frame=single,%
4669 captionpos=b,%
4670 xleftmargin=1em,%
4671 breaklines=true,%
4672 breakautoindent=false,%
4673 breakindent=0pt,%
4674 escapeinside=**,%
4675 pos=r,%
4676 explpreset={%
4677     xleftmargin=1em,%
4678     columns=flexible,%
4679     language=[LaTeX]TeX%
4680 },%
4681 moretexcs={%
4682     bididate,%
4683     bidiversion,%
4684     deflatinfont,%
4685     defpersianfont,%
4686     ding,%
4687     endLTR,%
4688     endRTL,%
4689     false,%
4690     falsesymbol,%
4691     junicode,%
4692     lr,%
4693     LR,%
4694     LRE,%
4695     LTR,%
4696     maketitle,%
4697     Nastaliq,%
4698     newfontfamily,%
4699     Parsifont,%
4700     part,%
4701     RL,%
4702     RLE,%
4703     RTL,%
4704     RTLcases,%
4705     SepMark,%
4706     setLR,%
4707     setLTR,%
4708     setRL,%
4709     setRTL,%
4710     settextfont,%
4711     subsection,%
4712     subsubsection,%
4713     tableofcontents,%
4714     text,%
4715     theequation,%
4716     thesection,%
4717     true,%

```



```

4718      truesymbol,%
4719      XePersian,%
4720      xepersiandate,%
4721      xepersianversion%
4722  }%
4723 }
4724 \newcommand\HLON{%
4725   \gdef\lst@alloverstyle##1{%
4726     \fboxrule=Opt
4727     \fboxsep=Opt
4728     \fcolorbox{hellgelb}{hellgelb}{\bfseries\strut##1}%
4729   }}
4730 \newcommand\HLOFF{%
4731   \xdef\lst@alloverstyle##1{##1}%
4732 }
4733 \newcommand\Larg [1]{\normalfont\itshape#1\bigskip}
4734 \newcommand\Larga[1]{\normalfont\itshape#1\bigskip}
4735 \newcommand\Largb[1]{\normalfont\itshape#1\bigskip}
4736 \newcommand\Largs[1]{\normalfont\itshape#1\bigskip}
4737 \newcommand\Largr[1]{\normalfont\itshape#1\bigskip}
4738 \newcommand\LBEG[1]{\normalfont\itshape#1\bigskip}
4739 \newcommand\LEND[1]{\normalfont\itshape#1\bigskip}
4740
4741 \DeclareRobustCommand\bs{\normalfont\ttfamily\symbol{92}}
4742 \DeclareRobustCommand\lcb{\normalfont\ttfamily\char`{}}
4743 \DeclareRobustCommand\rcb{\normalfont\ttfamily\char`{}}
4744 \DeclareRobustCommand\lsb{\normalfont\ttfamily\char`{}}
4745 \DeclareRobustCommand\rsb{\normalfont\ttfamily\char`{}}
4746 \DeclareRobustCommand\lrb{\normalfont\ttfamily\char`{}}
4747 \DeclareRobustCommand\rrb{\normalfont\ttfamily\char`{}}
4748
4749 \def\Lcs#1{\nxLcs{#1}}
4750 \def\LcsStar#1{\nxLcs{#1}\OptArg*{}}
4751 \def\nxLcs#1{\texttt{\symbol{92}#1}}
4752
4753 \def\Coordx#1{\$x_{#1}}
4754 \def\Coordy#1{\$y_{#1}}
4755 \def\Coordz#1{\$z_{#1}}
4756 \def\Coord#1{\Coordx{#1},\kern 1pt\Coordy{#1}}
4757 \def\Coordn{\Coordx{n},\kern 1pt\Coordy{n}}
4758 \def\CoordIII#1{\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1}}
4759 \def\CAny{\Coordx{},\kern 1pt\Coordy{}}
4760 \def\CIIIAny{\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}}
4761 \def\coord#1{(\Coordx{#1},\kern 1pt\Coordy{#1})}
4762 \def\coordn{(\Coordx{n},\kern 1pt\Coordy{n})}
4763 \def\coordiii#1{(\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1})}
4764 \def\coordx#1{(\$x_{#1})}
4765 \def\coordy#1{(\$y_{#1})}
4766 \def\coordz#1{(\$z_{#1})}
4767 \def\cAny{(\Coordx{},\kern 1pt\Coordy{}}
4768 \def\ciiiiAny{(\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}}
4769
4770 \newsavebox{\boxdef}
4771 \newenvironment{BDef}

```




```

4772 {\begin{lrbox}\boxdef
4773      \def\arraystretch{1.0}
4774      \begin{tabular}{@{}l@{}l@{}l@{}}
4775  }
4776 {\end{tabular}\end{lrbox}
4777
4778 {\BCmd\fbbox{\usebox\boxdef}\endBCmd}
4779 \aftergroup\@afterindentfalse\aftergroup\@afterheading
4780 }
4781
4782 \newenvironment{BDef*}
4783 {\begin{lrbox}\boxdef
4784      \def\arraystretch{1.0}
4785      \begin{tabular}{@{}l@{}l@{}l@{}}
4786  }
4787 {\end{tabular}\end{lrbox}
4788 {\begin{BCmd*}\fbbox{\usebox\boxdef}\end{BCmd*}}
4789 \aftergroup\@afterindentfalse\aftergroup\@afterheading
4790 }
4791 \newenvironment{BCmd*}{
4792 \beginparpenalty-\@lowpenalty
4793 \topsep\BDefaboveskip
4794 \fbboxsep3pt
4795 \flushleft}
4796 {\@endparpenalty\@M
4797 \topsepadd\BDefbelowskip
4798 \endflushleft}
4799
4800 \newenvironment{BCmd*}{
4801 \beginparpenalty\@M
4802 \topsep\BDefinlineskip
4803 \fbboxsep3pt
4804 \flushleft}
4805 {\@endparpenalty5000
4806 \endflushleft}
4807
4808 \newskip\BDefaboveskip
4809 \newskip\BDefbelowskip
4810 \newskip\BDefinlineskip
4811 \setlength\BDefaboveskip{10pt plus 4pt}
4812 \setlength\BDefbelowskip{6pt}
4813 \setlength\BDefinlineskip{6pt}
4814
4815 \def\OptArgs{\colorbox{black!20}{\texttt{[Options]}}\kern1pt}
4816 \def\OptArg{\@ifnextchar*\OptArgi{\OptArgii*}}
4817 \def\OptArgi*#1{\colorbox{black!20}{\texttt{#1}}\kern1pt}
4818 \def\OptArgii*#1{\colorbox{black!20}{\texttt{[#1]}}\kern1pt}

```

49 File bidiftnxtra.sty

```

4819 \NeedsTeXFormat{LaTeX2e}
4820 \ProvidesPackage{bidiftnxtra}
4821 \newtoks\bidip@ftn
4822 \let\FN@sffootnote\footnote

```



```

4823 \let\FN@sff@LTRfootnote\LTRfootnote
4824 \let\FN@sff@RTLfootnote\RTLfootnote
4825 \def\footnote{\ifx\protect\@typeset@protect
4826   \expandafter\FN@sff@footnote
4827   \else
4828     \expandafter\FN@sff@gobble@opt
4829   \fi
4830 }
4831 \def\LTRfootnote{\ifx\protect\@typeset@protect
4832   \expandafter\FN@sff@LTRfootnote
4833   \else
4834     \expandafter\FN@sff@gobble@opt
4835   \fi
4836 }
4837 \def\RTLfootnote{\ifx\protect\@typeset@protect
4838   \expandafter\FN@sff@RTLfootnote
4839   \else
4840     \expandafter\FN@sff@gobble@opt
4841   \fi
4842 }
4843 \edef\FN@sff@gobble@opt{\noexpand\protect
4844   \expandafter\noexpand\csname FN@sff@gobble@opt \endcsname}
4845 \expandafter\def\csname FN@sff@gobble@opt \endcsname{%
4846   \@ifnextchar[%]
4847     \FN@sff@gobble@twobrace
4848     \@gobble
4849 }
4850 \def\FN@sff@gobble@twobrace[#1]#2{}
4851 \let\FN@sff@footnotemark\footnotemark
4852 \def\footnotemark{\ifx\protect\@typeset@protect
4853   \expandafter\FN@sff@footnotemark
4854   \else
4855     \expandafter\FN@sff@gobble@optonly
4856   \fi
4857 }
4858 \edef\FN@sff@gobble@optonly{\noexpand\protect
4859   \expandafter\noexpand\csname FN@sff@gobble@optonly \endcsname}
4860 \expandafter\def\csname FN@sff@gobble@optonly \endcsname{%
4861   \@ifnextchar[%]
4862     \FN@sff@gobble@brace
4863     {}%
4864 }
4865 \def\FN@sff@gobble@brace[#1]{}
4866 \def\@tabular{%
4867   \leavevmode \hbox \bgroup
4868   \let\@footnotetext\@p@ftntext
4869   \let\@LTRfootnotetext\@p@LTRftntext
4870   \let\@RTLfootnotetext\@p@RTLftntext
4871   \let\@xfootnotenext\@p@xftntext
4872   \let\@xfootnote\@p@xfootnote
4873   \let\@xLTRfootnotenext\@p@xLTRftntext
4874   \let\@xLTRfootnote\@p@xLTRfootnote
4875   \let\@xRTLfootnotenext\@p@xRTLftntext
4876   \let\@xRTLfootnote\@p@xRTLfootnote

```



```

4877 \if@RTLtab\beginR \fi
4878 $\let\@acol\@tabacol
4879 \let\@classz\@tabclassz
4880 \let\@classiv\@tabclassiv \let\@tabularcr\@tabarray}
4881 \def\endtabular{\crrc\egroup\if@RTLtab\egroup\endR\egroup\fi
4882 \egroup $\if@RTLtab\endR\fi\egroup
4883 \ifx\@capytype\@undefined
4884 \global\bidip@p@ftn\expandafter{\expandafter}\the\bidip@p@ftn\fi}
4885 \long\def\bidip@p@ftntext#1{%
4886 \edef\@tempy{\the\bidip@p@ftn\noexpand\footnotetext[\the\csname c@\mpfn\endcsname]}%
4887 \global\bidip@p@ftn\expandafter{\@tempy{#1}}}%
4888 \long\def\bidip@p@LTRftntext#1{%
4889 \edef\@tempyi{\the\bidip@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\mpfn\endcsname]}%
4890 \global\bidip@p@ftn\expandafter{\@tempyi{#1}}}%
4891 \long\def\bidip@p@RTLftntext#1{%
4892 \edef\@tempyii{\the\bidip@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\mpfn\endcsname]}%
4893 \global\bidip@p@ftn\expandafter{\@tempyii{#1}}}%
4894
4895
4896 \long\def\bidip@p@xftntext[#1]#2{%
4897 \global\bidip@p@ftn\expandafter{\the\bidip@p@ftn\footnotetext[#1]{#2}}}
4898
4899 \long\def\bidip@p@xLTRftntext[#1]#2{%
4900 \global\bidip@p@ftn\expandafter{\the\bidip@p@ftn\LTRfootnotetext[#1]{#2}}}
4901
4902 \long\def\bidip@p@xRTLftntext[#1]#2{%
4903 \global\bidip@p@ftn\expandafter{\the\bidip@p@ftn\RTLfootnotetext[#1]{#2}}}
4904
4905
4906 \def\bidip@p@xfootnote[#1]{%
4907 \begingroup
4908 \csname c@\mpfn\endcsname #1\relax
4909 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4910 \endgroup
4911 \@footnotemark\bidip@p@xftntext[#1]}
4912
4913
4914 \def\bidip@p@xLTRfootnote[#1]{%
4915 \begingroup
4916 \csname c@\mpfn\endcsname #1\relax
4917 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4918 \endgroup
4919 \@footnotemark\bidip@p@xLTRftntext[#1]}
4920
4921
4922 \def\bidip@p@xRTLfootnote[#1]{%
4923 \begingroup
4924 \csname c@\mpfn\endcsname #1\relax
4925 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4926 \endgroup
4927 \@footnotemark\bidip@p@xRTLftntext[#1]}
4928
4929 \def\@xfloat #1[#2]{%
4930 \nodocument

```



```

4931 \def \@capttype {#1}%
4932 \def \@fps {#2}%
4933 \@onelevel@sanitize \@fps
4934 \def \reserved@a {!}%
4935 \ifx \reserved@a \fps
4936   \@fpsadddefault
4937 \else
4938   \ifx \@fps \@empty
4939     \@fpsadddefault
4940   \fi
4941 \fi
4942 \ifhmode
4943   \@bsphack
4944   \@floatpenalty -\@Mii
4945 \else
4946   \@floatpenalty-\@Miii
4947 \fi
4948 \ifinner
4949   \@parmoderr\@floatpenalty\z@
4950 \else
4951   \@next\@currbox\@freelist
4952   {%
4953     \@tempcnta \sixt@@n
4954     \expandafter \@tfor \expandafter \reserved@a
4955       \expandafter :\expandafter =\@fps
4956     \do
4957     {%
4958       \if \reserved@a h%
4959         \ifodd \@tempcnta
4960       \else
4961         \advance \@tempcnta \@ne
4962       \fi
4963     \fi
4964     \if \reserved@a t%
4965       \@setfpsbit \tw@
4966     \fi
4967     \if \reserved@a b%
4968       \@setfpsbit 4%
4969     \fi
4970     \if \reserved@a p%
4971       \@setfpsbit 8%
4972     \fi
4973     \if \reserved@a !%
4974       \ifnum \@tempcnta>15
4975         \advance\@tempcnta -\sixt@@n\relax
4976       \fi
4977     \fi
4978   }%
4979   \@tempcntb \csname ftype@\@capttype \endcsname
4980   \multiply \@tempcntb \xxxii
4981   \advance \@tempcnta \@tempcntb
4982   \global \count\@currbox \@tempcnta
4983   }%
4984   \@fltovf

```



```

4985 \fi
4986 \global \setbox\@currbox
4987 \color@vbox
4988 \normalcolor
4989 \vbox \bgroup
4990 \let\@footnotetext\@bidi@p@ftntext
4991 \let\@LTRfootnotetext\@bidi@p@LTRftntext
4992 \let\@RTLfootnotetext\@bidi@p@RTLftntext
4993 \let\@xfootnotenext\@bidi@p@xftntext
4994 \let\@xfootnote\@bidi@p@xfootnote
4995 \let\@xLTRfootnotenext\@bidi@p@xLTRftntext
4996 \let\@xLTRfootnote\@bidi@p@xLTRfootnote
4997 \let\@xRTLfootnotenext\@bidi@p@xRTLftntext
4998 \let\@xRTLfootnote\@bidi@p@xRTLfootnote
4999 \hsize\columnwidth
5000 \@parboxrestore
5001 \@floatboxreset
5002 }
5003 \def \@endfloatbox{%
5004 \par\vskip\z@skip %% \par\vskip\z@ added 15 Dec 87
5005 \@minipagefalse
5006 \outer@nobreak
5007 \egroup %% end of vbox
5008 \global\@bidi@p@ftn\expandafter{\expandafter}\the\@bidi@p@ftn
5009 \color@endbox
5010 }

```

50 File bidimoderncv.cls

```

5011 \NeedsTeXFormat{LaTeX2e}
5012 \ProvidesClass{bidimoderncv}
5013 \newif\if@DEBUG\@DEBUGfalse
5014 \DeclareOption{a4paper}{
5015 \setlength\paperheight{297mm}
5016 \setlength\paperwidth{210mm}}
5017 \DeclareOption{a5paper}{
5018 \setlength\paperheight{210mm}
5019 \setlength\paperwidth{148mm}}
5020 \DeclareOption{b5paper}{
5021 \setlength\paperheight{250mm}
5022 \setlength\paperwidth{176mm}}
5023 \DeclareOption{letterpaper}{
5024 \setlength\paperheight{11in}
5025 \setlength\paperwidth{8.5in}}
5026 \DeclareOption{legalpaper}{
5027 \setlength\paperheight{14in}
5028 \setlength\paperwidth{8.5in}}
5029 \DeclareOption{executivepaper}{
5030 \setlength\paperheight{10.5in}
5031 \setlength\paperwidth{7.25in}}
5032 \DeclareOption{landscape}{
5033 \setlength\@tempdima{\paperheight}
5034 \setlength\paperheight{\paperwidth}
5035 \setlength\paperwidth{\@tempdima}}

```



```

5036 \newcommand\@ptsize{}
5037 \DeclareOption{10pt}{\renewcommand\@ptsize{0}}
5038 \DeclareOption{11pt}{\renewcommand\@ptsize{1}}
5039 \DeclareOption{12pt}{\renewcommand\@ptsize{2}}
5040 \DeclareOption{draft}{\setlength\overfullrule{5pt}}
5041 \DeclareOption{final}{\setlength\overfullrule{0pt}}
5042 \newif\if@colour\@colourtrue
5043 \DeclareOption{nocolour}{\@colourfalse}
5044 \ExecuteOptions{a4paper,11pt,colour,final}
5045 \ProcessOptions\relax
5046 \input{size1\@ptsize.clo}
5047 \RequirePackage{color}
5048 \RequirePackage{graphicx}
5049 \RequirePackage{ifthen}
5050 \RequirePackage{marvosym}
5051 \addtolength{\oddsidemargin}{-54pt}
5052 \addtolength{\textwidth}{109pt}
5053 \addtolength{\topmargin}{-70pt}
5054 \addtolength{\textheight}{122pt}
5055 \addtolength{\marginparsep}{-5pt}
5056 \addtolength{\marginparwidth}{-10pt}
5057 \RequirePackage{url}
5058 \RequirePackage{hyperref}
5059 \hypersetup{%
5060   breaklinks,
5061   baseurl      = http://,%
5062   pdfborder    = 0 0 0,%
5063   pdfpagemode  = UseNone,%
5064   pdfstartpage = 1}
5065 \AtEndOfClass{%
5066   \AtBeginDocument{%
5067     \hypersetup{%
5068       pdfauthor      = \@firstname~\@familyname,%
5069       pdftitle       = \@title,%
5070       pdfsubject     = \@firstname~\@familyname,%
5071       pdfkeywords    = \@resumename~\@firstname~\@familyname}}}
5072 \urlstyle{tt}
5073 \RequirePackage{fancyhdr}
5074 \fancypagestyle{plain}{%
5075   \renewcommand{\headrulewidth}{0pt}
5076   \renewcommand{\footrulewidth}{0pt}
5077   \fancyhf{}}
5078 \pagestyle{plain}
5079 \setlength\lineskip{1\p@}
5080 \setlength\normallineskip{1\p@}
5081 \renewcommand\baselinestretch{}
5082 \setlength{\parindent}{0pt}
5083 \setlength{\parskip}{0pt}
5084 \setlength\columnsep{10\p@}
5085 \setlength\columnseprule{0\p@}
5086 \pagestyle{empty}
5087 \pagenumbering{arabic}
5088 \raggedbottom
5089 \onecolumn

```



```

5090 \providecommand*{\listitemsymbol}{\textbullet}
5091 \providecommand*{\addresssymbol}{}
5092 \providecommand*{\mobilesymbol}{\Mobilefone}
5093 \providecommand*{\phonesymbol}{\Telefon}
5094 \providecommand*{\faxsymbol}{\FAX}
5095 \providecommand*{\emailsymbol}{\Letter}
5096 \definecolor{firstnamecolor}{rgb}{0,0,0}
5097 \def\firstnamecolour#1{\gdef\@firstnamecolour{\addfontfeature{Color=#1}}}
5098 \def\familynamecolour#1{\gdef\@familynamecolour{\addfontfeature{Color=#1}}}
5099 \def\titlecolour#1{\gdef\@titlecolour{\addfontfeature{Color=#1}}}
5100 \def\addresscolour#1{\gdef\@addresscolour{\addfontfeature{Color=#1}}}
5101 \def\quotecolour#1{\gdef\@quotecolour{\addfontfeature{Color=#1}}}
5102 \def\sectiontitlecolour#1{\gdef\@sectiontitlecolour{\addfontfeature{Color=#1}}}
5103 \definecolor{sectionrectanglecolor}{rgb}{0,0,0}
5104 \def\subsectioncolour#1{\gdef\@subsectioncolour{\addfontfeature{Color=#1}}}
5105 \def\hintcolour#1{\gdef\@hintcolour{\addfontfeature{Color=#1}}}
5106 \providecommand*{\firstnamefont}{}
5107 \providecommand*{\familynamefont}{}
5108 \providecommand*{\titlefont}{}
5109 \providecommand*{\addressfont}{}
5110 \providecommand*{\quoteftfont}{}
5111 \providecommand*{\sectionfont}{}
5112 \providecommand*{\subsectionfont}{}
5113 \providecommand*{\hintfont}{\small}
5114 \providecommand*{\firstnamestyle}[1]{\{\@firstnamefont\@firstnamecolour#1}}
5115 \providecommand*{\familynamestyle}[1]{\{\@familynamefont\@familynamecolour#1}}
5116 \providecommand*{\titlestyle}[1]{\{\@titlefont\@titlecolour#1}}
5117 \providecommand*{\addresstyle}[1]{\{\@addressfont\@addresscolour#1}}
5118 \providecommand*{\quotestyle}[1]{\{\@quoteftfont\@quotecolour#1}}
5119 \providecommand*{\sectionstyle}[1]{\{\@sectionfont\@sectiontitlecolour#1}}
5120 \providecommand*{\subsectionstyle}[1]{\{\@subsectionfont\@subsectioncolour#1}}
5121 \providecommand*{\hintstyle}[1]{\{\@hintfont\@hintcolour#1}}
5122 \newcommand*{\cvtheme}[2]{}
5123 \def\@cvtheme{#2}
5124 \def\@cvthemeoptions{#1}
5125 \cvtheme{bidi-casual}
5126 \AtBeginDocument{\RequirePackage[\@cvthemeoptions]{cvtheme\@cvtheme}}
5127 \newcommand*{\resumename}[1]{\def\@resumename{#1}}
5128 \newcommand*{\firstname}[1]{\def\@firstname{#1}}
5129 \newcommand*{\familyname}[1]{\def\@familyname{#1}}
5130 \renewcommand*{\title}[1]{\def\@title{#1}}
5131 \newcommand*{\address}[1]{\def\@address{#1}}
5132 \newcommand*{\mobile}[1]{\def\@mobile{#1}}
5133 \newcommand*{\phone}[1]{\def\@phone{#1}}
5134 \renewcommand*{\fax}[1]{\def\@fax{#1}}
5135 \newcommand*{\email}[1]{\def\@email{#1}}
5136 \newcommand*{\extrainfo}[1]{\def\@extrainfo{#1}}
5137 \def\@photowidth{0pt}
5138 \newcommand*{\photo}[2][64pt]{\def\@photowidth{#1}\def\@photo{#2}}
5139 \newcommand*{\quote}[1]{\def\@quote{#1}}
5140 \newlength{\quotewidth}
5141 \newlength{\hintscolumnwidth}
5142 \newlength{\separatorcolumnwidth}
5143 \setlength{\separatorcolumnwidth}{0.025\textwidth}

```



```

5144 \newlength{\maincolumnwidth}
5145 \newlength{\doubleitemmaincolumnwidth}
5146 \newlength{\listitemsymbolwidth}
5147 \settowidth{\listitemsymbolwidth}{\listitemsymbol{}}~}
5148 \newlength{\listitemmaincolumnwidth}
5149 \newlength{\listdoubleitemmaincolumnwidth}
5150 \newcommand*{\recomputethemelengths}{%
5151 \newcommand*{\recomputelengths}{%
5152 \setlength{\quotewidth}{0.65\textwidth}%
5153 \setlength{\maincolumnwidth}{\textwidth}%
5154 \addtolength{\maincolumnwidth}{-\separatorcolumnwidth}%
5155 \addtolength{\maincolumnwidth}{-\hintscolumnwidth}%
5156 \setlength{\listitemmaincolumnwidth}{\maincolumnwidth}%
5157 \addtolength{\listitemmaincolumnwidth}{-\listitemsymbolwidth}%
5158 \setlength{\doubleitemmaincolumnwidth}{\maincolumnwidth}%
5159 \addtolength{\doubleitemmaincolumnwidth}{-\hintscolumnwidth}%
5160 \addtolength{\doubleitemmaincolumnwidth}{-\separatorcolumnwidth}%
5161 \setlength{\doubleitemmaincolumnwidth}{0.5\doubleitemmaincolumnwidth}%
5162 \setlength{\listdoubleitemmaincolumnwidth}{\maincolumnwidth}%
5163 \addtolength{\listdoubleitemmaincolumnwidth}{-\listitemsymbolwidth}%
5164 \setlength{\listdoubleitemmaincolumnwidth}{0.475\listdoubleitemmaincolumnwidth}%
5165 \renewcommand{\headwidth}{\textwidth}%
5166 \recomputethemelengths}
5167 \setlength{\hintscolumnwidth}{0.15\textwidth}
5168 \recomputelengths
5169 \title{}
5170 \renewcommand*{\maketitle}{}
5171 \newcommand*{\section}[1]{%
5172 \vspace*{2.5ex \@plus 1ex \@minus .2ex}%
5173 \phantomsection}%
5174 \addcontentsline{toc}{part}{#1}%
5175 \parbox[m]{\hintscolumnwidth}{\bidi@raggedleft\hintfont{\leavevmode\color{sectionrectangle}
5176 \hspace{\separatorcolumnwidth}%
5177 \parbox[m]{\maincolumnwidth}{\sectionstyle{#1}}\v[1ex]}
5178 \newcommand*{\subsection}[1]{%
5179 \cvline[0.45em]{\subsectionstyle{#1}}
5180 \newcommand*{\cvline}[3][.25em]{%
5181 \begin{tabular}{@{}p{\hintscolumnwidth}@{\hspace{\separatorcolumnwidth}}p{\maincolumnwidth}
5182 \bidi@raggedleft\hintfont{#2} &{#3}%
5183 \end{tabular}}\v[1ex]}
5184 \newcommand*{\cvdoubleitem}[4]{%
5185 \cvline{#1}{\begin{minipage}[t]{\doubleitemmaincolumnwidth}#2\end{minipage}}%
5186 \hfill%
5187 \begin{minipage}[t]{\hintscolumnwidth}\bidi@raggedleft\hintfont{#3}\end{minipage}\hspace*{\
5188 \newcommand*{\cvlistitem}[2][\listitemsymbol]{%
5189 \cvline[0pt]{\begin{minipage}[t]{\listitemmaincolumnwidth}#2\end{minipage}}
5190 \newcommand*{\cvlistdoubleitem}[3][\listitemsymbol]{%
5191 \cvline[0pt]{\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#2\end{minipage}}%
5192 \hfill%
5193 \ifthenelse{\equal{#3}{}}{
5194 {}%
5195 {#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#3\end{minipage}}}}
5196 \newcommand*{\cventry}[6]{%
5197 \cvline{#1}{%

```




```

5198     {\bfseries#2}%
5199     \ifx#3\else{, {\slshape#3}}\fi%
5200     \ifx#4\else{, #4}\fi%
5201     \ifx#5\else{, #5}\fi%
5202     .%
5203     \ifx#6\else{\newline{}\begin{minipage}[t]{\linewidth}\small#6\end{minipage}}\fi
5204     }%
5205 \newcommand*{\cvlanguage}[3]{%
5206   \cvline{#1}{\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#2}\end{minipage}\hfill\begin{minipage}[t]{.775\maincolumnwidth}\textbf{#3}\end{minipage}}
5207 \newcommand*{\cvcomputer}[4]{%
5208   \cvdoubleitem{#1}{\small#2}{#3}{\small#4}}
5209 \newcommand*{\link}[2][{}]{%
5210   \ifthenelse{\equal{#1}{}}{%
5211     {\href{#2}{#2}}%
5212     {\href{#2}{#1}}}
5213 \newcommand*{\httplink}[2][{}]{%
5214   \ifthenelse{\equal{#1}{}}{%
5215     {\href{http://#2}{#2}}%
5216     {\href{http://#2}{#1}}}
5217 \newcommand*{\emailink}[2][{}]{%
5218   \ifthenelse{\equal{#1}{}}{%
5219     {\href{mailto:#2}{#2}}%
5220     {\href{mailto:#2}{#1}}}
5221 \newif\if@displaypagenumbers\@displaypagenumberstrue
5222 \newcommand*{\nopagenumbers}{\@displaypagenumbersfalse}
5223 \AtBeginDocument{%
5224   \if@displaypagenumbers%
5225     \ifundefined{r@lastpage}{\@displaypagenumbersfalse}%
5226     \ifthenelse{\pageref{lastpage} > 1}{%
5227       \fancypagestyle{plain}{%
5228         \fancyfoot[R]{\beginL\addressfont\@quotecolour\footnotesize\thepage\beginL\endL\pageref{lastpage}}%
5229       \pagestyle{plain}}}%
5230   \AtEndDocument{\label{lastpage}}%
5231   \fi}
5232 \newlength{\bibindent}
5233 \setlength{\bibindent}{1.5em}
5234 \newcommand*{\bibliographyitemlabel}{\includegraphics{bidi-bibitem.pdf}}
5235 \newenvironment{thebibliography}[1]{%
5236   {%
5237     \section{\refname}%
5238     \small%
5239     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
5240     \bidi@thebibliography@font@hook%
5241     \begin{list}{\bibliographyitemlabel}%
5242       {%
5243         \setlength{\topsep}{0pt}%
5244         \setlength{\labelwidth}{\hintscolumnwidth}%
5245         \setlength{\labelsep}{\separatorcolumnwidth}%
5246         \leftmargin\labelwidth%
5247         \advance\leftmargin\labelsep%
5248         \@openbib@code%
5249         \usecounter{enumiv}%
5250         \let\p@enumiv\@empty%
5251         \renewcommand\theenumiv{\@arabic\c@enumiv}}%

```



```

5252      \sloppy\clubpenalty4000\widowpenalty4000%
5253    }%
5254    {%
5255      \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
5256      \end{list}%
5257    }
5258    \newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
5259    \let\@openbib@code\@empty

```

51 File bidi-perpage.sty

```

5260 \NeedsTeXFormat{LaTeX2e}
5261 \ProvidesPackage{bidi-perpage}[2025/09/15 v0.5 Reset counter(s) on every page]
5262 \newcommand*{\bidi@checkvlist}{%
5263   \ifcase
5264     \ifvmode
5265       \ifx\lastnodetype\bidi@undefined
5266         \ifdim-\@m\p@=\prevdepth
5267           \ifdim\lastskip=\z@
5268             \ifnum\lastpenalty=\z@
5269               \@ne
5270             \fi
5271           \fi
5272         \fi
5273       \else
5274         \ifnum\lastnodetype=\m@ne
5275           \@ne
5276         \fi
5277       \fi
5278     \fi
5279     \z@
5280   \or
5281     \PackageWarning{bidi-perpage}{%
5282       `string\stepcounter' is probably at the beginning of vertical
5283       list.
5284       You may need to use `string\leavevmode' before it to avoid
5285       vertical shifts%
5286     }%
5287   \fi
5288 }
5289 \newcount\bidi@page@count
5290 \bidi@page@count\@ne
5291 \newcommand*{\ResetCounterPerPage}[2][\z@]{%
5292   \if@bidi@csundef\bidi@stepcounterhook@@#2}{%
5293     \expandafter\gdef\csname bidi@stepcounterhook@@#2\endcsname{}%
5294   }{}%
5295   \if@bidi@csundef{if@bidi@reset@#2@rerun}{%
5296     \expandafter\newif\csname if@bidi@reset@#2@rerun\endcsname
5297   }{}%
5298   \if@bidi@csundef\bidi@#2@count}{%
5299     \expandafter\newcount\csname bidi@#2@count\endcsname
5300   }{}%
5301   \csname bidi@#2@count\endcsname\z@
5302   \if@bidi@csundef\bidi@previous@page@@#2@count}{%

```



```

5303 \expandafter\newcount\csname
5304 bidi@previous@page@@#2@count\endcsname
5305 }{}%
5306 \csname bidi@previous@page@@#2@count\endcsname\z@
5307 \if@bidi@csundef{bidi@reset@#2@perpage}{%
5308 \bidi@AfterEndDocumentCheckLabelsRerun{%
5309 \csname if@bidi@reset@#2@rerun\endcsname
5310 \PackageWarningNoLine{bidi-perpage}{%
5311 Counter `#2' may not have been reset per page.
5312 Rerun to reset counter `#2' per page%
5313 }%
5314 \fi
5315 }%
5316 }{}%
5317 \expandafter\gdef\csname bidi@reset@#2@perpage\endcsname{%
5318 \global\advance\csname bidi@#2@count\endcsname\@ne
5319 \if@filesw
5320 \edef\@tempa{%
5321 \write\@auxout{%
5322 \string\bidi@counter@page{#2}%
5323 {\number\csname bidi@#2@count\endcsname}%
5324 {\noexpand\number\noexpand\bidi@page@count}%
5325 }%
5326 }%
5327 \bidi@checkvlist
5328 \dimen@=\lastkern
5329 \ifdim\dimen@=\z@
5330 \else
5331 \unkern
5332 \fi
5333 \count@=\lastpenalty
5334 \@tempa
5335 \ifdim\dimen@=\z@
5336 \penalty
5337 \ifnum\count@<\@M
5338 \@M
5339 \else
5340 \count@
5341 \fi
5342 \else
5343 \kern\dimen@
5344 \fi
5345 \fi
5346 \begingroup\expandafter\expandafter\expandafter\endgroup
5347 \expandafter\ifx\csname bidi@#2@@\number\csname
5348 bidi@#2@count\endcsname\endcsname\relax
5349 \global\csname @bidi@reset@#2@reruntrue\endcsname
5350 \else
5351 \global\csname @bidi@reset@#2@rerunfalse\endcsname
5352 \expandafter\@tempcnta\csname bidi@#2@@\number
5353 \csname bidi@#2@count\endcsname\endcsname\relax
5354 \ifnum\@tempcnta=\csname
5355 bidi@previous@page@@#2@count\endcsname
5356 \else

```



```

5357 \global\csname
5358 bidi@previous@page@@#2@count\endcsname\@tempcnta
5359 \global\csname c@#2\endcsname#1\relax
5360 \fi
5361 \fi
5362 }%
5363 \expandafter\@bidi@gappto\csname
5364 bidi@stepcounterhook@@#2\endcsname{%
5365 \csname bidi@reset@#2@perpage\endcsname
5366 }%
5367 }
5368 \def\@bidi@counter@page#1#2#3{\@bidi@namegdef{\bidi@#1@@#2}{#3}}
5369 \bidi@AtEndOutputPage{%
5370 \global\advance\@bidi@page@count\@ne
5371 }

```

52 File biditools.sty

```

5372 \NeedsTeXFormat{LaTeX2e}
5373 \ProvidesPackage{biditools}[2025/12/19 v2.9 Programming tools for bidi package]
5374 \providecommand{\@bidi@saveprimitive}[2]{\@begingroup\escapechar`\relax
5375 \edef\@tempa{\string#1}\edef\@tempb{\meaning#1}%
5376 \ifx\@tempa\@tempb \global\let#2#1%
5377 \else
5378 \edef\@tempb{\meaning#2}%
5379 \ifx\@tempa\@tempb
5380 \else
5381 \latexerror{Unable to properly define \string#2; primitive
5382 \noexpand#1no longer primitive}\@eha
5383 \fi
5384 \fi
5385 \endgroup}
5386 \newtoks\@bidi@envbody
5387 \newtoks\@bidi@emptytoks
5388 \def\bidi@addto@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5389 \def\bidi@collect@body#1{%
5390 \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5391 \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentvir}}%
5392 \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5393 \begingroup
5394 \expandafter\let\csname\@currentvir\endcsname\bidi@collect@@body
5395 \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currentvir\endcsname}%
5396 \bidi@process@envbody
5397 }
5398 \def\bidi@push@begins#1\begin#2{%
5399 \ifx\end#2\else b\expandafter\bidi@push@begins\fi
5400 }
5401 \def\bidi@collect@@body#1\end#2{%
5402 \edef\begin@bidi@stack{\bidi@push@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack
5403 \ifx\@empty\begin@bidi@stack
5404 \endgroup
5405 \@checkend{#2}%
5406 \bidi@addto@envbody{#1}%
5407 \else

```



```

5408 \bidi@addto@envbody{#1\end{#2}}%
5409 \fi
5410 \bidi@process@envbody % A little tricky! Note the grouping
5411 }
5412 \long\def\bidi@addto@long@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}%
5413 \long\def\bidi@collect@long@body#1{%
5414 \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5415 \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentvir}}%
5416 \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5417 \begingroup
5418 \expandafter\let\csname\@currentvir\endcsname\bidi@collect@long@@body
5419 \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currentvir\endcsname}%
5420 \bidi@process@envbody
5421 }
5422 \long\def\bidi@push@long@begins#1\begin#2{%
5423 \ifx\end#2\else b\expandafter\bidi@push@long@begins\fi
5424 }
5425 \long\def\bidi@collect@long@@body#1\end#2{%
5426 \edef\begin@bidi@stack{\bidi@push@long@begins#1\begin\end \expandafter\@gobble\begin@bidi@
5427 \ifx\@empty\begin@bidi@stack
5428 \endgroup
5429 \@checkend{#2}%
5430 \bidi@addto@long@envbody{#1}%
5431 \else
5432 \bidi@addto@long@envbody{#1\end{#2}}%
5433 \fi
5434 \bidi@process@envbody % A little tricky! Note the grouping
5435 }
5436 \long\def\bidi@new@ifnextchar#1#2#3{%
5437 \let\reserved@d= #1%
5438 \def\reserved@a{#2}\def\reserved@b{#3}%
5439 \futurelet\@let@token\bidi@new@ifnch
5440 }
5441 \def\bidi@new@ifnch{%
5442 \ifx\@let@token\reserved@d \let\reserved@b\reserved@a \fi
5443 \reserved@b
5444 }
5445 \def\bidi@matrix@check#1{%
5446 \expandafter\ifx\csname\@currentvir\endcsname#1%
5447 \else\bidi@matrix@error#1%
5448 \expandafter\@gobble
5449 \fi
5450 }
5451 \def\bidi@matrix@error#1{%
5452 \PackageError{biditools}{%
5453 Old form ``\string#1' should be \string\begin{\expandafter\@gobble\string#1}%
5454 }{%
5455 ``\string#1{...}' is old bidi package syntax whose use is
5456 ill-advised in the old versions of bidi package.%
5457 }%
5458 }
5459 \def\eqnewif#1#2{%
5460 \count@\escapechar \escapechar\m@ne
5461 \let#1\iffalse

```



```

5462 \let#2\iffalse
5463 \eq@if#1#2\iftrue
5464 \eq@if#1#2\iffalse
5465 \escapechar\count0}
5466 \def\eq@if#1#2#3{%
5467 \expandafter\def\csname\expandafter@gobbletwo\string#1%
5468 \expandafter@gobbletwo\string#3\endcsname
5469 {\let#1#3%
5470 \let#2#3}%
5471 \expandafter\def\csname\expandafter@gobbletwo\string#2%
5472 \expandafter@gobbletwo\string#3\endcsname
5473 {\let#2#3%
5474 \let#1#3}}
5475 \def\noteqnewif#1#2{%
5476 \count0\escapechar \escapechar\m@ne
5477 \let#1\iffalse
5478 \let#2\iffalse
5479 \not@eq@if#1#2\iftrue\iffalse
5480 \escapechar\count0}
5481 \def\not@eq@if#1#2#3#4{%
5482 \expandafter\def\csname\expandafter@gobbletwo\string#1%
5483 \expandafter@gobbletwo\string#3\endcsname
5484 {\let#1#3%
5485 \let#2#4}%
5486 \expandafter\def\csname\expandafter@gobbletwo\string#1%
5487 \expandafter@gobbletwo\string#4\endcsname
5488 {\let#1#4%
5489 \let#2#3}%
5490 \expandafter\def\csname\expandafter@gobbletwo\string#2%
5491 \expandafter@gobbletwo\string#3\endcsname
5492 {\let#2#3%
5493 \let#1#4}%
5494 \expandafter\def\csname\expandafter@gobbletwo\string#2%
5495 \expandafter@gobbletwo\string#4\endcsname
5496 {\let#2#4%
5497 \let#1#3}}
5498 \newcommand*{\SetBoolean}[2]{%
5499 \lowercase{\def\@tempa{#2}}%
5500 \@ifundefined{\@tempswa\@tempa}%
5501 {\PackageError{biditytools}%
5502 {You can only set a boolean to `true' or `false'}\@ehc}%
5503 {\@ifundefined{#1\@tempa}%
5504 {\PackageError{biditytools}{Boolean #1 undefined}\@ehc}%
5505 {\csname#1\@tempa\endcsname}}}
5506 \newcommand*{\GlobalSetBoolean}[2]{%
5507 \lowercase{\def\@tempa{#2}}%
5508 \@ifundefined{\@tempswa\@tempa}%
5509 {\PackageError{biditytools}%
5510 {You can only set a boolean to `true' or `false'}\@ehc}%
5511 {\@ifundefined{#1\@tempa}%
5512 {\PackageError{biditytools}{Boolean #1 undefined}\@ehc}%
5513 {\global\csname#1\@tempa\endcsname}}}
5514 \newcommand*{\SetatBoolean}[2]{%
5515 \lowercase{\def\@tempa{#2}}%

```



```

5516 \ifundefined{@temp\swa\@tempa}%
5517   {\PackageError{biditools}%
5518     {You can only set a boolean to `true' or `false'}\@ehc}%
5519   {\ifundefined{@#1\@tempa}%
5520     {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5521     {\csname @#1\@tempa\endcsname}}}
5522 \newcommand*{\GlobalSetatBoolean}[2]{%
5523   \lowercase{\def\@tempa{#2}}%
5524   \ifundefined{@temp\swa\@tempa}%
5525     {\PackageError{biditools}%
5526       {You can only set a boolean to `true' or `false'}\@ehc}%
5527     {\ifundefined{@#1\@tempa}%
5528       {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5529       {\global\csname @#1\@tempa\endcsname}}}
5530 \def\@bidi@removefromreset#1#2{%
5531   \expandafter\let\csname c@#1\endcsname\@bidi@removefromreset
5532   \def\@elt##1{%
5533     \expandafter\ifx\csname c@##1\endcsname\@bidi@removefromreset
5534     \else
5535       \noexpand\@elt{##1}%
5536     \fi}%
5537   \expandafter\xdef\csname cl@#2\endcsname{%
5538     \csname cl@#2\endcsname}}
5539 \newcommand*{\ifRtoL}{%
5540   \if@RTL
5541     \expandafter\@firstoftwo
5542   \else
5543     \expandafter\@secondoftwo
5544   \fi}
5545 \newcommand*{\ifLtoR}{%
5546   \if@RTL
5547     \expandafter\@secondoftwo
5548   \else
5549     \expandafter\@firstoftwo
5550   \fi}
5551 \newcommand*{\ifRtoLtable}{%
5552   \if@RTLtab
5553     \expandafter\@firstoftwo
5554   \else
5555     \expandafter\@secondoftwo
5556   \fi}
5557 \newcommand*{\ifLtoRtable}{%
5558   \if@RTLtab
5559     \expandafter\@secondoftwo
5560   \else
5561     \expandafter\@firstoftwo
5562   \fi}
5563 \newcommand*{\ifRtoLhboxconstruct}{%
5564   \if@hboxRconstruct
5565     \expandafter\@firstoftwo
5566   \else
5567     \expandafter\@secondoftwo
5568   \fi}
5569 \newcommand*{\ifLtoRhboxconstruct}{%

```



```

5570 \if@hboxRconstruct
5571 \expandafter\@secondoftwo
5572 \else
5573 \expandafter\@firstoftwo
5574 \fi}
5575 \newcommand*{\iflatin}{%
5576 \if@nonlatin
5577 \expandafter\@secondoftwo
5578 \else
5579 \expandafter\@firstoftwo
5580 \fi}
5581 \newcommand*{\ifnonlatin}{%
5582 \if@nonlatin
5583 \expandafter\@firstoftwo
5584 \else
5585 \expandafter\@secondoftwo
5586 \fi}
5587
5588 \newcommand*{\bidi@@convert@dimen@t@unit}[2]{%
5589 \strip@pt\dimexpr #1*65536/\dimexpr 1#2\relax #2}
5590
5591 \newcommand*{\bidi@@convert@dimen@t@pt}[1]{%
5592 \dimexpr #1*65536/\dimexpr 1pt\relax}
5593
5594 \newcommand*{\IfPackageVersionAtLeastTF}[1]{%
5595 \expandafter\@if@ver@pkg@least\csname #1@version\endcsname
5596 }
5597 \newcommand*{\@if@ver@pkg@least}[2]{%
5598 \ifnum\expandafter\bidi@parse@ver@#100\@nil<\expandafter\bidi@parse@ver@#200\@nil
5599 \expandafter\@secondoftwo
5600 \else
5601 \expandafter\@firstoftwo
5602 \fi
5603 }
5604 \newcommand*{\bidi@parse@ver@}[1]{\bidi@parse@ver0#1}
5605 \def\bidi@parse@ver#1.#2.#3#4#5\@nil{%
5606 \if\relax#2\relax\else#1\fi#2#3#4
5607 }
5608 \newcommand*{\IfPackageVersionAtMostTF}[1]{%
5609 \expandafter\@if@ver@pkg@most\csname #1@version\endcsname
5610 }
5611 \newcommand*{\@if@ver@pkg@most}[2]{%
5612 \ifnum\expandafter\bidi@parse@ver@#100\@nil>\expandafter\bidi@parse@ver@#200\@nil
5613 \expandafter\@secondoftwo
5614 \else
5615 \expandafter\@firstoftwo
5616 \fi
5617 }
5618 \newcommand*{\IfPackageVersionTF}[1]{%
5619 \expandafter\@if@ver@pkg@\csname #1@version\endcsname
5620 }
5621 \newcommand*{\@if@ver@pkg@}[2]{%
5622 \ifnum\expandafter\bidi@parse@ver@#100\@nil=\expandafter\bidi@parse@ver@#200\@nil
5623 \expandafter\@firstoftwo

```




```

5624 \else
5625 \expandafter\@secondoftwo
5626 \fi
5627 }
5628
5629 \newcommand*\if@bidi@csdef}[1]{%
5630 \ifcsname#1\endcsname
5631 \expandafter\@firstoftwo
5632 \else
5633 \expandafter\@secondoftwo
5634 \fi}
5635 \newcommand*\if@bidi@csundef}[1]{%
5636 \ifcsname#1\endcsname
5637 \expandafter\ifx\csname#1\endcsname\relax
5638 \expandafter\expandafter
5639 \expandafter\@firstoftwo
5640 \else
5641 \expandafter\expandafter
5642 \expandafter\@secondoftwo
5643 \fi
5644 \else
5645 \expandafter\@firstoftwo
5646 \fi}
5647 \newcommand{\if@bidi@def}[1]{%
5648 \ifdefined#1%
5649 \expandafter\@firstoftwo
5650 \else
5651 \expandafter\@secondoftwo
5652 \fi}
5653 \newcommand{\if@bidi@undef}[1]{%
5654 \ifdefined#1%
5655 \ifx#1\relax
5656 \expandafter\expandafter
5657 \expandafter\@firstoftwo
5658 \else
5659 \expandafter\expandafter
5660 \expandafter\@secondoftwo
5661 \fi
5662 \else
5663 \expandafter\@firstoftwo
5664 \fi}
5665 \newcommand{\if@bidi@blank}[1]{% from url.sty
5666 \bidi@ifblank@i#1&&\@secondoftwo\@firstoftwo:}
5667 \long\def\bidi@ifblank@i#1#2&#3#4#5:{#4}
5668 \newcommand{\bidi@notblank}[1]{%
5669 \bidi@ifblank@i#1&&\@firstoftwo\@secondoftwo:}
5670 \newcommand{\if@bidi@defmacro}{}
5671 \long\edef\if@bidi@defmacro#1{%
5672 \noexpand\expandafter\noexpand\bidi@ifdefmacro
5673 \noexpand\meaning#1\detokenize{macro}:&}
5674 \edef\bidi@ifdefmacro{%
5675 \def\noexpand\bidi@ifdefmacro##1\detokenize{macro}:##2&}
5676 \bidi@ifdefmacro{\bidi@notblank{#2}}
5677 \newcommand*\if@bidi@csmacro}[1]{%

```



```

5678 \if@bidi@csdef{#1}
5679   {\expandafter\if@bidi@defmacro\csname#1\endcsname}
5680   {\@secondoftwo}}
5681 \newcommand{\if@bidi@defprimitive}[1]{%
5682   \ifprimitive#1
5683     \expandafter\@firstoftwo
5684   \else
5685     \expandafter\@secondoftwo
5686   \fi}
5687 \newcommand{\if@bidi@csprimitive}[1]{%
5688   \begingroup\expandafter\expandafter\expandafter\endgroup%
5689   \expandafter\ifprimitive\csname#1\endcsname%
5690   \expandafter\@firstoftwo
5691   \else
5692     \expandafter\@secondoftwo
5693   \fi}
5694 \newcommand*{\bidi@csdefcs}[2]{%
5695   \expandafter\@ifdefinable \csname#1\endcsname{%
5696     \expandafter\def\csname#1\expandafter\endcsname{\csname#2\endcsname}}
5697   \newcommand*{\bidi@csletcs}[2]{%
5698     \expandafter\@ifdefinable \csname#1\endcsname{%
5699       \expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname}}
5700   \newcommand*{\bidi@cslet}[2]{%
5701     \expandafter\@ifdefinable \csname#1\endcsname{%
5702       \expandafter\let\csname#1\endcsname#2}}
5703   \newcommand{\bidi@namelongdef}[1]{%
5704     \long\expandafter\def\csname #1\endcsname}
5705   \newcommand{\bidi@namelonggdef}[1]{%
5706     \long\expandafter\gdef\csname #1\endcsname}
5707   \newcommand{\bidi@namelongedef}[1]{%
5708     \long\expandafter\edef\csname #1\endcsname}
5709   \newcommand{\bidi@namelongxdef}[1]{%
5710     \long\expandafter\xdef\csname #1\endcsname}
5711   \def\bidi@ensure@newcommand{\@star@or@long\bidi@ensure@new@command}
5712   \def\bidi@ensure@new@command#1{%
5713     \begingroup \escapechar\m@ne\xdef\@gtempa{\string#1}\endgroup
5714     \expandafter\if@bidi@csundef\@gtempa
5715       {\new@command#1}{\relax%
5716         \let\@ifdefinable\@rc@ifdefinable%
5717         \new@command#1}}
5718   \def\bidi@ensure@newlength#1{\if@bidi@undef#1{\newskip#1}{}}
5719
5720 \protected\def\bidi@error{\PackageError{bidi}}
5721 \protected\def\bidi@warning{\PackageWarning{bidi}}
5722 \protected\def\bidi@warningnoline{\PackageWarningNoLine{bidi}}
5723 \protected\def\bidi@info{\PackageInfo{bidi}}
5724
5725 \def\bidi@pos#1#2#3#4{\bidi@namegdef\bidi@#1pos@@#2@#3}{#4}}
5726
5727 \newcount\bidi@poscount
5728
5729 \newcommand*{\WriteStartXPostoaux}{%
5730   \global\advance\bidi@poscount\@ne
5731   \edef\@tempa{%

```



```

5732     \write\@auxout{%
5733         \string\bidipos{x}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5734     }%
5735 }%
5736 \ifvmode
5737     \leavevmode
5738 \fi
5739 \if@RTL
5740     \if@filesw
5741         \@tempa
5742 \fi
5743 \pdfsavepos
5744 \else
5745 \pdfsavepos
5746 \if@filesw
5747     \@tempa
5748 \fi
5749 \fi
5750 \if@bidi@csundef{bidi@xpos@@start@\number\bidiposcount}{%
5751     \PackageWarningNoLine{biditools}{%
5752         The start x position `\'number\bidiposcount' is not known yet.
5753         Rerun to get this x position%
5754     }%
5755 }{}%
5756 }
5757
5758 \newcommand*{\WriteEndXPostoaux}{%
5759     \edef\@tempa{%
5760         \write\@auxout{%
5761             \string\bidipos{x}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5762         }%
5763     }%
5764 \if@RTL
5765     \if@filesw
5766         \@tempa
5767 \fi
5768 \pdfsavepos
5769 \else
5770 \pdfsavepos
5771 \if@filesw
5772     \@tempa
5773 \fi
5774 \fi
5775 \if@bidi@csundef{bidi@xpos@@end@\number\bidiposcount}{%
5776     \PackageWarningNoLine{biditools}{%
5777         The end x position `\'number\bidiposcount' is not known yet.
5778         Rerun to get this x position%
5779     }%
5780 }{}%
5781 }
5782
5783 \newcommand*{\WriteStartYPostoaux}{%
5784     \global\advance\bidiposcount\@ne
5785     \edef\@tempa{%

```



```

5786     \write\@auxout{%
5787         \string\bidipos{y}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdfasty
5788     }%
5789 }%
5790 \ifvmode
5791     \leavevmode
5792 \fi
5793 \if@RTL
5794     \if@filesw
5795         \@tempa
5796 \fi
5797 \pdfsavepos
5798 \else
5799 \pdfsavepos
5800 \if@filesw
5801     \@tempa
5802 \fi
5803 \fi
5804 \if@bidi@csundef{bidi@ypos@@start@\number\bidiposcount}{%
5805     \PackageWarningNoLine{biditools}{%
5806         The start y position ` \number\bidiposcount' is not known yet.
5807         Rerun to get this y position%
5808     }%
5809 }{}%
5810 }
5811
5812 \newcommand*{\WriteEndYPostoaux}{%
5813     \edef\@tempa{%
5814         \write\@auxout{%
5815             \string\bidipos{y}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdfasty
5816         }%
5817     }%
5818 \if@RTL
5819     \if@filesw
5820         \@tempa
5821 \fi
5822 \pdfsavepos
5823 \else
5824 \pdfsavepos
5825 \if@filesw
5826     \@tempa
5827 \fi
5828 \fi
5829 \if@bidi@csundef{bidi@ypos@@end@\number\bidiposcount}{%
5830     \PackageWarningNoLine{biditools}{%
5831         The end y position ` \number\bidiposcount' is not known yet.
5832         Rerun to get this y position%
5833     }%
5834 }{}%
5835 }
5836
5837 \newcommand*{\WriteStartXYPostoaux}{%
5838     \global\advance\bidiposcount\@ne
5839     \edef\@tempa{%

```



```

5840     \write\@auxout{%
5841         \string\bidipos{x}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5842     }%
5843     \write\@auxout{%
5844         \string\bidipos{y}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflasty
5845     }%
5846 }%
5847 \ifvmode
5848     \leavevmode
5849 \fi
5850 \if@RTL
5851     \if@filesw
5852         \@tempa
5853     \fi
5854     \pdfsavepos
5855     \else
5856     \pdfsavepos
5857     \if@filesw
5858         \@tempa
5859     \fi
5860 \fi
5861 \if@bidi@csundef{bidi@xpos@@start@\number\bidiposcount}{%
5862     \PackageWarningNoLine{biditools}{%
5863         The start x position `\'number\bidiposcount' is not known yet.
5864         Rerun to get this x position%
5865     }%
5866 }{}%
5867 \if@bidi@csundef{bidi@ypos@@start@\number\bidiposcount}{%
5868     \PackageWarningNoLine{biditools}{%
5869         The start y position `\'number\bidiposcount' is not known yet.
5870         Rerun to get this y position%
5871     }%
5872 }{}%
5873 }
5874
5875 \newcommand*{\WriteEndXYPostoaux}{%
5876     \edef\@tempa{%
5877         \write\@auxout{%
5878             \string\bidipos{x}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5879         }%
5880         \write\@auxout{%
5881             \string\bidipos{y}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflasty
5882         }%
5883     }%
5884 \if@RTL
5885     \if@filesw
5886         \@tempa
5887     \fi
5888     \pdfsavepos
5889     \else
5890     \pdfsavepos
5891     \if@filesw
5892         \@tempa
5893     \fi

```



```

5894 \fi
5895 \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{%
5896     \PackageWarningNoLine{biditools}{%
5897         The end x position ``\number\bidi@poscount' is not known yet.
5898         Rerun to get this x position%
5899     }%
5900 }{}%
5901 \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{%
5902     \PackageWarningNoLine{biditools}{%
5903         The end y position ``\number\bidi@poscount' is not known yet.
5904         Rerun to get this y position%
5905     }%
5906 }{}%
5907 }
5908
5909 \newcommand*{\currentposxwidth}{%
5910     \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{\z@}
5911     {%
5912         \ifnum\csname bidi@xpos@@start@\number\bidi@poscount
5913             \endcsname < \csname bidi@xpos@@end@\number\bidi@poscount
5914             \endcsname
5915             \dimexpr \csname bidi@xpos@@end@\number\bidi@poscount
5916             \endcsname sp - \csname bidi@xpos@@start@\number\bidi@poscount
5917             \endcsname sp\relax
5918         \else
5919             \dimexpr \csname bidi@xpos@@start@\number\bidi@poscount
5920             \endcsname sp - \csname bidi@xpos@@end@\number\bidi@poscount
5921             \endcsname sp\relax
5922         \fi
5923     }%
5924 }
5925
5926 \newcommand*{\currentposyheight}{%
5927     \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{\z@}
5928     {%
5929         \dimexpr \csname bidi@ypos@@start@\number\bidi@poscount
5930             \endcsname sp - \csname bidi@ypos@@end@\number\bidi@poscount
5931             \endcsname sp\relax
5932     }%
5933 }
5934
5935
5936
5937 \newcommand*{\setbaselineskip}[1]{%
5938     \linespread{\strip@pt\dimexpr\numexpr\dimexpr#1\relax*65536/\dimexpr\baselineskip\relax}
5939     \selectfont
5940 }
5941
5942
5943 \newcommand*{\bidi@newrobustcmd}{}
5944 \protected\def\bidi@newrobustcmd{\@star@or@long\bidi@new@command}
5945
5946 \def\bidi@new@command#1{\@testopt{\bidi@newcommand#1}0}
5947

```



```

5948 \def\bidinewcommand#1[#2]{%
5949   \@ifnextchar[%
5950     {\bidixargdef#1[#2]}
5951     {\ifx\l@ngrel@x\relax
5952       \let\l@ngrel@x\protected
5953     }else
5954       \protected\def\l@ngrel@x{\protected\long}%
5955     \fi
5956     \@argdef#1[#2]}}
5957
5958 \long\def\bidixargdef#1[#2][#3]#4{%
5959   \@ifdefinable#1{%
5960     \expandafter\protected
5961     \expandafter\def
5962     \expandafter#1%
5963     \expandafter{%
5964       \expandafter\@testopt
5965       \csname\string#1\endcsname{#3}}%
5966     \expandafter\@yargdef\csname\string#1\endcsname\tw@{#2}{#4}}}
5967
5968 \bidinewrobustcmd*{\bidirenewrobustcmd}{\@star@or@long\bidirenew@command}
5969
5970 \def\bidirenew@command#1{%
5971   \if@bidi@undef{#1}
5972     {\biderror{\string#1 undefined}\@ehc}
5973     {}%
5974   \let\@ifdefinable\@rc@ifdefinable
5975   \bidinew@command#1}
5976
5977
5978
5979 \bidinewrobustcmd*{\bidiproviderobustcmd}{\@star@or@long\bidiprovide@command}
5980
5981 \def\bidiprovide@command#1{%
5982   \if@bidi@undef{#1}
5983     {\def\reserved@a{\bidinew@command#1}}
5984     {\def\reserved@a{\bidirenew@command\reserved@a}}%
5985   \reserved@a}
5986
5987 \newcommand*{\bidicsuse}[1]{%
5988   \ifcsname#1\endcsname
5989     \csname#1\expandafter\endcsname
5990   \fi}
5991
5992 \newcommand{\bidixpandonce}[1]{%
5993   \unexpanded\expandafter{#1}}
5994
5995 \def\bidiprotected{%
5996   \let\@protect\protect
5997   \let\protect\@unexpandable@protect
5998   \afterassignment\restore@protect}
5999
6000 \bidinewrobustcmd{\bidiappto}[2]{%
6001   \if@bidi@undef{#1}

```



```

6002     {\edef#1{\unexpanded{#2}}}
6003     {\edef#1{\bidi@expandonce#1\unexpanded{#2}}}}
6004 \bidi@newrobustcmd{\bidi@eappto}[2]{%
6005   \if@bidi@undef{#1}
6006     {\edef#1{#2}}
6007     {\edef#1{\bidi@expandonce#1#2}}}
6008 \bidi@newrobustcmd{\bidi@gappto}[2]{%
6009   \if@bidi@undef{#1}
6010     {\xdef#1{\unexpanded{#2}}}
6011     {\xdef#1{\bidi@expandonce#1\unexpanded{#2}}}}
6012 \bidi@newrobustcmd{\bidi@xappto}[2]{%
6013   \if@bidi@undef{#1}
6014     {\xdef#1{#2}}
6015     {\xdef#1{\bidi@expandonce#1#2}}}
6016
6017 \bidi@newrobustcmd*{\bidi@protected@eappto}{\bidi@protected\bidi@eappto}
6018 \bidi@newrobustcmd*{\bidi@protected@xappto}{\bidi@protected\bidi@xappto}
6019
6020
6021
6022 \bidi@newrobustcmd{\bidi@preto}[2]{%
6023   \if@bidi@undef{#1}
6024     {\edef#1{\unexpanded{#2}}}
6025     {\edef#1{\unexpanded{#2}\bidi@expandonce#1}}
6026 \bidi@newrobustcmd{\bidi@epreto}[2]{%
6027   \if@bidi@undef{#1}
6028     {\edef#1{#2}}
6029     {\edef#1{#2\bidi@expandonce#1}}
6030 \bidi@newrobustcmd{\bidi@gpreto}[2]{%
6031   \if@bidi@undef{#1}
6032     {\xdef#1{\unexpanded{#2}}}
6033     {\xdef#1{\unexpanded{#2}\bidi@expandonce#1}}
6034 \bidi@newrobustcmd{\bidi@xpreto}[2]{%
6035   \if@bidi@undef{#1}
6036     {\xdef#1{#2}}
6037     {\xdef#1{#2\bidi@expandonce#1}}
6038
6039 \bidi@newrobustcmd*{\bidi@protected@epreto}{\bidi@protected\bidi@epreto}
6040 \bidi@newrobustcmd*{\bidi@protected@xpreto}{\bidi@protected\bidi@xpreto}
6041
6042
6043
6044 \bidi@newrobustcmd*{\bidi@csappto}[1]{\expandafter\bidi@appto\csname#1\endcsname}
6045 \bidi@newrobustcmd*{\bidi@cseappto}[1]{\expandafter\bidi@eappto\csname#1\endcsname}
6046 \bidi@newrobustcmd*{\bidi@csgappto}[1]{\expandafter\bidi@gappto\csname#1\endcsname}
6047 \bidi@newrobustcmd*{\bidi@csxappto}[1]{\expandafter\bidi@xappto\csname#1\endcsname}
6048 \bidi@newrobustcmd*{\bidi@protected@cseappto}{\bidi@protected\bidi@cseappto}
6049 \bidi@newrobustcmd*{\bidi@protected@csxappto}{\bidi@protected\bidi@csxappto}
6050
6051
6052
6053 \bidi@newrobustcmd*{\bidi@cspreto}[1]{\expandafter\bidi@preto\csname#1\endcsname}
6054 \bidi@newrobustcmd*{\bidi@csepreto}[1]{\expandafter\bidi@epreto\csname#1\endcsname}
6055 \bidi@newrobustcmd*{\bidi@csgpreto}[1]{\expandafter\bidi@gpreto\csname#1\endcsname}

```




```

6056 \bidi@newrobustcmd*{\bidi@csxpreto}[1]{\expandafter\bidi@xpreto\csname#1\endcsname}
6057 \bidi@newrobustcmd*{\bidi@protected@csepreto}{\bidi@protected\bidi@csepreto}
6058 \bidi@newrobustcmd*{\bidi@protected@csxpreto}{\bidi@protected\bidi@csxpreto}
6059
6060
6061
6062 \bidi@newrobustcmd{\if@bidi@patchable}{%
6063   \bidi@dbg@trce\if@bidi@patchable
6064   \beginingroup
6065   \@makeother\%
6066   \@ifstar\bidi@ifpatchablei\bidi@ifpatchable}
6067
6068 \long\def\bidi@ifpatchable#1#2{%
6069   \endgroup
6070   \bidi@dbg@init#1%
6071   \if@bidi@undef{#1}
6072     {\bidi@dbg@fail{def}\@secondoftwo}
6073     {\bidi@dbg@info{def}%
6074       \if@bidi@defmacro{#1}
6075         {\bidi@dbg@info{mac}%
6076           \bidi@ifscanable{#1}
6077             {\bidi@ifhashcheck{#2}
6078               {\bidi@dbg@info{tok}%
6079                 \bidi@ifpattern#1{#2}
6080                   {\bidi@dbg@info{pat}%
6081                     \bidi@dbg@info{pos}\@firstoftwo}
6082                     {\bidi@dbg@fail{pat}\@secondoftwo}}
6083                   {\bidi@dbg@fail{hsh}\@secondoftwo}}
6084                   {\bidi@dbg@fail{tok}\@secondoftwo}}
6085                   {\bidi@dbg@fail{mac}\@secondoftwo}}}
6086
6087 \long\def\bidi@ifpatchablei#1{%
6088   \endgroup
6089   \bidi@dbg@init#1%
6090   \if@bidi@undef{#1}
6091     {\bidi@dbg@fail{def}\@secondoftwo}
6092     {\bidi@dbg@info{def}%
6093       \if@bidi@defmacro{#1}
6094         {\bidi@dbg@info{mac}%
6095           \if@bidi@defparam{#1}
6096             {\bidi@dbg@info{prm}%
6097               \bidi@ifscanable{#1}
6098                 {\bidi@dbg@info{tok}%
6099                   \bidi@dbg@info{pos}\@firstoftwo}
6100                   {\bidi@dbg@fail{tok}\@secondoftwo}}
6101                 {\bidi@dbg@info{prl}%
6102                   \if@bidi@defprotected{#1}
6103                     {\bidi@dbg@info{pro}}
6104                     {}%
6105                   \bidi@dbg@info{pos}\@firstoftwo}}
6106                 {\bidi@dbg@fail{mac}\@secondoftwo}}}
6107
6108 \bidi@newrobustcmd*{\bidi@patchcmd}{%
6109   \bidi@dbg@trce\bidi@patchcmd

```



```

6110 \begingroup
6111 \@makeother\#%
6112 \bidi@patchcmd}
6113
6114 \newcommand{\bidi@patchcmd}[4][#####1]{%
6115 \bidi@ifpatchable#2{#3}
6116 {\bidi@dbg@succ{ret}}%
6117 \begingroup
6118 \edef\bidi@resrvda{%
6119 \def\noexpand\bidi@resrvda####1\detokenize{macro:}####2->####3&{%
6120 #1\def\string\bidi@resrvda\space####2{\noexpand\bidi@resrvdb####3&}}%
6121 \def\noexpand\bidi@resrvdb####1\detokenize{#3}####2&{%
6122 #####1\detokenize{#4}####2}%
6123 \edef\noexpand\bidi@resrvda{%
6124 \noexpand\bidi@resrvda\meaning#2&}}%
6125 \bidi@resrvda
6126 \bidi@patchcmd@scantoks\bidi@resrvda
6127 \let#2\bidi@resrvda
6128 \bidi@undef\bidi@resrvda
6129 \@firstoftwo}
6130 {\@secondoftwo}}
6131
6132 \def\bidi@patchcmd@scantoks#1{%
6133 \edef\bidi@resrvda{\endgroup
6134 \unexpanded{\makeatletter\scantokens}{#1}%
6135 \catcode\number`\@=\the\catcode`\@\relax}%
6136 \bidi@resrvda}
6137
6138 \protected\def\bidi@ifscanable#1{%
6139 \begingroup
6140 \edef\bidi@resrvda{%
6141 \def\noexpand\bidi@resrvda####1\detokenize{macro:}####2->####3&{%
6142 #####1\def\string\bidi@resrvda####2{####3}}%
6143 \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda\meaning#1&}}%
6144 \bidi@resrvda
6145 \makeatletter
6146 \scantokens\expandafter{\bidi@resrvda}%
6147 \expandafter\endgroup\ifx#1\bidi@resrvda
6148 \expandafter\@firstoftwo
6149 \else
6150 \expandafter\@secondoftwo
6151 \fi}
6152
6153
6154 \protected\long\def\bidi@ifhashcheck#1{%
6155 \begingroup
6156 \edef\bidi@resrvda{\detokenize{#1}}%
6157 \expandafter\endgroup
6158 \expandafter\bidi@ifhashcheck@i\meaning\bidi@resrvda&}
6159
6160 \edef\bidi@ifhashcheck@i#1{%
6161 \noexpand\expandafter
6162 \noexpand\bidi@ifhashcheck@ii
6163 \noexpand\strip@prefix#1\string#\string#&}

```



```

6164
6165 \edef\bid@ifhashcheck@ii{%
6166   \def\noexpand\bid@ifhashcheck@ii##1\string#\string###2&}
6167 \bid@ifhashcheck@ii{\if@bid@blank{#2}}
6168
6169
6170 \protected\long\def\bid@ifpattern#1#2{%
6171   \begingroup
6172   \edef\bid@resrvda{%
6173     \def\noexpand\bid@resrvda####1\detokenize{#2}####2&{%
6174       \endgroup\noexpand\noexpand\noexpand\if@bid@blank{####2}}}%
6175   \edef\noexpand\bid@resrvda{\noexpand\bid@resrvda
6176     \expandafter\strip@prefix\meaning#1\detokenize{#2}&}%
6177   \noexpand\bid@resrvda}
6178 \bid@resrvda\@secondoftwo\@firstoftwo}
6179
6180
6181 \newcommand{\if@bid@defparam}{%
6182 \long\edef\if@bid@defparam#1{%
6183   \noexpand\expandafter\noexpand\bid@ifdefparam
6184   \noexpand\meaning#1\detokenize{macro}:->&}
6185 \edef\bid@ifdefparam{%
6186   \def\noexpand\bid@ifdefparam##1\detokenize{macro}:##2->##3&}
6187 \bid@ifdefparam{\bid@notblank{#2}}
6188
6189
6190 \newcommand{\if@bid@defprotected}{%
6191 \long\edef\if@bid@defprotected#1{%
6192   \noexpand\expandafter\noexpand\bid@ifdefprotected
6193   \noexpand\meaning#1\string\protected&}
6194 \edef\bid@ifdefprotected{%
6195   \def\noexpand\bid@ifdefprotected##1\string\protected##2&}
6196 \bid@ifdefprotected{\bid@notblank{#2}}
6197
6198
6199 \bid@newrobustcmd{\bid@undef}[1]{\let#1\bid@undefined}
6200 \bid@newrobustcmd{\bid@csundef}[1]{%
6201   \expandafter\let\csname #1\endcsname\bid@undefined
6202 }
6203
6204 \let\bid@dbg@trce\@gobble
6205 \let\bid@dbg@init\@gobble
6206 \let\bid@dbg@info\@gobble
6207 \let\bid@dbg@succ\@gobble
6208 \let\bid@dbg@fail\@gobble
6209
6210
6211
6212 \bid@newrobustcmd*{\bid@apptocmd}{%
6213   \bid@dbg@trce\bid@apptocmd
6214   \begingroup
6215   \@makeother\#%
6216   \bid@hooktocmd\bid@append}
6217

```



```

6218
6219
6220 \bidi@newrobustcmd*{\bidi@pretocmd}{%
6221   \bidi@dbg@trce\bidi@pretocmd
6222   \begingroup
6223   \@makeother\%
6224   \bidi@hooktocmd\bidi@prepend}
6225
6226 \long\def\bidi@hooktocmd#1#2#3{%
6227   \endgroup
6228   \bidi@dbg@init#2%
6229   \if@bidi@undef{#2}
6230     {\bidi@dbg@fail{def}\@secondoftwo}
6231     {\bidi@dbg@info{def}%
6232       \if@bidi@defmacro{#2}
6233         {\bidi@dbg@info{mac}%
6234           \if@bidi@defparam{#2}
6235             {\bidi@dbg@info{prm}%
6236               \bidi@ifscanable{#2}
6237                 {\bidi@ifhashcheck{#3}
6238                   {\bidi@dbg@info{tok}%
6239                     \bidi@dbg@succ{ret}%
6240                     \bidi@hooktocmd@i#1#2{#3}%
6241                     \@firstoftwo}
6242                   {\bidi@dbg@fail{hsh}\@secondoftwo}}
6243                 {\bidi@dbg@fail{tok}\@secondoftwo}}
6244               {\bidi@dbg@info{prl}%
6245                 \if@bidi@defprotected{#2}
6246                   {\bidi@dbg@info{pro}%
6247                     \bidi@dbg@succ{red}%
6248                     \protected}
6249                   {\bidi@dbg@succ{red}}}%
6250               \edef#2{#1{\bidi@expandonce#2}{\unexpanded{#3}}}%
6251               \@firstoftwo}}
6252             {\bidi@dbg@fail{mac}\@secondoftwo}}
6253
6254 \long\def\bidi@hooktocmd@i#1#2#3{%
6255   \begingroup
6256   \edef\bidi@resrvda{%
6257     \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3{%
6258       ####1\def\string\bidi@resrvda\space####2{#1{####3}{\detokenize{#3}}}%
6259     \edef\noexpand\bidi@resrvda{%
6260       \noexpand\bidi@resrvda\meaning#2&}}%
6261   \bidi@resrvda
6262   \bidi@patchcmd@scantoks\bidi@resrvda
6263   \let#2\bidi@resrvda
6264   \bidi@undef\bidi@resrvda}
6265
6266 \long\def\bidi@append#1#2{#1#2}
6267 \long\def\bidi@prepend#1#2{#2#1}
6268
6269 %\bidi@newrobustcmd*{\bidi@AtEndPreamble}{\bidi@gappto\bidi@endpreamblehook}
6270 %\newcommand*{\bidi@endpreamblehook}{
6271

```



```

6272 \bidi@newrobustcmd*{\bidi@AtEndPreamble}{\AddToHook{begindocument/before}}%
6273
6274 \bidi@newrobustcmd*{\bidi@BeforeOutputPageShipOut}{\bidi@gappto\bidi@beforeoutputpageshipout}
6275 \newcommand*{\bidi@beforeoutputpageshipouthook}{}
6276
6277 \bidi@newrobustcmd*{\bidi@BeforeHeader}{\bidi@gappto\bidi@beforeheaderhook}
6278 \newcommand*{\bidi@beforeheaderhook}{}
6279
6280 \bidi@newrobustcmd*{\bidi@BeforeOutputBoxOutputPage}{\bidi@gappto\bidi@beforeoutputboxoutput}
6281 \newcommand*{\bidi@beforeoutputboxoutputpagehook}{}
6282
6283 \bidi@newrobustcmd*{\bidi@AfterOutputBoxOutputPage}{\bidi@gappto\bidi@afteroutputboxoutput}
6284 \newcommand*{\bidi@afteroutputboxoutputpagehook}{}
6285
6286 \bidi@newrobustcmd*{\bidi@BeforeFooter}{\bidi@gappto\bidi@beforefooterhook}
6287 \newcommand*{\bidi@beforefooterhook}{}
6288
6289 \bidi@newrobustcmd*{\bidi@AfterFooter}{\bidi@gappto\bidi@afterfooterhook}
6290 \newcommand*{\bidi@afterfooterhook}{}
6291
6292
6293 \bidi@newrobustcmd*{\bidi@AfterOutputPageShipOut}{\bidi@gappto\bidi@afteroutputpageshipouthook}
6294 \newcommand*{\bidi@afteroutputpageshipouthook}{}
6295
6296 \bidi@newrobustcmd*{\bidi@AtEndOutputPage}{\bidi@gappto\bidi@atendoutputpagehook}
6297 \newcommand*{\bidi@atendoutputpagehook}{}
6298
6299 %\bidi@preto\document{%
6300 % \endgroup
6301 % \let\bidi@AtEndPreamble\@firstofone
6302 % \bidi@endpreamblehook
6303 % \protected\def\bidi@AtEndPreamble{\@notprerr\@gobble}%
6304 % \bidi@undef\bidi@endpreamblehook
6305 % \begingroup}
6306
6307 \bidi@newrobustcmd*{\bidi@AfterPreamble}{\AtBeginDocument}
6308 \bidi@AtEndPreamble{\let\bidi@AfterPreamble\@firstofone}
6309
6310 %\bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\bidi@gappto\bidi@afterendpreamblehook}
6311 %\newcommand*{\bidi@afterendpreamblehook}{}
6312
6313 \bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\AddToHook{begindocument/end}}%
6314
6315 %\bidi@appto\document{%
6316 % \let\bidi@AfterEndPreamble\@firstofone
6317 % \bidi@afterendpreamblehook
6318 % \protected\def\bidi@AfterEndPreamble{\@notprerr\@gobble}%
6319 % \bidi@undef\bidi@afterendpreamblehook
6320 % \ignorespaces}
6321
6322 \bidi@newrobustcmd*{\bidi@AfterEndDocumentCheckLabelsRerun}{\bidi@gappto\bidi@afterenddocumentchecklabelsrerun}
6323 \newcommand*{\bidi@afterenddocumentchecklabelsrerunhook}{}
6324
6325 \bidi@patchcmd\enddocument

```



```

6326 {\fi}
6327 {\let\bid@AfterEndDocumentCheckLabelsRerun\@firstofone
6328 \bid@afterenddocumentchecklabelssrerunhook
6329 \fi}
6330 {}
6331 {\PackageWarning{biditools}{Patching '\string\enddocument' failed}}
6332
6333 \AtEndDocument{\let\bid@AfterEndPreamble\@gobble}
6334
6335 \bid@newrobustcmd*{\bid@AfterLastShipout}{\bid@gappto\bid@afterlastshipouthook}
6336 \newcommand*{\bid@afterlastshipouthook}{}
6337
6338 \bid@patchcmd\enddocument
6339 {\clearpage}
6340 {\clearpage
6341 \let\bid@AfterLastShipout\@firstofone
6342 \bid@afterlastshipouthook}
6343 {}
6344 {\let\bid@clearpage\clearpage
6345 \def\clearpage{%
6346 \bid@clearpage
6347 \let\bid@AfterLastShipout\@firstofone
6348 \bid@afterlastshipouthook}}
6349
6350 %\bid@newrobustcmd*{\bid@AfterEndDocument}{\bid@gappto\bid@afterenddocumenthook}
6351 %\newcommand*{\bid@afterenddocumenthook}{}
6352
6353 \bid@newrobustcmd*{\bid@AfterEndDocument}{\AddToHook{enddocument/end}}%
6354
6355 %\bid@patchcmd\enddocument
6356 % {\deadcycles}
6357 % {\let\bid@AfterEndDocument\@firstofone
6358 % \bid@afterenddocumenthook
6359 % \deadcycles}
6360 % {}
6361 % {\let\bid@@end\@end
6362 % \def\@end{%
6363 % \let\bid@AfterEndDocument\@firstofone
6364 % \bid@afterenddocumenthook
6365 % \bid@@end}}
6366
6367 \bid@newrobustcmd{\bid@AtBeginEnvironment}[1]{%
6368 \bid@csgappto{\bid@begin@#1@hook}}
6369
6370 % Patch \begin<space> and \end<space> in newer LaTeX releases
6371 % \begin and \end in older ones.
6372 \expandafter\bid@patchcmd\csname begin\ifcsname begin\endcsname\space\fi\endcsname
6373 {\csname #1\endcsname}
6374 {\bid@csuse{\bid@begin@#1@hook}%
6375 \csname #1\endcsname}
6376 {}
6377 {\bid@warning{%
6378 Patching '\string\begin' failed!\MessageBreak
6379 '\string\bid@AtBeginEnvironment' will not work\@gobble}}

```



```

6380
6381
6382
6383 \bidi@newrobustcmd{\bidi@AtEndEnvironment}[1]{%
6384   \bidi@csgappto{@bidi@end@#1@hook}}
6385
6386 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6387   {\csname end#1\endcsname}
6388   {\bidi@csuse{@bidi@end@#1@hook}%
6389     \csname end#1\endcsname}
6390   {}
6391   {\bidi@warning{%
6392     Patching '\string\end' failed!\MessageBreak
6393     '\string\bidi@AtEndEnvironment' will not work\@gobble}}
6394
6395
6396
6397 \bidi@newrobustcmd{\bidi@BeforeBeginEnvironment}[1]{%
6398   \bidi@csgappto{@bidi@beforebegin@#1@hook}}
6399
6400 \expandafter\bidi@pretocmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6401   {\bidi@csuse{@bidi@beforebegin@#1@hook}}
6402   {}
6403   {\bidi@warning{%
6404     Patching '\string\begin' failed!\MessageBreak
6405     '\string\bidi@BeforeBeginEnvironment' will not work\@gobble}}
6406
6407 \bidi@newrobustcmd{\bidi@AfterEndEnvironment}[1]{%
6408   \bidi@csgappto{@bidi@afterend@#1@hook}}
6409
6410 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6411   {\if@ignore}
6412   {\bidi@csuse{@bidi@afterend@#1@hook}%
6413     \if@ignore}
6414   {}
6415   {\bidi@warning{%
6416     Patching '\string\end' failed!\MessageBreak
6417     '\string\bidi@AfterEndEnvironment' will not work\@gobble}}
6418
6419 \def\bidi@namedef#1{\expandafter\def\csname #1\endcsname}
6420 \def\bidi@namegdef#1{\expandafter\gdef\csname #1\endcsname}
6421 \def\bidi@nameedef#1{\expandafter\edef\csname #1\endcsname}
6422 \def\bidi@namexdef#1{\expandafter\xdef\csname #1\endcsname}
6423
6424 % From David Carlisle:
6425 % The \@stpelt redefinition below belongs to Heiko Oberdiek
6426 % See also https://github.com/ho-tex/oberdiek/issues/26
6427
6428 \let\bidi@stepcounter\stepcounter
6429 \let\bidi@stpelt\@stpelt
6430
6431 \def\@stpelt#1{%
6432   \ifcsname bidi@reset@#1@perpage\endcsname
6433     \begingroup

```



```

6434     \let\stepcounter\@bidi@stepcounter
6435     \@bidi@@stpelt{#1}%
6436     \endgroup
6437     \expandafter\@gobbletwo
6438     \fi
6439     \@bidi@@stpelt{#1}%
6440 }
6441
6442 \bidi@pretocmd\stepcounter
6443 {%
6444     \if@bidi@csundef{bidi@stepcounterhook@@#1}{%
6445         \csname bidi@stepcounterhook@@#1\endcsname
6446     }%
6447     }{%
6448         {\PackageWarning{biditools}{Patching '\string\stepcounter' failed}}
6449
6450 \chardef\bidi@backslash`\\
6451 \def\bidics#1{\texttt{\char\bidi@backslash#1}}
6452
6453 % anonymous control sequences
6454 \newcount\bidi@tempcountb
6455 \newtoks\bidi@temptoksa
6456 \newtoks\bidi@temptoksb
6457
6458 % Catcode (re)storing
6459 %
6460 \def\bidi@storecatcode#1%
6461     {\escapechar\m@ne
6462     \bidi@csarg\edef{bidi@restorecatcode\string#1}%
6463         {\catcode`\string#1=
6464         \the\catcode\expandafter`\string#1}%
6465     \catcode\expandafter`\string#1=12\relax
6466     \escapechar`\\ \relax}
6467 \def\bidi@restorecatcode#1%
6468     {\escapechar\m@ne
6469     \csname bidi@restorecatcode\string#1\endcsname
6470     \escapechar`\\ \relax}
6471
6472 % Construct a control sequence inside \edef
6473 %
6474 \def\bidi@csname#1{\expandafter\noexpand\csname#1\endcsname}
6475
6476 % Construct a control sequence out of #2, and give it to #1
6477 %
6478 \def\bidi@csarg#1#2{\expandafter#1\csname#2\endcsname}
6479
6480 % Pick an escapecharacter
6481 % this presumes that its argument is a character.
6482 %
6483 \def\bidi@pickescape#1{\ifnum`#1=\escapechar\else#1\fi}
6484
6485 % Equality of strings.
6486 % the fast approach: does not work in expansion-only environment.
6487 %

```




```

6488 \def\bid@EqualString#1#2{00\fi\def\bid@eqs@a{#1}\def\bid@eqs@b{#2}%
6489     \ifx\bid@eqs@a\bid@eqs@b}
6490
6491 % Test by expansion only
6492 %
6493 \def\bid@EqualStringX#1#2{00\fi
6494     \csname if\@bid@EqualStringX#1&#2&$\endcsname}
6495 \def\@bid@EqualStringX#1#2$#3#4${\ifx#1#3%
6496     \ifx#1&true\else\bid@hop@ES\@bid@EqualStringX#2$#4$\fi
6497     \else false\fi}
6498 \def\bid@hop@ES#1\fi#2\fi{\fi\fi#1}
6499
6500 % Lexicographic ordering
6501 % note the use of \def
6502 % also note the characters 0,127,255 that are used,
6503 % these are not supposed to appear in the strings
6504 %
6505 {\catcode0=12 \catcode255=12 \catcode127=12
6506 \gdef\bid@StringBeforeNC#1#2{00\fi
6507     \bid@CharsBefore#1^^@^^?#2^^ff^^?}
6508 \gdef\bid@CharsBeforeNC#1#2^^?#3#4^^?{%
6509     \ifcat#1\relax\def\bid@next{\bid@CharsBefore#2^^@^^?#3#4^^ff^^?}%
6510     \else\ifcat#3\relax\def\bid@next{\bid@CharsBefore#1#2^^@^^?#4^^ff^^?}%
6511     \else\ifnum\lccode`#1<\lccode`#3
6512         \def\bid@next{\csname iftrue\endcsname}%
6513     \else\ifnum\lccode`#1>\lccode`#3
6514         \def\bid@next{\csname iffalse\endcsname}%
6515     \else\def\bid@next{\bid@CharsBefore#2^^?#4^^?}%
6516     \fi \fi \fi \fi
6517     \bid@next}
6518 \gdef\bid@StringBefore#1#2{00\fi
6519     \bid@CharsBefore#1^^@^^?#2^^ff^^?}
6520 \gdef\bid@CharsBefore#1#2^^?#3#4^^?{%
6521     \ifnum`#1<`#3
6522         \def\bid@next{\csname iftrue\endcsname}%
6523     \else\ifnum`#1>`#3
6524         \def\bid@next{\csname iffalse\endcsname}%
6525     \else\def\bid@next{\bid@CharsBefore#2^^?#4^^?}%
6526     \fi\fi
6527     \bid@next}
6528 }
6529
6530 % Null argument test
6531 %
6532 \def\bid@empty{}
6533 \def\bid@ifempty#1{00\fi\expandafter\ifx\csname bid@#1@null\endcsname\bid@null}
6534 \def\bid@ifEmptyX#1{\expandafter\ifx\csname bid@#1@null\endcsname\bid@null}
6535 %\def\bid@ifEmpty#1{\def\bid@cs@a{#1}\ifx\bid@cs@a\bid@empty}
6536 \def\bid@IsEmptyList#1{00\fi\def\bid@cs@a{#1}\ifx\cs@a\bid@empty}
6537
6538 % Next character test
6539 %
6540 \def\bid@NextChar#1#2#3{00\fi
6541     \let\bid@nxt@ch#1\def\bid@nxt@a{#2}\def\bid@nxt@b{#3}%

```



```

6542 \futurelet\bidixnxt@c\@bidixifnxtc}
6543 \def\bidixifNextChar#1#2#3{%
6544 \let\bidixnxt@c#1\def\bidixnxt@a{#2}\def\bidixnxt@b{#3}%
6545 \futurelet\bidixnxt@c\@bidixifnxtc}
6546 \def\@bidixifnxtc{\ifx\bidixnxt@c\bidixnxt@c \expandafter\bidixnxt@a
6547 \else \expandafter\bidixnxt@b \fi}
6548
6549 % Test for defined-ness of string as control sequence.
6550 % works inside \edef
6551 %
6552 \def\bidixundefinedcs#1{00\fi\bidixcsarg\ifx{#1}\relax}
6553
6554 % Define uniquely defined dummy macros,
6555 % usually to serve as bumper blocks at the end of a list
6556 %
6557 \newcount\bidixdummies
6558 \def\DefNewDummy#1{
6559 \if\bidixundefinedcs{#1}\bidixcsarg\edef{#1}{\bidixdum\the\bidixdummies}
6560 \advance\bidixdummies\@ne
6561 \else
6562 \bidixerror{Attempt at second definition of `#1'}
6563 \fi}
6564
6565 % string case statement
6566 % use: \bidixswitch \iftest{...} in:
6567 % item1 action1
6568 % ...
6569 % itemn actionn
6570 % default defaultaction [optional]
6571 % \endbidixswitch
6572 % inspired by Jonathan Fine: Some Basic Control Macros
6573 % Tugboat 12 #4
6574 %
6575 \let\@bidixfi\fi \let\endbidixswitch\relax \DefNewDummy{\bidixdefault}
6576 \def\bidixswitch@exit #1 \@bidixfi #2 \endbidixswitch {\fi #1}
6577 \def\bidixswitch #1#2#3{\bidixcsarg\ifx{#2}\bidixdefault\bidixswitch@exit #3 \@bidixfi
6578 #1{#2}\bidixswitch@exit #3 \@bidixfi
6579 \bidixswitch {#1}
6580 }
6581 % this version puts the test object in {}
6582 \def\bidixoswitch #1 in: #2 #3; {\bidixcsarg\ifx{#2}\bidixdefault\bidixswitch@exit #3 \@bidixfi
6583 #1{#2}\bidixswitch@exit #3 \@bidixfi
6584 \bidixswitch #1 in:
6585 }
6586 % this version assumes that the test object is just one character
6587 \def\bidixcswitch #1 in: #2 #3; {\bidixcsarg\ifx{#2}\bidixdefault\bidixswitch@exit #3 \@bidixfi
6588 #1#2\bidixswitch@exit #3 \@bidixfi
6589 \bidixcswitch #1 in:
6590 }
6591 % this version assumes that the test object can have an optional space
6592 \def\bidixbswitch #1 in: #2 #3; {\bidixcsarg\ifx{#2}\bidixdefault\bidixswitch@exit #3 \@bidixfi
6593 #1#2 \bidixswitch@exit #3 \@bidixfi
6594 \bidixbswitch #1 in:
6595 }

```



```

6596% this version can cope with significant spaces at the start of #3;
6597% #2 is macro argument
6598\def\bidimswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \bidi@
6599 #1{#2}\bidi@switch@exit #3 \bidi@fi
6600 \bidimswitch #1 in:
6601 }
6602% idem; #2 does not have to be enclosed in braces
6603\def\bidi@fswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \bidi@
6604 #1#2 \bidi@switch@exit #3 \bidi@fi
6605 \bidi@fswitch #1 in:
6606 }
6607
6608% Routines for taking the value of a string:
6609% if the string is defined as control sequence
6610% take the value of that, otherwise take the string itself
6611
6612% String or value of control sequence
6613%
6614\def\bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else \the\csname#1\endcsname\fi}
6615
6616% String or control sequence
6617%
6618\def\bidi@ww#1{\if\bidi@undefinedcs{#1}#1\else \csname#1\endcsname \fi}
6619
6620% String or \noexpand-ed control sequence;
6621% for use in \edef
6622%
6623\newif\ifbidi@in@label
6624\def\bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else
6625 \ifbidi@in@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6626\newtoks\bidi@are@these@correct
6627\def\bidi@t@w@w#1{%
6628 \if\bidi@undefinedcs{#1}#1%
6629 \ifdefining\bidi@append@to@list\bidi@are@these@correct{#1 } \fi
6630 \else
6631 \ifin@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6632
6633% List Manipulation .....
6634% this assumes that #1 is a list of tokens, #2 is the name of a list
6635%
6636% Names of lists (and of items to pop into) are given as strings;
6637% not as control sequences.
6638%
6639\newtoks\bidi@toks@lista \newtoks\bidi@toks@listb
6640% basic append/prepend macro
6641\long\def\bidi@append@to@cslist#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6642 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter#1\the\bidi@toks@
6643 \long\def\bidi@prepend@to@cslist#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6644 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\bidi@toks@list
6645 \def\bidi@append@to@list{\bidi@csarg\bidi@append@to@cslist}
6646 \def\bidi@prepend@to@list{\bidi@csarg\bidi@prepend@to@cslist}
6647% variations:
6648\long\def\bidi@append@to@list#1#2{\bidi@append@to@list{#1}{#2}}
6649\long\def\bidi@prepend@to@list#1#2{\bidi@prepend@to@list{#1}{#2}}

```



```

6650 \def\bid@append@list@to@list#1#2{%
6651   \@bid@append@to@list{#1}{\expandafter\expandafter\expandafter}{\expandafter\the\csname#2\
6652 \def\bid@prepend@list@to@list#1#2{%
6653   \@bid@prepend@to@list{#1}{\expandafter\expandafter\expandafter}{\expandafter\the\csname#2\
6654 \def\bid@append@csl@to@csl#1#2{%
6655   \@bid@append@to@csl{#1}\expandafter{\the#2}}
6656 \def\bid@prepend@csl@to@csl#1#2{%
6657   \@bid@prepend@to@csl{#1}\expandafter{\the#2}}
6658 \def\bid@append@toks@cs@to@list#1#2{\@bid@append@to@list{#1}\expandafter{\the#2}}
6659 \def\bid@prepend@toks@cs@to@list#1#2{\@bid@prepend@to@list{#1}\expandafter{\the#2}}
6660
6661 \let\bid@willbeunhskip\unhskip
6662
6663 % A few list macros for the user
6664 \def\NewTokenList:#1 {\bid@csarg\newtoks{#1}\global\csname#1\endcsname{}}
6665 \def\EmptyTokenList:#1 {\global\csname#1\endcsname{}}
6666 \long\def\AppendToTokenList:#1=#2 {\@bid@append@to@list{#1}{#2}}
6667 \long\def\PrependToTokenList:#1=#2 {\@bid@prepend@to@list{#1}{#2}}
6668 \def\TheTokenList:#1 {\let\bid@oldwbuskip\bid@willbeunhskip \let\bid@willbeunhskip\@empty
6669   \if\bid@undefinedcs{#1}\bid@error{Token List <#1> undefined}
6670   \else\bid@csarg\the{#1}\fi
6671   \let\bid@willbeunhskip\bid@oldwbuskip}
6672
6673 \def\bid@del@tok@from@list#1#2{\begingroup
6674   \long\def\bid@cs@list#1#2#3\bid@tok@SM
6675     {\bid@toks@list#1\bid@toks@listb{#2}}%
6676     \edef\bid@cs@listb{\global\bid@csname{#1}=
6677       {\the\bid@toks@list#1\the\bid@toks@listb}}%
6678     \bid@cs@listb}%
6679     \edef\bid@cs@list#1{\noexpand\bid@cs@list#1\expandafter\the\csname#1\endcsname\noexpand
6680     \bid@cs@listb \endgroup}
6681 \def\bid@in@front@of@list#1{\bid@csarg{\let\expandafter\bid@cs@list#1}%
6682   \bid@in@front@of@csl\bid@cs@list#1}
6683 \long\def\bid@in@front@of@csl#1#2{\begingroup\bid@toks@list#1#2}%
6684   \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\bid@toks@list#1}
6685   \endgroup}
6686 \long\def\bid@local@in@front@of@list#1#2{\bid@toks@list#1#2}%
6687   \csname#1\endcsname\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
6688     {\expandafter\expandafter\expandafter\the\expandafter\expandafter\expandafter\expandafter
6689     \expandafter\the\csname#1\endcsname}%
6690   }
6691 \def\bid@set@list#1{\bid@csarg{\let\expandafter\bid@cs@list#1}%
6692   \bid@set@csl\bid@cs@list#1}
6693 \long\def\bid@set@csl#1#2{\begingroup\bid@toks@list#1#2}%
6694   \global#1=\expandafter{\the\bid@toks@list#1}\endgroup}
6695
6696 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% Stack macros
6697 %
6698 % push in terms of prepending of lists
6699 \def\bid@push@cs@onto@cs#1#2{\@bid@prepend@to@csl#1\expandafter{\expandafter\bid@push@cs@onto@cs{#1}}
6700 \def\bid@push@onto#1{\bid@csarg\bid@push@onto@cs{#1}}
6701 \def\bid@push@onto@cs#1#2{\@bid@prepend@to@csl#1}{\the#2}}
6702 \def\bid@local@push@onto#1#2{\let\bid@relax=
6703   \bid@local@in@front@of@list{#1}{\the#2}}

```



```

6704 % pop via auxiliary macro: #1 is result, #2 is stack
6705 % two cs arguments
6706 \def\pop@cs@into#1#2{\edef\pop@cs@e
6707   {\noexpand\@popinto\noexpand#1\noexpand#2\the#2\noexpand\@pop}\pop@cs@e}
6708 % two string arguments
6709 \def\pop@into#1#2{\edef\pop@cs@e
6710   {\noexpand\@popinto\pop@csname{#1}\pop@csname{#2}\pop@csarg\the{#2}\noexpand\@pop}
6711   \long\def\@popinto#1#2\#3#4\@pop{#1{#3}#2{#4}}}
6712 \def\copy@stacktop#1#2{%
6713   \edef\pop@cs@e{\noexpand\copy@stacktop
6714     {#1}\pop@csarg\the{#2}\noexpand\@pop}%
6715   \pop@cs@e}
6716 \def\@pop@copy@stacktop#1\#2#3\@pop{\csname#1\endcsname#2\relax}
6717 \newcount\pop@stack@length \newtoks\pop@empty@stack \pop@empty@stack{\{\}}
6718 \def\pop@length@of@stack#1{\pop@csarg\pop@length@of@csstack{#1}}
6719 \def\pop@length@of@csstack#1{\def\#1{\advance\pop@stack@length\@ne}%
6720   \pop@stack@length\@ne \the#1}
6721 % turn a stack upside down
6722 \def\invert@csstack#1{\pop@length@of@csstack{#1}%
6723   \pop@tempcountb\z@ \pop@temptoksa\pop@empty@stack
6724   \loop\ifnum\pop@tempcountb<\pop@stack@length
6725     \pop@pop@cs@into\pop@temptoksb#1\advance\pop@stack@length\@ne
6726     \pop@push@cs@onto@cs\pop@temptoksa\pop@temptoksb
6727     \pop@append@clist@to@clist\pop@temptoksb\pop@temptoksa% append a to b
6728     \pop@temptoksa\pop@temptoksb
6729     \repeat% copy b to a
6730   #1\pop@temptoksa \pop@temptoksa\pop@empty@toks}
6731 % invert a stack into a list
6732 \def\pop@x@stack@to@list#1{\pop@length@of@stack{#1}%
6733   \pop@tempcountb\z@ \pop@temptoksa\pop@empty@toks
6734   \loop\ifnum\pop@tempcountb<\pop@stack@length
6735     \pop@pop@into\pop@temptoksb{#1}\advance\pop@stack@length\@ne
6736     \pop@append@list@to@list\pop@temptoksb{\pop@temptoksa}\repeat
6737   \csname#1\endcsname\pop@temptoksa \pop@temptoksa\pop@empty@toks}
6738
6739
6740 % General loop macro:
6741 % \looprepeat
6742 %   \forvariable{<var>} \fromvalue{<start>} \bystep{<step>} \tovalue{<end>} \downtovalue{<end>}
6743 %   \untilcondition{<cond>} \whilecondition{<cond>}
6744 %   \doloopbody { <loop body> }
6745 % where all control sequences in between \looprepeat and \doloopbody are optional.
6746 %
6747 % var: characters to form a control sequence;
6748 %   after \forvariable{index} you can access the loop counter as \index.
6749 %   This is a count register; to print it use \number\index.
6750 % start,step,end: integers with obvious relations to the loop counter;
6751 %   start and step have a default value of 1
6752 % cond: (sequence of commands ending in) any TeX \if... test.
6753 %
6754 % Count down instead of up with \downtovalue; the increment given in \bystep
6755 % is always positive, and is added or subtracted accordingly.
6756 %
6757 % Tests: \untilcondition is evaluated at the end of the loop body; \whilecondition

```



```

6758% at the beginning of the loop body.
6759%
6760% Exit from middle of loop: \breaklooprepeat
6761% use this at any place in the loop; in case of a conditional use
6762%   \ifsomething ... \expandafter \breaklooprepeat \fi
6763%
6764% Note that the line ends do not cause spaces in the output.
6765%
6766% Technical details:
6767% The loop body is not executed in a group: the braces are those
6768% of a token list.
6769% The 'forvariable' variable is \let to a \count register.
6770
6771
6772
6773% Auxiliary stuff
6774\def\bidilooprepeat@csarg#1#2{\expandafter#1\csname#2\endcsname}
6775\def\bidilooprepeat@csromannumeral#1{\csname #1\romannumeral\bidilooprepeat@depth\endcsname}
6776\def\bidilooprepeat@csargromannumeral#1#2{\expandafter#1\csname#2\romannumeral\bidilooprepeat@depth\endcsname}
6777
6778\newcount\bidilooprepeat@depth
6779\let\endlooprepeat\relax \def\bidicsprotect{}
6780% Trace switches may later be defined by PAC_utils
6781\let\bidilooprepeat@traceinit\relax \let\bidilooprepeat@traceexit\relax
6782
6783% Main repeatloop macro
6784% - go to next level and allocate unique counter/toks if this is the
6785%   first time we visit this level
6786% - setup: gather bounds and termination conditions
6787% - scoop up body in token list; after the assignment define and
6788%   execute body
6789\def\looprepeat#1\doloopbody{\bidilooprepeat@traceinit % exit in \breakrepeatloop
6790  \advance\bidilooprepeat@depth\@ne\relax
6791  \bidilooprepeat@csargromannumeral\ifx{\bidilooprepeat@count}\relax
6792    \bidilooprepeat@csargromannumeral{\csname newcount\expandafter\endcsname}{\bidilooprepeat@depth}
6793    \bidilooprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidilooprepeat@depth}
6794    \bidilooprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidilooprepeat@depth}
6795    \bidilooprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidilooprepeat@depth}
6796  \fi \bidilooprepeat@zero \def\bidilooprepeat@sign{}\def\bidilooprepeat@comp{>}\bidilooprepeat@depth
6797  \edef\bidilooprepeat@tmp
6798    {\def\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@looprepeat}{\bidilooprepeat@depth}
6799  \afterassignment\bidilooprepeat@dxbody\bidilooprepeat@csromannumeral{\bidilooprepeat@depth}
6800
6801% Define and execute loop body
6802% This is done with an \edef to construct the actual sequence
6803\def\bidilooprepeat@dxbody{\bidilooprepeat@csargromannumeral\edef{\bidilooprepeat@body}{%
6804  \bidilooprepeat@csargromannumeral\the{\bidilooprepeat@wtest}%
6805  \noexpand\the{\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@toks}%
6806    \bidilooprepeat@csargromannumeral\the{\bidilooprepeat@utest}%
6807  \global\bidilooprepeat@csargromannumeral\advance{\bidilooprepeat@count} by \bidilooprepeat@depth}
6808  \noexpand\endlooprepeat
6809  \bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@looprepeat}}}%
6810\bidilooprepeat@csromannumeral{\bidilooprepeat@body}\ignorespaces}
6811

```



```

6812 % Stop test
6813 %% In order to stop, issue a
6814 % \breaklooprepeat which scoops up the rest of the body and exits
6815 \def\breaklooprepeat#1\endlooprepeat{\bidi@looprepeat@zero\bidi@looprepeat@csargromannumeral{bidi@
6816 \advance\bidi@looprepeat@depth\m@ne \bidi@looprepeat@traceexit
6817 }
6818
6819
6820 % Setup
6821 % gather bounds and termination conditions
6822 \def\bidi@looprepeat@setup#1{%
6823 \begingroup
6824 \def\forvariable##1{%
6825 \edef\bidi@looprepeat@tmp{%
6826 \global\let\bidi@looprepeat@csarg\noexpand{##1}\bidi@looprepeat@csromannumeral{bidi@
6827 \bidi@looprepeat@tmp}%
6828 \def\fromvalue##1{\bidi@looprepeat@csargromannumeral\global{bidi@looprepeat@count}##1\ig
6829 \def\tovalue##1{%
6830 \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{bidi@loop
6831 {bidi@looprepeat@csargromannumeral\the{bidi@looprepeat@wtest}}%
6832 \noexpand\ifnum\bidi@looprepeat@csargromannumeral\noexpand{bidi@looprepeat@count}\bi
6833 \noexpand\expandafter \noexpand\breaklooprepeat
6834 \noexpand\fi}\ignorespaces}%
6835 \bidi@looprepeat@tmp}%
6836 \def\downtovalue##1{%
6837 \gdef\bidi@looprepeat@sign{-}\gdef\bidi@looprepeat@comp{<}\tovalue{##1}\ignorespaces}%
6838 \def\bystep##1{\ifnum##1<0 \bidi@error{LOOPREPEAT: increment has to be a positive value}
6839 \bidi@looprepeat@csargromannumeral\gdef{bidi@looprepeat@inc}{-##1}\else
6840 \bidi@looprepeat@csargromannumeral\gdef{bidi@looprepeat@inc}{##1}\fi\ignoresp
6841 \def\untilcondition##1{%
6842 \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{bidi@loop
6843 {noexpand##1\relax
6844 \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6845 \bidi@looprepeat@tmp}%
6846 \def\whilecondition##1{%
6847 \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{bidi@loop
6848 {noexpand##1\relax \noexpand\else
6849 \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6850 \bidi@looprepeat@tmp}%
6851 \fromvalue{\@ne}\bystep{\@ne}#1%
6852 \endgroup}
6853 \def\bidi@looprepeat@zero
6854 {\bidi@looprepeat@csromannumeral{bidi@looprepeat@toks}{}}\bidi@looprepeat@csromannumeral{b
6855 \bidi@looprepeat@csargromannumeral\def{bidi@looprepeat@body}{}}
6856
6857 %\tracingmacros2
6858 %\newcount\tmpcount % used in some examples below
6859
6860 %\looprepeat \forvariable{i}
6861 % \bystep{2}
6862 % \doloopbody {%
6863 % \ifnum i=13 \expandafter\breaklooprepeat \fi
6864 % \number i} %
6865 %}%

```



```

6866
6867%\looprepeat \forvariable{iii}
6868%      \tovalue{8}
6869%      \doloopbody {}
6870%After loop: \number\iii%
6871
6872%\looprepeat \forvariable{i}
6873%      \fromvalue{10}
6874%      \bystep{2}
6875%      \downtovalue{0}
6876%      \doloopbody {\number\i} }
6877
6878%\looprepeat \forvariable{x} \whilecondition{\ifnum\x<7}
6879%      \doloopbody {\number\x} }
6880
6881%\looprepeat \tovalue{3} \doloopbody {Hello world! }
6882
6883%\looprepeat \forvariable{j}
6884%      \untilcondition{\tmpcount\j \divide\tmpcount by 37 \noexpand\ifnum\tmpcount=1}
6885%      \doloopbody {\number\j} }
6886
6887%\looprepeat \forvariable{i} \bystep{2} \tovalue{10} \doloopbody
6888% {\looprepeat \forvariable{j} \fromvalue{i} \bystep{3} \tovalue{18}
6889%   \doloopbody {(\number\i.\number\j) }
6890% }
6891
6892% infinite loop
6893%\looprepeat \doloopbody {}
6894
6895\ExplSyntaxOn
6896\NewDocumentCommand \bidi@AfterClass { s m o +m }
6897 {
6898   \IfBooleanTF { #1 }
6899   {
6900     \@ifclassloaded{ #2 }
6901     { #4 }
6902     {
6903       \hook_gput_code:nnn
6904       { file / #2.\@clsextension / after }
6905       { #3 }
6906       { #4 }
6907     }
6908   }
6909   {
6910     \hook_gput_code:nnn { file / #2.\@clsextension / after } { #3 } { #4 }
6911   }
6912 }
6913
6914\seq_new:N \g__biditools_input_file_seq
6915
6916\prg_new_protected_conditional:Npnn \__bidi_if_loading:n #1 { T, F, TF }
6917 {
6918   \str_set:Nx \l_tmpa_str { #1 }
6919   \seq_if_in:NxTF \g__biditools_input_file_seq { \str_use:N \l_tmpa_str }

```




```

6920     { \prg_return_true: }
6921     { \prg_return_false: }
6922   }
6923
6924 \prg_new_protected_conditional:Npnn \bidi_if_class_loaded:n #1 { T, F, TF }
6925 {
6926   \@ifclassloaded { #1 }
6927   {
6928     \__bidi_if_loading:nTF { #1.\@clsextension }
6929     { \prg_return_false: }
6930     { \prg_return_true: }
6931   }
6932   {
6933     \prg_return_false:
6934   }
6935 }
6936
6937 \prg_new_protected_conditional:Npnn \bidi_if_package_loaded:n #1 { T, F, TF }
6938 {
6939   \@ifpackageloaded { #1 }
6940   {
6941     \__bidi_if_loading:nTF { #1.\@pkgextension }
6942     { \prg_return_false: }
6943     { \prg_return_true: }
6944   }
6945   {
6946     \prg_return_false:
6947   }
6948 }
6949
6950 \NewDocumentCommand \bidi@AfterAtEndOfClass { s m o +m }
6951 {
6952   \IfBooleanTF { #1 }
6953   {
6954     \bidi_if_class_loaded:nTF { #2 }
6955     { #4 }
6956     { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6957   }
6958   {
6959     \bidi_if_class_loaded:nF
6960     { #2 }
6961     { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6962   }
6963 }
6964
6965 \NewDocumentCommand \bidi@AfterPackage { s m o +m }
6966 {
6967   \IfBooleanTF { #1 }
6968   {
6969     \@ifpackageloaded{ #2 }
6970     { #4 }
6971     {
6972       \hook_gput_code:nnn
6973       { file / #2.\@pkgextension / after }

```



```

6974         { #3 }
6975         { #4 }
6976     }
6977 }
6978 {
6979     \hook_gput_code:nnn { file / #2.\@pkgextension / after } { #3 } { #4 }
6980 }
6981 }
6982
6983 \NewDocumentCommand \bidi@AfterAtEndOfPackage { s m o +m }
6984 {
6985     \IfBooleanTF { #1 }
6986     {
6987         \bidi_if_package_loaded:nTF { #2 }
6988         { #4 }
6989         { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6990     }
6991     {
6992         \bidi_if_package_loaded:nF
6993         { #2 }
6994         { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6995     }
6996 }
6997
6998 \clist_new:N \l__biditools_package_clist
6999 \msg_new:nnn { biditools } { cannot-prevent-for-already-loaded-package }
7000 {
7001     Can-not-prevent-package-`#1'-from-being-loaded,~
7002     since-it-has-been-loaded-already-before-line~\msg_line_number:
7003 }
7004 \clist_new:N \g__biditools_prevent_clist
7005
7006 \NewDocumentCommand \bidi@PreventPackageFromLoading { s +o m }
7007 {
7008     \clist_set:Nx \l__biditools_package_clist { #3 }
7009     \clist_map_inline:Nn \l__biditools_package_clist
7010     {
7011         \@ifpackageloaded { ##1 }
7012         {
7013             \IfBooleanTF { #1 } { \msg_info:nnn } { \msg_warning:nnn }
7014             { biditools } { cannot-prevent-for-already-loaded-package } { ##1 }
7015         }
7016         {
7017             \clist_if_in:NnF \g__biditools_prevent_clist { ##1 }
7018             { \clist_gput_right:Nn \g__biditools_prevent_clist { ##1 } }
7019             \tl_if_exist:cF { g__biditools_exclude_package_##1_tl }
7020             {
7021                 \tl_new:c { g__biditools_exclude_package_##1_tl }
7022             }
7023             \IfValueT { #2 }
7024             {
7025                 \tl_gput_right:cn { g__biditools_exclude_package_##1_tl } { #2 }
7026             }
7027             \disable@package@load { ##1 }

```



```

7028         { \tl_use:c { g__biditools_exclude_package_##1_tl } }
7029     }
7030 }
7031 \clist_clear:N \l__biditools_package_clist
7032 }
7033
7034 \NewDocumentCommand \bidi@ResetPreventPackageFromLoading {}
7035 {
7036     \clist_map_function:NN \g__biditools_prevent_clist \reenable@package@load
7037     \clist_gclear:N \g__biditools_prevent_clist
7038 }
7039
7040 \NewDocumentCommand \bidi@StorePreventPackageFromLoading { m }
7041 { \edef #1 { \clist_use:Nn \g__biditools_prevent_clist { , } } }
7042
7043 \NewDocumentCommand \bidi@UnPreventPackageFromLoading { s m }
7044 {
7045     \clist_set:Nx \l__biditools_package_clist { #2 }
7046     \clist_map_inline:Nn \l__biditools_package_clist
7047     {
7048         \clist_if_in:NnT \g__biditools_prevent_clist { ##1 }
7049         {
7050             \clist_gremove_all:Nn \g__biditools_prevent_clist { ##1 }
7051             \reenable@package@load { ##1 }
7052             \IfBooleanT { #1 }
7053             { \cs_undefine:c { g__biditools_exclude_package_##1_tl } }
7054         }
7055     }
7056 }
7057
7058 \NewDocumentCommand \bidi@BeforeClosingMainAux { o m }
7059 {
7060     \hook_gput_code:nnn { enddocument / afterlastpage } { #1 }
7061     {
7062         \debug_suspend:
7063         \RenewDocumentCommand \bidi@BeforeClosingMainAux { m } { ##1 }
7064         \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
7065         \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
7066         #2
7067         \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn
7068         \debug_resume:
7069     }
7070 }
7071
7072 \NewDocumentCommand \bidi@AfterReadingMainAux { o m }
7073 {
7074     \hook_gput_code:nnn { enddocument / afteraux } { #1 }
7075     {
7076         \debug_suspend:
7077         \RenewDocumentCommand \bidi@AfterReadingMainAux { m } { ##1 }
7078         \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
7079         \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
7080         #2
7081         \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn

```



```

7082         \debug_resume:
7083     }
7084 }
7085
7086 \clist_new:N \l__biditools_file_patch_clist
7087
7088 \NewDocumentCommand \ApplyPatchToFiles { m O{def} O{bidi} }
7089 {
7090     \clist_set:Nx \l__biditools_file_patch_clist { #1 }
7091     \clist_map_inline:Nn \l__biditools_file_patch_clist
7092     {
7093         \ApplyPatchToFile { ##1 } [ #2 ] [ #3 ]
7094     }
7095     \clist_clear:N \l__biditools_file_patch_clist
7096 }
7097
7098 \clist_new:N \l__biditools_package_patch_clist
7099
7100 \NewDocumentCommand \ApplyPatchToPackages { m O{bidi} }
7101 {
7102     \clist_set:Nx \l__biditools_package_patch_clist { #1 }
7103     \clist_map_inline:Nn \l__biditools_package_patch_clist
7104     {
7105         \ApplyPatchToPackage { ##1 } [ #2 ]
7106     }
7107     \clist_clear:N \l__biditools_package_patch_clist
7108 }
7109
7110 \clist_new:N \l__biditools_class_patch_clist
7111
7112 \NewDocumentCommand \ApplyPatchToClasses { m O{bidi} }
7113 {
7114     \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7115     \clist_map_inline:Nn \l__biditools_class_patch_clist
7116     {
7117         \ApplyPatchToClass { ##1 } [ #2 ]
7118     }
7119     \clist_clear:N \l__biditools_class_patch_clist
7120 }
7121
7122 \ExplSyntaxOff
7123
7124 \newcommand*{\bidi@ReplaceInput}{\declare@file@substitution}
7125 \newcommand*{\bidi@UnReplaceInput}
7126 {\undeclare@file@substitution}
7127 \newcommand*{\bidi@ReplacePackage}[2]{%
7128   \declare@file@substitution{#1.\@pkgextension}{#2.\@pkgextension}%
7129 }
7130 \newcommand*{\bidi@UnReplacePackage}[1]{%
7131   \undeclare@file@substitution{#1.\@pkgextension}%
7132 }
7133 \newcommand*{\bidi@ReplaceClass}[2]{%
7134   \declare@file@substitution{#1.\@clsextension}{#2.\@clsextension}%
7135 }

```



```

7136 \newcommand*{\bidi@UnReplaceClass}[1]{%
7137   \undecore@file@substitution{#1.\@clsextension}%
7138 }
7139 \newcommand*{\bidi@BeforeFile}[1]{%
7140   \AddToHook{file/#1/before}%
7141 }
7142 \newcommand*{\bidi@AfterFile}[1]{%
7143   \AddToHook{file/#1/after}%
7144 }
7145 \newcommand*{\bidi@BeforeClass}[1]{%
7146   \bidi@BeforeFile{#1.\@clsextension}%
7147 }
7148 \newcommand*{\bidi@BeforePackage}[1]{%
7149   \bidi@BeforeFile{#1.\@pkgextension}%
7150 }
7151
7152 \long\def\bidi@protected@immediate@write#1#2#3{%
7153   \begingroup
7154     #2%
7155     \let\protect\@unexpandable@protect
7156     \edef\reserved@a{\immediate\write#1{#3}}%
7157     \reserved@a
7158   \endgroup
7159   \if@nobreak\ifvmode\nobreak\fi\fi
7160 }
7161
7162 \def\bidi@patch@BeforePackage#1{%
7163   \@ifpackageloaded{#1}{%
7164     \@firstofone
7165   }{%
7166     \AddToHook{package/#1/before}%
7167   }%
7168 }
7169
7170 \def\bidi@patch@AfterPackage#1{%
7171   \@ifpackageloaded{#1}{%
7172     \@firstofone
7173   }{%
7174     \AddToHook{package/#1/after}%
7175   }%
7176 }
7177
7178 \def\bidi@patch@AfterFile#1{%
7179   \IfFileLoadedTF{#1}{%
7180     \@firstofone
7181   }{%
7182     \AddToHook{file/#1/after}%
7183   }%
7184 }
7185
7186 \NewDocumentCommand \ApplyPatchToFile { m O{def} O{bidi} }
7187 {
7188   \bidi@patch@AfterFile{#1.#2}{%
7189     \ifnum\catcode`\@=11

```



```

7190         \input{#1-xetex-#3.def}%
7191     \else
7192         \bidi@storecatcode\@
7193         \makeatletter
7194         \input{#1-xetex-#3.def}%
7195         \bidi@restorecatcode\@
7196     \fi
7197 }%
7198 }
7199
7200 \NewDocumentCommand \ApplyPatchCodeToFile { m +m O{def} }
7201 {
7202     \bidi@patch@AfterFile{#1.#3}{#2}%
7203 }
7204
7205 \NewDocumentCommand \ApplyPatchToFilesIfPackageLoadedF { m m O{def} O{bidi} }
7206 {
7207     \AddToHook{begindocument/before}{%
7208         \IfPackageLoadedF{#1}{%
7209             \ApplyPatchToFiles{#2}[#3][#4]%
7210         }%
7211     }
7212 }
7213
7214 \NewDocumentCommand \ApplyPatchToClassIfPackageLoadedF { m m O{bidi} }
7215 {
7216     \AddToHook{begindocument/before}{%
7217         \IfPackageLoadedF{#2}{%
7218             \ifnum\catcode`\@=11
7219                 \@ifclassloaded{#1}{%
7220                     \input{#1-xetex-#3.def}%
7221                 }{%
7222                     \else
7223                     \bidi@storecatcode\@
7224                     \makeatletter
7225                     \@ifclassloaded{#1}{%
7226                         \input{#1-xetex-#3.def}%
7227                     }{%
7228                         \bidi@restorecatcode\@
7229                     }
7230                 }%
7231             }
7232         }
7233     }
7234 \NewDocumentCommand \ApplyPatchToPackageIfPackageLoadedF { m m O{bidi} }
7235 {
7236     \AddToHook{begindocument/before}{%
7237         \IfPackageLoadedF{#2}{%
7238             \IfPackageLoadedT{#1}{%
7239                 \ifnum\catcode`\@=11
7240                     \input{#1-xetex-#3.def}%
7241                 \else
7242                 \bidi@storecatcode\@
7243                 \makeatletter

```



```

7244         \input{#1-xetex-#3.def}%
7245         \bidi@restorecatcode\@
7246     \fi
7247 }%
7248 }%
7249 }
7250 }
7251
7252 \NewDocumentCommand \ApplyPatchIfPackageLoaded { m +m +m }
7253 {
7254     \AddToHook{begindocument/before}{%
7255         \ifnum\catcode`\@=11
7256             \@ifpackageloaded{#1}{#2}{#3}%
7257         \else
7258             \bidi@storecatcode\@
7259             \makeatletter
7260             \@ifpackageloaded{#1}{#2}{#3}%
7261             \bidi@restorecatcode\@
7262         \fi
7263     }
7264 }
7265
7266 \NewDocumentCommand \ApplyPatchIfPackageLoadedT { m +m }
7267 {
7268     \ApplyPatchIfPackageLoaded{#1}{#2}{}%
7269 }
7270
7271 \NewDocumentCommand \ApplyPatchIfPackageLoadedF { m +m }
7272 {
7273     \ApplyPatchIfPackageLoaded{#1}{}{#2}%
7274 }
7275
7276 \NewDocumentCommand \ApplyPatchToPackage { m O{bidi} }
7277 {
7278     \bidi@patch@AfterPackage{#1}{\input{#1-xetex-#2.def}}%
7279 }
7280
7281 \NewDocumentCommand \ApplyPatchCodeBeforePackage { m +m }
7282 {
7283     \bidi@patch@BeforePackage{#1}{#2}%
7284 }
7285
7286 \NewDocumentCommand \ApplyPatchCodeToPackage { m +m }
7287 {
7288     \bidi@patch@AfterPackage{#1}{#2}%
7289 }
7290
7291 \NewDocumentCommand \ApplyPatchToClass { m O{bidi} }
7292 {
7293     \@ifclassloaded{#1}{\input{#1-xetex-#2.def}}{}%
7294 }

```

53 File biditytfloat.sty



```

7295 \NeedsTeXFormat{LaTeX2e}
7296 \ProvidesPackage{bidituftefloat}[2025/01/03 v0.3
7297 bidi implementation of tufte float]
7298 \RequirePackage{xifthen}
7299 \newcommand{\@bidituftefloat@pkgname}{bidituftefloat}
7300 \newcommand{\@bidituftefloat@error}[2]{\PackageError{\@bidituftefloat@pkgname}{#1}{#2}}
7301 \newcommand{\@bidituftefloat@debuginfo}[1]{\ifthenelse{\boolean{@bidituftefloat@debug}}{\bid
7302 \newcommand{\@bidituftefloat@info}[1]{\PackageInfo{\@bidituftefloat@pkgname}{#1@gobble}}
7303 \newboolean{@bidituftefloat@reversegeometry}
7304 \setboolean{@bidituftefloat@reversegeometry}{false}
7305 \DeclareOption{reversegeometry}{\setboolean{@bidituftefloat@reversegeometry}{true}}
7306 \newboolean{@bidituftefloat@a4paper}
7307 \DeclareOption{a4paper}{\setboolean{@bidituftefloat@a4paper}{true}}
7308 \newboolean{@bidituftefloat@b5paper}
7309 \DeclareOption{b5paper}{\setboolean{@bidituftefloat@b5paper}{true}}
7310 \newboolean{@bidituftefloat@symmetric}
7311 \newboolean{@bidituftefloat@twoside}
7312 \DeclareOption{twoside}{%
7313 \@twoside true \mparswitch true%
7314 \setboolean{@bidituftefloat@twoside}{true}%
7315 \setboolean{@bidituftefloat@symmetric}{true}%
7316 }
7317 \DeclareOption{oneside}{%
7318 \@twoside false \mparswitch false%
7319 \setboolean{@bidituftefloat@twoside}{false}%
7320 \setboolean{@bidituftefloat@symmetric}{false}%
7321 }
7322 \IfClassLoadedT{book}{\ExecuteOptions{twoside}}
7323 \newboolean{@bidituftefloat@debug}
7324 \newcommand*{\@bidituftefloat@caption@justification}{\@bidituftefloat@justification@autodete
7325 \ProcessOptions
7326 %% Globally sets the length
7327 \newcommand*{\gsetlength}[2]{%
7328 \setlength{#1}{#2}%
7329 \global#1=#1\relax%
7330 }
7331
7332 %% Set the font sizes and baselines to match bidituftefloat's books
7333 \renewcommand\normalsize{%
7334 \setfontsize\normalsize\@xpt{14}%
7335 \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
7336 \abovedisplayshortskip \z@ \@plus3\p@
7337 \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
7338 \belowdisplayskip \abovedisplayskip
7339 \let\@listi\@listI}
7340 \normalbaselineskip=14pt
7341 \normalsize
7342 \renewcommand\footnotesize{%
7343 \setfontsize\footnotesize\@viipt{10}%
7344 \abovedisplayskip 6\p@ \@plus2\p@ \@minus4\p@
7345 \abovedisplayshortskip \z@ \@plus\p@
7346 \belowdisplayshortskip 3\p@ \@plus\p@ \@minus2\p@
7347 \def\@listi{\leftmargin\leftmarginI
7348 \topsep 3\p@ \@plus\p@ \@minus\p@

```




```

7349             \parsep 2\p@ \@plus\p@ \@minus\p@
7350             \itemsep \parsep}%
7351     \belowdisplayskip \abovedisplayskip
7352 }
7353 %% Paragraph indentation and separation for marginal text
7354 \newcommand{\@biditytfloat@margin@par}{%
7355     \setlength{\RaggedRightParindent}{0.5pc}%
7356     \setlength{\JustifyingParindent}{0.5pc}%
7357     \setlength{\parindent}{0.5pc}%
7358     \setlength{\parskip}{0pt}%
7359 }
7360 \RequirePackage{ragged2e}
7361 \ifthenelse{\boolean{@biditytfloat@reversegeometry}}{%
7362 \RequirePackage[letterpaper,right=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpar
7363 \ifthenelse{\boolean{@biditytfloat@a4paper}}{
7364     {\geometry{a4paper,right=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpar
7365     }}
7366 \ifthenelse{\boolean{@biditytfloat@b5paper}}{
7367     {\geometry{paperwidth=176mm,paperheight=250mm,right=14.66mm,top=13.88mm,textwidth=102.66mm,
7368     }}}{%
7369 \RequirePackage[letterpaper,left=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpar
7370 \ifthenelse{\boolean{@biditytfloat@a4paper}}{
7371     {\geometry{a4paper,left=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpar
7372     }}
7373 \ifthenelse{\boolean{@biditytfloat@b5paper}}{
7374     {\geometry{paperwidth=176mm,paperheight=250mm,left=14.66mm,top=13.88mm,textwidth=102.66mm,
7375     }}
7376 \ifthenelse{\boolean{@biditytfloat@symmetric}}{
7377     {}
7378     {\geometry{asymmetric}}}% forces internal LaTeX `twoside'
7379 \setlength{\marginparpush}{10pt}
7380 %% Font for margin items
7381 \newcommand{\@biditytfloat@marginfont}{\normalfont\footnotesize}
7382 \newcommand*{\@biditytfloat@captionfont}{\@biditytfloat@marginfont}
7383 \newcommand*{\setcaptionfont}[1]{\renewcommand*{\@biditytfloat@captionfont}{#1}}
7384 \newcommand{\@biditytfloat@justification}{\justifying}%
7385 \setlength{\abovedisplayskip}{6pt plus 2pt minus 4pt}
7386 \setlength{\belowdisplayskip}{6pt plus 2pt minus 4pt}
7387 \newboolean{@biditytfloat@changepage}
7388 \IfFileExists{changepage.sty}{%
7389     \biditytfloatDebugInfoNL{Found changepage.sty}
7390     \RequirePackage[strict]{changepage}
7391     \setboolean{@biditytfloat@changepage}{true}
7392 }{%
7393     \biditytfloatDebugInfoNL{Found chngpage.sty}
7394     \RequirePackage[strict]{chngpage}
7395     \setboolean{@biditytfloat@changepage}{false}
7396 }
7397 \newboolean{@biditytfloat@odd@page}
7398 \setboolean{@biditytfloat@odd@page}{true}
7399 \newcommand*{\@biditytfloat@checkoddpaper}{%
7400     \checkoddpaper%
7401     \ifthenelse{\boolean{@biditytfloat@changepage}}{%
7402         \ifoddpaper%

```



```

7403     \setboolean{@bidituftefloat@odd@page}{true}%
7404     \else%
7405         \setboolean{@bidituftefloat@odd@page}{false}%
7406     \fi%
7407 }{%
7408     \ifcoddpage%
7409         \setboolean{@bidituftefloat@odd@page}{true}%
7410     \else%
7411         \setboolean{@bidituftefloat@odd@page}{false}%
7412     \fi%
7413 }%
7414 }
7415 \newlength{@@bidituftefloat@overhang}% used by the fullwidth environment and the running head
7416 \newlength{@@bidituftefloat@fullwidth}
7417 \newlength{@@bidituftefloat@caption@fill}
7418 \newcommand{@@bidituftefloatRecalculate}{%
7419     \setlength{@@bidituftefloat@overhang}{\marginparwidth}
7420     \addtolength{@@bidituftefloat@overhang}{\marginparsep}
7421
7422     \setlength{@@bidituftefloat@fullwidth}{\textwidth}
7423     \addtolength{@@bidituftefloat@fullwidth}{\marginparsep}
7424     \addtolength{@@bidituftefloat@fullwidth}{\marginparwidth}
7425
7426     \setlength{@@bidituftefloat@caption@fill}{\textwidth}
7427     \addtolength{@@bidituftefloat@caption@fill}{\marginparsep}
7428 }
7429 \AtBeginDocument{@@bidituftefloatRecalculate}
7430 \RequirePackage{optparams}% provides multiple optional arguments for commands
7431 \RequirePackage{placeins}
7432 \newsavebox{@@bidituftefloat@margin@floatbox}
7433 \newenvironment{@@bidituftefloat@margin@float}[2][-1.2ex]%
7434 { \FloatBarrier% process all floats before this point so the figure/table numbers stay in o
7435   \begin{lrbox}{@@bidituftefloat@margin@floatbox}%
7436   \begin{minipage}{\marginparwidth}%
7437       \@bidituftefloat@caption@font%
7438       \def\capttype{#2}%
7439       \hbox{} \vspace*{#1}%
7440       \@bidituftefloat@caption@justification%
7441       \@bidituftefloat@margin@par%
7442       \noindent%
7443   }
7444   {\end{minipage}%
7445   \end{lrbox}%
7446   \marginpar{\usebox{@@bidituftefloat@margin@floatbox}}%
7447 }
7448 \newenvironment{marginfigure}[1][-1.2ex]%
7449 { \begin{@@bidituftefloat@margin@float}[#1]{figure}}
7450 { \end{@@bidituftefloat@margin@float}}
7451 \newenvironment{margintable}[1][-1.2ex]%
7452 { \begin{@@bidituftefloat@margin@float}[#1]{table}}
7453 { \end{@@bidituftefloat@margin@float}}
7454 \newcommand*{@@bidituftefloat@justification@autodetect}{\justifying}%
7455
7456 \newcommand{@@bidituftefloat@float@debug@info}{}% contains debug info generated as the float

```



```

7457 \newcommand{\@biditytfloat@float@debug}[1]{% adds debug info to the queue for output
7458 \ifthenelse{\equal{\@biditytfloat@float@debug@info}{}}{%
7459 {\def\@biditytfloat@float@debug@info{#1}}%
7460 {\g@addto@macro\@biditytfloat@float@debug@info{\MessageBreak#1}}%
7461 }
7462 \newcommand{\floatalignment}{x}% holds the current float alignment (t, b, h, p)
7463 \newcommand{\setfloatalignment}[1]{\global\def\floatalignment{#1}\@biditytfloat@float@debug{
7464 \newboolean{\@biditytfloat@float@recto}
7465 \newcommand{\forcerectofloat}{\GlobalSetBoolean{\@biditytfloat@float@recto}{true}}\@bidityt
7466 \newcommand{\forceversofloat}{\GlobalSetBoolean{\@biditytfloat@float@recto}{false}}\@bidityt
7467 \newsavebox{\@biditytfloat@figure@box}
7468 \newsavebox{\@biditytfloat@caption@box}
7469 \let\@biditytfloat@orig@float\@float
7470 \let\@biditytfloat@orig@endfloat\endfloat
7471 \newlength{\@biditytfloat@caption@vertical@offset}
7472 \setlength{\@biditytfloat@caption@vertical@offset}{0pt}
7473 \newcommand{\@biditytfloat@stored@shortcaption}{%
7474 \newcommand{\@biditytfloat@stored@caption}{%
7475 \newcommand{\@biditytfloat@stored@label}{%
7476 \long\def\@biditytfloat@caption[#1][#2]#3{%
7477 \ifthenelse{\isempty{#1}}{%
7478 {\gdef\@biditytfloat@stored@shortcaption{#3}}%
7479 {\gdef\@biditytfloat@stored@shortcaption{#1}}%
7480 \gsetlength{\@biditytfloat@caption@vertical@offset}{-#2}% we want a positive offset to l
7481 \gdef\@biditytfloat@stored@caption{#3}%
7482 }
7483 \newcommand{\@biditytfloat@label}[1]{%
7484 \gdef\@biditytfloat@stored@label{#1}%
7485 }
7486 \newcommand{\@biditytfloat@fps}{%
7487 \newboolean{\@biditytfloat@float@star}
7488 \newlength{\@biditytfloat@float@contents@width}
7489 \newenvironment{\@biditytfloat@float}[3][htbp]{%
7490 {% begin \@biditytfloat@float
7491 % Should this float be full-width or just text-width?
7492 \ifthenelse{\equal{#3}{star}}{%
7493 {\GlobalSetBoolean{\@biditytfloat@float@star}{true}}%
7494 {\GlobalSetBoolean{\@biditytfloat@float@star}{false}}%
7495 % Check page side (recto/verso) and store detected value -- can be overridden in environm
7496 \@biditytfloat@checkoddpage%
7497 \ifthenelse{\boolean{\@biditytfloat@odd@page}}{%
7498 {\GlobalSetBoolean{\@biditytfloat@float@recto}{true}}\@biditytfloat@float@debug{Dete
7499 {\GlobalSetBoolean{\@biditytfloat@float@recto}{false}}\@biditytfloat@float@debug{Det
7500 % If the float placement specifier is 'b' and only 'b', then bottom-align the mini-pages
7501 \renewcommand{\@biditytfloat@fps}{#1}%
7502 \@biditytfloat@float@debug{Allowed positions: [ #1 ]}%
7503 \ifthenelse{\equal{#1}{b}\OR\equal{#1}{B}}{%
7504 {\renewcommand{\floatalignment}{b}}\@biditytfloat@float@debug{Presumed position: [bot
7505 {\renewcommand{\floatalignment}{t}}\@biditytfloat@float@debug{Presumed position: [top
7506 % Capture the contents of the \caption and \label commands to use later
7507 \global\let\@biditytfloat@orig@caption\caption%
7508 \global\let\@biditytfloat@orig@label\label%
7509 \renewcommand{\caption}{\optparams{\@biditytfloat@caption}{[ ] [Opt]}}%
7510 \renewcommand{\label}[1]{\@biditytfloat@label{##1}}%

```



```

7511 % Handle subfigure package compatibility
7512 \ifthenelse{\boolean{@biditytfloat@packages@subfigure}}{%
7513   \biditytfloat@patchcmd{\subfigure}{%
7514     \let\subfig@oldlabel=\label
7515   }{%
7516     \let\subfig@oldlabel=\@biditytfloat@orig@label
7517   }
7518   {}
7519   {}
7520   \let\subtable=\subfigure
7521 }{}% subfigure package is not loaded
7522 \@biditytfloat@orig@float{#2}[#1]%
7523 \ifthenelse{\boolean{@biditytfloat@float@star}}{%
7524   {\setlength{\@biditytfloat@float@contents@width}{\@biditytfloat@fullwidth}}%
7525   {\setlength{\@biditytfloat@float@contents@width}{\textwidth}}%
7526 \begin{lrbox}{\@biditytfloat@figure@box}%
7527   \begin{minipage}[\floatalignment]{\@biditytfloat@float@contents@width}\hbox{%
7528 }{}% end @biditytfloat@float
7529   \par\hbox{}\vspace{-\baselineskip}\ifthenelse{\prevdepth>0}{\vspace{-\prevdepth}}{}% a
7530   \end{minipage}%
7531 \end{lrbox}%
7532 % build the caption box
7533 \begin{lrbox}{\@biditytfloat@caption@box}%
7534   \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{%
7535     \ifthenelse{\NOT\equal{\@biditytfloat@stored@caption}}{\@biditytfloat@orig@cap
7536     \ifthenelse{\NOT\equal{\@biditytfloat@stored@label}}{\@biditytfloat@orig@label
7537     \par\vspace{-\prevdepth}}% TODO: DOUBLE-CHECK FOR SAFETY
7538   \end{minipage}%
7539 \end{lrbox}%
7540 % now typeset the stored boxes
7541 \begin{fullwidth}%
7542   \begin{minipage}[\floatalignment]{\linewidth}%
7543     \ifthenelse{\boolean{@biditytfloat@float@star}}%
7544       {\@biditytfloat@float@fullwidth[\@biditytfloat@caption@vertical@offset]{\@bidi
7545       {\@biditytfloat@float@textwidth[\@biditytfloat@caption@vertical@offset]{\@bidi
7546     \end{minipage}%
7547   \end{fullwidth}%
7548   \@biditytfloat@orig@endfloat% end original LaTeX float environment
7549 % output debug info
7550 \ifthenelse{\boolean{@biditytfloat@debug}}{%
7551   \typeout{^^J^^J----- biditytfloat package float information -----}%
7552   \ifthenelse{\equal{\@biditytfloat@stored@label}}{}%
7553     {\typeout{Warning: Float unlabeled!}}%
7554     {\typeout{Float label: [\@biditytfloat@stored@label]}}%
7555   \typeout{Page number: [\thepage]}%
7556   \def\MessageBreak{^^J}%
7557   \typeout{\@biditytfloat@float@debug@info}%
7558   \ifthenelse{\boolean{@biditytfloat@symmetric}}%
7559     {\typeout{Symmetric: [true]}}%
7560     {\typeout{Symmetric: [false]}}%
7561   \typeout{-----^^J^^J}%
7562 }{}%
7563 % reset commands and temp boxes and captions
7564 \gdef\@biditytfloat@float@debug@info{}%

```



```

7565 \let\caption\@biditytffloat@orig@caption%
7566 \let\label\@biditytffloat@orig@label%
7567 \begin{lrbox}{\@biditytffloat@figure@box}\hbox{}\end{lrbox}%
7568 \begin{lrbox}{\@biditytffloat@caption@box}\hbox{}\end{lrbox}%
7569 \gdef\@biditytffloat@stored@shortcaption{}%
7570 \gdef\@biditytffloat@stored@caption{}%
7571 \gdef\@biditytffloat@stored@label{}%
7572 \gsetlength{\@biditytffloat@caption@vertical@offset}{0pt}% reset caption offset
7573 }
7574 \newcommand{\@biditytffloat@float@textwidth}[3][Opt]{%
7575 \ifthenelse{NOT\boolean{@biditytffloat@symmetric}}OR\boolean{@biditytffloat@float@recto
7576 % asymmetric or page is odd, so caption is on the right
7577 \hbox{%
7578 \usebox{#2}%
7579 \hspace{\marginparsep}%
7580 \smash{\raisebox{#1}{\usebox{#3}}}%
7581 }
7582 \@biditytffloat@float@debug{Caption position: [right]}%
7583 }{% symmetric pages and page is even, so caption is on the left
7584 \hbox{%
7585 \smash{\raisebox{#1}{\usebox{#3}}}%
7586 \hspace{\marginparsep}%
7587 \usebox{#2}%
7588 }
7589 \@biditytffloat@float@debug{Caption position: [left]}%
7590 }%
7591 }
7592 \newcommand{\@biditytffloat@float@fullwidth}[3][Opt]{%
7593 \ifthenelse{equal{\floatalignment}{b}}{%
7594 {% place caption above figure
7595 \ifthenelse{NOT\boolean{@biditytffloat@symmetric}}OR\boolean{@biditytffloat@float@r
7596 {\hfill\smash{\raisebox{#1}{\usebox{#3}}}\par\usebox{#2}\@biditytffloat@float@debug
7597 {\smash{\raisebox{#1}{\usebox{#3}}}\hfill\par\usebox{#2}\@biditytffloat@float@debug
7598 }{% place caption below figure
7599 \ifthenelse{NOT\boolean{@biditytffloat@symmetric}}OR\boolean{@biditytffloat@float@r
7600 {\usebox{#2}\par\hfill\smash{\raisebox{#1}{\usebox{#3}}}\@biditytffloat@float@debug
7601 {\usebox{#2}\par\smash{\raisebox{#1}{\usebox{#3}}}\hfill\@biditytffloat@float@debug
7602 }%
7603 }
7604 \renewenvironment{figure}[1][htbp]%
7605 {\ifvmode\else\unskip\fi\begin{@biditytffloat@float}[#1]{figure}{}}
7606 {\end{@biditytffloat@float}}
7607 \renewenvironment{table}[1][htbp]
7608 {\ifvmode\else\unskip\fi\begin{@biditytffloat@float}[#1]{table}{}}
7609 {\end{@biditytffloat@float}}
7610 \renewenvironment{figure*}[1][htbp]%
7611 {\ifvmode\else\unskip\fi\begin{@biditytffloat@float}[#1]{figure}{star}}
7612 {\end{@biditytffloat@float}}
7613 \renewenvironment{table*}[1][htbp]%
7614 {\ifvmode\else\unskip\fi\begin{@biditytffloat@float}[#1]{table}{star}}
7615 {\end{@biditytffloat@float}}
7616 \newenvironment{fullwidth}
7617 {\ifthenelse{\boolean{@biditytffloat@symmetric}}%
7618 {\ifthenelse{\boolean{@biditytffloat@changepage}}{\begin{adjustwidth*}{- \@biditytffloat@

```



```

7619     {\begin{adjustwidth}{-}\@bituftefloat@overhang}}%
7620 }%
7621 {\ifthenelse{\boolean{@bituftefloat@symmetric}}%
7622   {\ifthenelse{\boolean{@bituftefloat@changepage}}{\end{adjustwidth*}}{\end{adjustwidth}}%
7623   {\end{adjustwidth}}}%
7624 }
7625 \long\def\@caption#1[#2]#3{%
7626   \par%
7627   \addcontentsline{\csname ext@#1\endcsname}{#1}%
7628   {\protect\numberline{\csname the#1\endcsname}{\ignorespaces #2}}%
7629   \begingroup%
7630     \parboxrestore%
7631     \if@minipage%
7632       \setminipage%
7633       \fi%
7634     \@bituftefloat@caption@font\@bituftefloat@caption@justification%
7635     \noindent\csname fnum@#1\endcsname: \ignorespaces#3\par%
7636     %\@makecaption{\csname fnum@#1\endcsname}{\ignorespaces #3}\par
7637   \endgroup}
7638 %%
7639 % Turns newlines into spaces. Based on code from the `titlesec' package.
7640 \DeclareRobustCommand{\@bitufteheading@newlinetospace}{%
7641   \@ifstar{\@bitufteheading@newlinetospace@i}{\@bitufteheading@newlinetospace@i}%
7642 }
7643 \def\@bitufteheading@newlinetospace@i{%
7644   \ifdim\lastskip>\z@else\space\fi
7645   \ignorespaces%
7646 }
7647 \DeclareRobustCommand{\newlinetospace}[1]{%
7648   \let\@bitufteheading@orig@cr\\% save the original meaning of \\
7649   \def\\{\@bitufteheading@newlinetospace}% turn \\ and \\* into \space
7650   \let\newline\\% turn \newline into \space
7651   #1%
7652   \let\\\\@bitufteheading@orig@cr% revert to original meaning of \\
7653 }
7654 \RequirePackage{fancyhdr}
7655 \pagestyle{fancy}
7656 \AtBeginDocument{%
7657   \ifthenelse{\boolean{@bituftefloat@symmetric}}
7658     {\fancyhfoffset[LE,RO]{\@bituftefloat@overhang}}
7659     {\fancyhfoffset[RE,RO]{\@bituftefloat@overhang}}
7660 }
7661 % The running heads/feet don't have rules
7662 \renewcommand{\headrulewidth}{0pt}
7663 \renewcommand{\footrulewidth}{0pt}
7664 % The 'fancy' page style is the default style for all pages.
7665 \fancyhf{} % clear header and footer fields
7666   \ifthenelse{\boolean{@bituftefloat@symmetric}}
7667     {\fancyhead[LE]{\thepage\quad\textsl{\newlinetospace{\plainauthor}}}%
7668     \fancyhead[RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7669     {\fancyhead[RE,RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7670 % The 'plain' page style is used on chapter opening pages.
7671 % In Tufte's /Beautiful Evidence/ he never puts page numbers at the
7672 % bottom of pages -- the folios are unexpressed.

```



```

7673 \fancypagestyle{plain}{
7674   \fancyhf{} % clear header and footer fields
7675   % Uncomment the following five lines of code if you want the opening page
7676   % of the chapter to express the folio in the lower outside corner.
7677   % \ifthenelse{\boolean{@bidituftefloat@symmetric}}{
7678   %   {\fancyfoot[LE,RO]{\thepage}}
7679   %   {\fancyfoot[RE,RO]{\thepage}}
7680 }
7681 % The 'empty' page style suppresses all headers and footers.
7682 % It's used on title pages and 'intentionally blank' pages.
7683 \fancypagestyle{empty}{
7684   \fancyhf{} % clear header and footer fields
7685 }
7686 \def\morefloats{% provides a total of 52 floats
7687   \ifthenelse{\isundefined{\bx@S}}{%
7688     \bidituftefloatDebugInfoNL{Adding 34 more float slots.}
7689     \newinsert\bx@S
7690     \newinsert\bx@T
7691     \newinsert\bx@U
7692     \newinsert\bx@V
7693     \newinsert\bx@W
7694     \newinsert\bx@X
7695     \newinsert\bx@Y
7696     \newinsert\bx@Z
7697     \newinsert\bx@a
7698     \newinsert\bx@b
7699     \newinsert\bx@c
7700     \newinsert\bx@d
7701     \newinsert\bx@e
7702     \newinsert\bx@f
7703     \newinsert\bx@g
7704     \newinsert\bx@h
7705     \newinsert\bx@i
7706     \newinsert\bx@j
7707     \newinsert\bx@k
7708     \newinsert\bx@l
7709     \newinsert\bx@m
7710     \newinsert\bx@n
7711     \newinsert\bx@o
7712     \newinsert\bx@p
7713     \newinsert\bx@q
7714     \newinsert\bx@r
7715     \newinsert\bx@s
7716     \newinsert\bx@t
7717     \newinsert\bx@u
7718     \newinsert\bx@v
7719     \newinsert\bx@w
7720     \newinsert\bx@x
7721     \newinsert\bx@y
7722     \newinsert\bx@z
7723     \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7724                   \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7725                   \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7726                   \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R

```




```

7727 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7728 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7729 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7730 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7731 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7732 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7733 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7734 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z}%
7735 }{% we've already added another 34 floats, so we'll add 26 more, but that's it!
7736 \ifthenelse{\isundefined{\bx@AA}}{%
7737 \bidituftefloatDebugInfoNL{Adding 26 more float slots.}
7738 \newinsert\bx@AA
7739 \newinsert\bx@BB
7740 \newinsert\bx@CC
7741 \newinsert\bx@DD
7742 \newinsert\bx@EE
7743 \newinsert\bx@FF
7744 \newinsert\bx@GG
7745 \newinsert\bx@HH
7746 \newinsert\bx@II
7747 \newinsert\bx@JJ
7748 \newinsert\bx@KK
7749 \newinsert\bx@LL
7750 \newinsert\bx@MM
7751 \newinsert\bx@NN
7752 \newinsert\bx@OO
7753 \newinsert\bx@PP
7754 \newinsert\bx@QQ
7755 \newinsert\bx@RR
7756 \newinsert\bx@SS
7757 \newinsert\bx@TT
7758 \newinsert\bx@UU
7759 \newinsert\bx@VV
7760 \newinsert\bx@WW
7761 \newinsert\bx@XX
7762 \newinsert\bx@YY
7763 \newinsert\bx@ZZ
7764 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7765 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7766 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7767 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7768 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7769 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7770 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7771 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7772 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7773 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7774 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7775 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z
7776 \@elt\bx@AA\@elt\bx@BB\@elt\bx@CC\@elt\bx@DD\@elt\bx@EE
7777 \@elt\bx@FF\@elt\bx@GG\@elt\bx@HH\@elt\bx@II\@elt\bx@JJ
7778 \@elt\bx@KK\@elt\bx@LL\@elt\bx@MM\@elt\bx@NN
7779 \@elt\bx@OO\@elt\bx@PP\@elt\bx@QQ\@elt\bx@RR
7780 \@elt\bx@SS\@elt\bx@TT\@elt\bx@UU\@elt\bx@VV

```




```

7781         \@elt\bx@WW\@elt\bx@XX\@elt\bx@YY\@elt\bx@ZZ}%
7782     }{%
7783         \biditytfloatError{You may only call \string\morefloats\space twice. See the\Message
7784             {There are already 78 float slots allocated. Try using \string\FloatBarrier\space on
7785         }%
7786     }%
7787 }
7788 \newboolean{@biditytfloat@packages@subfigure}
7789 \setboolean{@biditytfloat@packages@subfigure}{false}
7790 \AtBeginDocument{%
7791     \@ifpackageloaded{subfigure}
7792     {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{true}}
7793     {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{false}}}%
7794 }
7795 \AtBeginDocument{%
7796     \@ifpackageloaded{float}{%
7797         % Save the redefined float environment (instead of the LaTeX float environment)
7798         \let\@biditytfloat@orig@float\@float
7799         \let\@biditytfloat@orig@endfloat\endfloat
7800
7801         % Define Tuftian float styles (with the caption in the margin)
7802         \newcommand{\floatc@biditytfloatplain}[2]{%
7803             \begin{lrbox}{\@biditytfloat@caption@box}%
7804                 \begin{minipage}{\floatalignment}{\marginparwidth}\hbox{%
7805                     \@biditytfloat@caption@font{\@fs@cfont #1:} #2\par%
7806                 }
7807             \end{lrbox}%
7808             \smash{\hspace{\@biditytfloat@caption@fill}}\usebox{\@biditytfloat@caption@box}}%
7809     }
7810     \newcommand{\fs@biditytfloatplain}{%
7811         \def\@fs@cfont{\@biditytfloat@caption@font}%
7812         \let\@fs@capt\floatc@biditytfloatplain%
7813         \def\@fs@pre{%
7814             \def\@fs@post{%
7815                 \def\@fs@mid{%
7816                     \let\@fs@iftopcapt\iftrue%
7817                 }
7818                 \let\fs@biditytfloatplaintop=\fs@biditytfloatplain
7819                 \let\floatc@biditytfloatplaintop=\floatc@biditytfloatplain
7820                 \newcommand\floatc@biditytfloatruled[2]{%
7821                     {\@fs@cfont #1} #2\par%
7822                 }
7823                 \newcommand\fs@biditytfloatruled{%
7824                     \def\@fs@cfont{\@biditytfloat@caption@font}%
7825                     \let\@fs@capt\floatc@biditytfloatplain%
7826                     \def\@fs@pre{\hrule height.8pt depth0pt width\textwidth \kern2pt}%
7827                     \def\@fs@post{\kern2pt\hrule width\textwidth\relax}%
7828                     \def\@fs@mid{%
7829                         \let\@fs@iftopcapt\iftrue%
7830                     }
7831                 \newcommand\fs@biditytfloatboxed{%
7832                     \def\@fs@cfont{}%
7833                     \let\@fs@capt\floatc@biditytfloatplain%
7834                     \def\@fs@pre{%

```



```

7835      \setbox\@currbox\vbox{\hbadness10000
7836      \moveleft3.4pt\vbox{\advance\hsize by6.8pt
7837      \hrule \hbox to\hsize{\vrule\kern3pt
7838      \vbox{\kern3pt\box\@currbox\kern3pt}\kern3pt\vrule}\hrule}}
7839      }%
7840      \def\@fs@mid{\kern2pt}%
7841      \def\@fs@post{}%
7842      \let\@fs@iftopcapt\iftrue%
7843    }
7844  }{%
7845    % Nothing to do
7846  }
7847 }
7848 \AtBeginDocument{%
7849   \ifpackageloaded{algorithm}{%
7850     % Set the float style to the Tufte version
7851     \ifthenelse{\equal{\ALG@floatstyle}{plain}}{\OR\equal{\ALG@floatstyle}{ruled}}{\OR\equal{\AL
7852       \bidituftesfloatInfoNL{Switching algorithm float style from \ALG@floatstyle\MessageBrea
7853       \floatstyle{bidituftesfloat\ALG@floatstyle}%
7854       \restylefloat{algorithm}%
7855     }{}%
7856   }{%
7857     % Nothing to do
7858   }
7859 }
7860 \PassOptionsToPackage{caption=false}{subfig}

```

54 File `bidituftesidenote.sty`

```

7861 \NeedsTeXFormat{LaTeX2e}
7862 \ProvidesPackage{bidituftesidenote}[2017/08/09 v0.4
7863 bidi implementation of tufte sidenote]
7864 \RequirePackage{xifthen}
7865 \RequirePackage{ragged2e}
7866 \RequirePackage{setspace}
7867 \RequirePackage{biditools}
7868 \def\bidituftesidenotemarginpar{%
7869   \ifhmode
7870     \@bsphack
7871     \@floatpenalty -\@Mii
7872   \else
7873     \@floatpenalty -\@Miii
7874   \fi
7875   \ifinner
7876     \@parmoderr
7877     \@floatpenalty\z@
7878   \else
7879     \@next\@currbox\@freelist{}{}%
7880     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7881     {\@floatpenalty\z@
7882       \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}}%
7883   \fi
7884   \@ifnextchar [\@bidituftesidenotexmpar\@bidituftesidenoteypar}
7885 \long\def\@bidituftesidenotexmpar[#1]#2{%

```



```

7886 \@bidityftesidenotesavemarbox\@marbox{#1}%
7887 \@bidityftesidenotesavemarbox\@currbox{#2}%
7888 \@xympar}
7889 \long\def\@bidityftesidenoteympar#1{%
7890 \@bidityftesidenotesavemarbox\@marbox{#1}%
7891 \global\setbox\@currbox\copy\@marbox
7892 \@xympar}
7893 \long\def \@bidityftesidenotesavemarbox #1#2{%
7894 \global\setbox #1%
7895 \color@vbox
7896 \vtop{%
7897 \hsize\marginparwidth
7898 \parboxrestore
7899 \@bidityftesidenotemarginparreset
7900 #2%
7901 \@minipagefalse
7902 \outer@nobreak
7903 }%
7904 \color@endbox
7905 }
7906 \def \@bidityftesidenotemarginparreset {%
7907 \reset@font
7908 \normalsize
7909 \@minipagetrue
7910 \everypar{\@minipagefalse\everypar{}}\if@RTL@footnote\beginR\else\beginL\fi}%
7911 }
7912 \def\LTRbidityftesidenotemarginpar{%
7913 \ifhmode
7914 \@bsphack
7915 \@floatpenalty -\@Mii
7916 \else
7917 \@floatpenalty-\@Miii
7918 \fi
7919 \ifinner
7920 \@parmoderr
7921 \@floatpenalty\z@
7922 \else
7923 \@next\@currbox\@freelist{}{}%
7924 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7925 {\@floatpenalty\z@
7926 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7927 \fi
7928 \@ifnextchar [\@LTRbidityftesidenotexmpar\@LTRbidityftesidenoteympar}
7929 \long\def\@LTRbidityftesidenotexmpar[#1]#2{%
7930 \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7931 \@LTRbidityftesidenotesavemarbox\@currbox{#2}%
7932 \@xympar}
7933 \long\def\@LTRbidityftesidenoteympar#1{%
7934 \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7935 \global\setbox\@currbox\copy\@marbox
7936 \@xympar}
7937 \long\def \@LTRbidityftesidenotesavemarbox #1#2{%
7938 \global\setbox #1%
7939 \color@vbox

```



```

7940     \vtop{%
7941         \hsize\marginparwidth
7942         \@parboxrestore
7943         \@LTRbidituftesidenotemarginparreset
7944         #2%
7945         \@minipagefalse
7946         \outer@nobreak
7947     }%
7948     \color@endbox
7949 }
7950 \def \@LTRbidituftesidenotemarginparreset {%
7951     \reset@font
7952     \normalsize
7953     \@minipagetrue
7954     \everypar{\@minipagefalse\everypar{}\beginL}%
7955 }
7956 \def\RTLbidituftesidenotemarginpar{%
7957     \ifhmode
7958         \@bsphack
7959         \@floatpenalty -\@Mii
7960     \else
7961         \@floatpenalty-\@Miii
7962     \fi
7963     \ifinner
7964         \@parmoderr
7965         \@floatpenalty\z@
7966     \else
7967         \@next\@currbox\@freelist{}\{}%
7968         \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7969         {\@floatpenalty\z@
7970         \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7971     \fi
7972     \ifnextchar [\@RTLbidituftesidenotexmpar\@RTLbidituftesidenoteympar}
7973 \long\def\@RTLbidituftesidenotexmpar[#1]#2{%
7974     \@RTLbidituftesidenotesavemarbox\@marbox{#1}%
7975     \@RTLbidituftesidenotesavemarbox\@currbox{#2}%
7976     \@xympar}
7977 \long\def\@RTLbidituftesidenoteympar#1{%
7978     \@RTLbidituftesidenotesavemarbox\@marbox{#1}%
7979     \global\setbox\@currbox\copy\@marbox
7980     \@xympar}
7981 \long\def \@RTLbidituftesidenotesavemarbox #1#2{%
7982     \global\setbox #1%
7983     \color@vbox
7984     \vtop{%
7985         \hsize\marginparwidth
7986         \@parboxrestore
7987         \@RTLbidituftesidenotemarginparreset
7988         #2%
7989         \@minipagefalse
7990         \outer@nobreak
7991     }%
7992     \color@endbox
7993 }

```



```

7994 \def \@RTLbidituftesidenotemarginparreset {%
7995     \reset@font
7996     \normalsize
7997     \@minipagetrue
7998     \everypar{\@minipagefalse\everypar{}\beginR}%
7999 }
8000 \newcommand*{\@bidituftesidenote@marginfont}{\normalfont\footnotesize}
8001 \newcommand*{\@bidituftesidenote@LTRmarginfont}{\normalfont\footnotesize}
8002 \newcommand*{\@bidituftesidenote@RTLmarginfont}{\normalfont\footnotesize}
8003 \newcommand*{\@bidituftesidenote@sidenote@font}{\@bidituftesidenote@marginfont}
8004 \newcommand*{\@bidituftesidenote@LTRsidenote@font}{\@bidituftesidenote@LTRmarginfont}
8005 \newcommand*{\@bidituftesidenote@RTLSidenote@font}{\@bidituftesidenote@RTLmarginfont}
8006 \newcommand*{\@bidituftesidenote@marginnote@font}{\@bidituftesidenote@marginfont}
8007 \newcommand*{\@bidituftesidenote@LTRmarginnote@font}{\@bidituftesidenote@LTRmarginfont}
8008 \newcommand*{\@bidituftesidenote@RTLmarginnote@font}{\@bidituftesidenote@RTLmarginfont}
8009 \newcommand*{\@bidituftesidenote@citation@font}{\@bidituftesidenote@marginfont}
8010 \newcommand*{\@bidituftesidenote@LTRcitation@font}{\@bidituftesidenote@LTRmarginfont}
8011 \newcommand*{\@bidituftesidenote@RTLCitation@font}{\@bidituftesidenote@RTLmarginfont}
8012 \newcommand*{\setsidenote@font}[1]{\renewcommand*{\@bidituftesidenote@sidenote@font}{#1}}
8013 \newcommand*{\setLTRsidenote@font}[1]{\renewcommand*{\@bidituftesidenote@LTRsidenote@font}{#1}}
8014 \newcommand*{\setRTLSidenote@font}[1]{\renewcommand*{\@bidituftesidenote@RTLSidenote@font}{#1}}
8015 \newcommand*{\setmarginnote@font}[1]{\renewcommand*{\@bidituftesidenote@marginnote@font}{#1}}
8016 \newcommand*{\setLTRmarginnote@font}[1]{\renewcommand*{\@bidituftesidenote@LTRmarginnote@font}{#1}}
8017 \newcommand*{\setRTLmarginnote@font}[1]{\renewcommand*{\@bidituftesidenote@RTLmarginnote@font}{#1}}
8018 \newcommand*{\setcitation@font}[1]{\renewcommand*{\@bidituftesidenote@citation@font}{#1}}
8019 \newcommand*{\setLTRcitation@font}[1]{\renewcommand*{\@bidituftesidenote@LTRcitation@font}{#1}}
8020 \newcommand*{\setRTLCitation@font}[1]{\renewcommand*{\@bidituftesidenote@RTLCitation@font}{#1}}
8021 \newcommand*{\@bidituftesidenote@sidenote@justification}{\@bidituftesidenote@justification@auto}
8022 \newcommand*{\@bidituftesidenote@marginnote@justification}{\@bidituftesidenote@justification@auto}
8023 \newcommand*{\@bidituftesidenote@citation@justification}{\@bidituftesidenote@justification@auto}
8024 \newcommand*{\@bidituftesidenote@justification@autodetect}{\justifying}%
8025 \newcommand{\@bidituftesidenote@margin@par}{%
8026     \setlength{\RaggedRightParindent}{0.5pc}%
8027     \setlength{\JustifyingParindent}{0.5pc}%
8028     \setlength{\parindent}{0.5pc}%
8029     \setlength{\parskip}{0pt}%
8030 }
8031 %%
8032 % Globally sets the length
8033 \ifundefined{gsetlength}{%
8034 \newcommand*{gsetlength}[2]{%
8035     \setlength{#1}{#2}%
8036     \global#1=#1\relax%
8037 }%
8038 }{}
8039
8040 %%
8041 % A function that removes leading and trailing spaces from the supplied macro.
8042 % Based on code written by Michael Downes (See ``Around the Bend'', #15.)
8043 % Executing \@bidituftesidenote@trim@spaces\xyzzy will result in the contents of \xyzzy
8044 % being trimmed of leading and trailing white space.
8045 \catcode`\Q=3
8046 \def\@bidituftesidenote@trim@spaces#1{%
8047     % Use grouping to emulate a multi-token afterassignment queue

```



```

8048 \begingroup%
8049 % Put \toks 0 {' into the afterassignment queue
8050 \aftergroup\toks\aftergroup0\aftergroup{%
8051 % Apply \trimb to the replacement text of #1, adding a leading
8052 % \noexpand to prevent brace stripping and to serve another purpose
8053 % later.
8054 \expandafter\@bidityftesidenote@trim@b\expandafter\noexpand#1Q Q}%
8055 % Transfer the trimmed text back into #1.
8056 \edef#1{\the\toks0}%
8057 }
8058 % \trimb removes a trailing space if present, then calls \@bidityftesidenote@trim@c to
8059 % clean up any leftover bizarre Qs, and trim a leading space. In
8060 % order for \trimc to work properly we need to put back a Q first.
8061 \def\@bidityftesidenote@trim@b#1 Q{\@bidityftesidenote@trim@c#1Q}
8062 % Execute \vfuzz assignment to remove leading space; the \noexpand
8063 % will now prevent unwanted expansion of a macro or other expandable
8064 % token at the beginning of the trimmed text. The \endgroup will feed
8065 % in the \aftergroup tokens after the \vfuzz assignment is completed.
8066 \def\@bidityftesidenote@trim@c#1Q#2{\afterassignment\endgroup \vfuzz\the\vfuzz#1}
8067 \catcode\Q=11
8068 %%
8069 % Citations should go in the margin as sidenotes
8070
8071 \RequirePackage{natbib}
8072 \RequirePackage{bibentry} % allows bibitems to be typeset outside thebibliography env
8073 % Redefine the \BR@b@bibitem command to fix a bug with bibentry+chicago style
8074 \renewcommand\BR@b@bibitem[2] []{%
8075   \ifthenelse{\isempty{#1}}{%
8076     {\BR@b@bibitem{#2}}%
8077     {\BR@b@bibitem{#1}{#2}}%
8078   \BR@c@bibitem{#2}%
8079 }
8080 \bidi@AtEndPreamble{\nobibliography*} % pre-loads the bibliography keys
8081 %%
8082 % Normal \cite behavior
8083 \newcounter{@bidityftesidenote@num@bibkeys}%
8084 \newcommand{\@bidityftesidenote@normal@cite}[2] [Opt]{%
8085   % Snag the last bibentry in the list for later comparison
8086   \let\@temp@last@bibkey\@empty%
8087   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8088   \sidenote[] [#1]{%
8089     % Loop through all the bibentries, separating them with semicolons and spaces
8090     \normalsize\normalfont\@bidityftesidenote@citation@font%
8091     \setcounter{@bidityftesidenote@num@bibkeys}{0}%
8092     \@for\@temp@bibkeyx:=#2\do{%
8093       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8094         {\ifthenelse{\equal{\value{@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
8095           \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8096           \bibentry{\@temp@bibkeyx}}%
8097         {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8098           \bibentry{\@temp@bibkeyx}\ }%
8099       \stepcounter{@bidityftesidenote@num@bibkeys}%
8100     }%
8101   }%

```



```

8102 }
8103 \newcommand{\@bidityftelTRsidenote@normal@cite}[2][Opt]{%
8104 % Snag the last bibentry in the list for later comparison
8105 \let\@temp@last@bibkey\@empty%
8106 \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8107 \LTRsidenote[] [#1]{%
8108 % Loop through all the bibentries, separating them with semicolons and spaces
8109 \normalsize\normalfont\@bidityftesidenote@LTRcitation@font%
8110 \setcounter{\@bidityftesidenote@num@bibkeys}{0}%
8111 \@for\@temp@bibkeyx:=#2\do{%
8112 \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8113 {\ifthenelse{\equal{\value{\@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
8114 \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8115 \bibentry{\@temp@bibkeyx}}%
8116 {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8117 \bibentry{\@temp@bibkeyx};\ }%
8118 \stepcounter{\@bidityftesidenote@num@bibkeys}%
8119 }%
8120 }%
8121 }
8122 \newcommand{\@bidityfteRTLsidenote@normal@cite}[2][Opt]{%
8123 % Snag the last bibentry in the list for later comparison
8124 \let\@temp@last@bibkey\@empty%
8125 \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8126 \RTLsidenote[] [#1]{%
8127 % Loop through all the bibentries, separating them with semicolons and spaces
8128 \normalsize\normalfont\@bidityftesidenote@citation@font%
8129 \setcounter{\@bidityftesidenote@num@bibkeys}{0}%
8130 \@for\@temp@bibkeyx:=#2\do{%
8131 \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8132 {\ifthenelse{\equal{\value{\@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
8133 \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8134 \bibentry{\@temp@bibkeyx}}%
8135 {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8136 \bibentry{\@temp@bibkeyx};\ }%
8137 \stepcounter{\@bidityftesidenote@num@bibkeys}%
8138 }%
8139 }%
8140 }
8141 %%
8142 % Macros for holding the list of cite keys until after the \sidenote
8143 \gdef\@bidityftesidenote@citations{}% list of cite keys
8144 \newcommand\@bidityftesidenote@add@citation[1]{\relax% adds a new bibkey to the list of cite
8145 \ifx\@bidityftesidenote@citations\@empty\else
8146 \g@addto@macro\@bidityftesidenote@citations{,}% separate by commas
8147 \fi
8148 \g@addto@macro\@bidityftesidenote@citations{#1}
8149 }
8150 \newcommand{\@bidityftesidenote@print@citations}[1][Opt]{% puts the citations in a margin no
8151 % Snag the last bibentry in the list for later comparison
8152 \let\@temp@last@bibkey\@empty%
8153 \@for\@temp@bibkey:=\@bidityftesidenote@citations\do{\let\@temp@last@bibkey\@temp@bibkey}%
8154 \marginpar{%
8155 \hbox{}\vspace*{#1}%

```



```

8156 \@bidityftesidenote@citation@font%
8157 \@bidityftesidenote@citation@justification%
8158 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8159 \vspace*{-1\baselineskip}%
8160 % Loop through all the bibentries, separating them with semicolons and spaces
8161 \setcounter{@bidityftesidenote@num@bibkeys}{0}%
8162 \@for\@temp@bibkeyx:=\@bidityftesidenote@citations\do{%
8163 \ifthenelse{equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8164 {\ifthenelse{equal{value{@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
8165 \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8166 \bibentry{\@temp@bibkeyx}}%
8167 {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8168 \bibentry{\@temp@bibkeyx};\ }%
8169 \stepcounter{@bidityftesidenote@num@bibkeys}%
8170 }%
8171 }%
8172 }
8173 %%
8174 % \cite behavior when executed within a sidenote
8175 \newcommand{\@bidityftesidenote@sidenote@citations}{}% contains list of \cites in sidenote
8176 \newcommand{\@bidityftesidenote@infootnote@cite}[1]{%
8177 \@bidityftesidenote@add@citation{#1}
8178 }
8179 %%
8180 % Set the default \cite style. This is set and reset by the \sidenote command.
8181 \let\cite\@bidityftesidenote@normal@cite
8182 \let\LTRcite\@bidityftelTRsidenote@normal@cite
8183 \let\RTLcite\@bidityfteRTLsidenote@normal@cite
8184 %%
8185 % Transform existing \footnotes into \sidenotes
8186 % Sidenote: ``Where God meant footnotes to go.''' ---bidityftesidenote
8187 \RequirePackage{optparams}% for our new sidenote commands -- provides multiple optional argu
8188 \providecommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote
8189 \renewcommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote
8190 % Override footmisc's definition to set the sidenote marks (numbers) inside the
8191 % sidenote's text block.
8192 \bidi@patch@AfterPackage{bidi}{\long\def\@makefnmark{\@textsuperscript{\@bidityftesidenote
8193 % Set the in-text footnote mark in the same typeface as the body text itself.
8194 \bidi@patch@AfterPackage{bidi}{\def\@makefnmark{\hbox{\@textsuperscript{\normalfont\footnote
8195 \providecommand*\@multiplefootnotemark}{\footnotemark}{3sp}
8196 \providecommand*\@multfootsep}{,}
8197 \bidi@patch@AfterPackage{bidi}{%
8198 \renewcommand{\@footnotemark}{%
8199 \leavevmode%
8200 \ifhmode%
8201 \edef\@x@sf{\the\spacefactor}%
8202 \@bidityftesidenote@check@multiple@sidenotes%
8203 \nobreak%
8204 \fi%
8205 \@makefnmark%
8206 \ifhmode\spacefactor\@x@sf\fi%
8207 \relax%
8208 }%
8209 }

```




```

8210 \newcommand{\@bidityftesidenote@check@multiple@sidenotes}{%
8211 \ifdim\lastkern=\multiplefootnotemarker\relax%
8212 \edef\@x@sf{\the\spacefactor}%
8213 \unkern%
8214 \textsuperscript{\multfootsep}%
8215 \spacefactor\@x@sf\relax%
8216 \fi
8217 }
8218 \bidi@patch@AfterPackage{bidi}{%
8219 \renewcommand\@footnotetext[2][0pt]{%
8220 \bidityftesidenotemarginpar{%
8221 \hbox{}}\vspace*{#1}%
8222 \def\baselinestretch {\setspace@singlespace}%
8223 \reset@font%
8224 \bidi@footnotetext@font% \reset@font\footnotesize%
8225 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8226 \vspace*{-1\baselineskip}\noindent%
8227 \protected@edef\@currentlabel{%
8228 \csname p@footnote\endcsname\@thefnmark%
8229 }%
8230 \color@begingroup%
8231 \@makefntext{%
8232 \ignorespaces#2%
8233 }%
8234 \color@endgroup%
8235 }%
8236 }%
8237 \renewcommand\@LTRfootnotetext[2][0pt]{%
8238 \LTRbidityftesidenotemarginpar{%
8239 \hbox{}}\vspace*{#1}%
8240 \def\baselinestretch {\setspace@singlespace}%
8241 \reset@font%
8242 \bidi@LTRfootnotetext@font% \reset@font\footnotesize%
8243 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8244 \vspace*{-1\baselineskip}\noindent%
8245 \protected@edef\@currentlabel{%
8246 \csname p@footnote\endcsname\@thefnmark%
8247 }%
8248 \color@begingroup%
8249 \@makefntext{%
8250 \ignorespaces#2%
8251 }%
8252 \color@endgroup%
8253 }%
8254 }%
8255 \renewcommand\@RTLfootnotetext[2][0pt]{%
8256 \RTLbidityftesidenotemarginpar{%
8257 \hbox{}}\vspace*{#1}%
8258 \def\baselinestretch {\setspace@singlespace}%
8259 \reset@font%
8260 \bidi@RTLfootnotetext@font% \reset@font\footnotesize%
8261 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8262 \vspace*{-1\baselineskip}\noindent%
8263 \protected@edef\@currentlabel{%

```



```

8264      \csname p@footnote\endcsname\@thefnmark%
8265  }%
8266      \color@begingroup%
8267      \@makefnmark{%
8268          \ignorespaces#2%
8269      }%
8270      \color@endgroup%
8271  }%
8272 }%
8273 }
8274 %
8275 % Define \sidenote command. Can handle \cite.
8276 \newlength{\@bidituftesidenote@sidenote@vertical@offset}
8277 \setlength{\@bidituftesidenote@sidenote@vertical@offset}{0pt}
8278 % #1 = footnote num, #2 = vertical offset, #3 = footnote text
8279 \long\def\@bidituftesidenote@sidenote[#1][#2]#3{%
8280     \let\cite\@bidituftesidenote@infootnote@cite%    use the in-sidenote \cite command
8281     \gdef\@bidituftesidenote@citations{}%            clear out any old citations
8282     \ifthenelse{\NOT\isempty{#2}}{%
8283         \gsetlength{\@bidituftesidenote@sidenote@vertical@offset}{#2}%
8284     }{%
8285         \gsetlength{\@bidituftesidenote@sidenote@vertical@offset}{0pt}%
8286     }%
8287     \ifthenelse{\isempty{#1}}{%
8288         % no specific footnote number provided
8289         \stepcounter\@mpfn%
8290         \protected@xdef\@thefnmark{\thempfn}%
8291         \@footnotemark\@footnotetext[\@bidituftesidenote@sidenote@vertical@offset]{#3}%
8292     }{%
8293         % specific footnote number provided
8294         \begingroup%
8295         \csname c@\@mpfn\endcsname #1\relax%
8296         \unrestored@protected@xdef\@thefnmark{\thempfn}%
8297         \endgroup%
8298         \@footnotemark\@footnotetext[\@bidituftesidenote@sidenote@vertical@offset]{#3}%
8299     }%
8300     \@bidituftesidenote@print@citations%              print any citations
8301     \let\cite\@bidituftesidenote@normal@cite%         go back to using normal in-text \cite comm
8302     \let\LTRcite\@bidituftesidenote@normal@cite%     go back to using normal in-text \LTR
8303     \let\RTLcite\@bidituftesidenote@normal@cite%     go back to using normal in-text \RTL
8304     \unskip\ignorespaces%                            remove extra white space
8305     \kern-\multiplefootnotemarker%                  remove \kern left behind by sidenote
8306     \kern\multiplefootnotemarker\relax%              add new \kern here to replace the one we yanked
8307 }
8308 \long\def\@LTRbidituftesidenote@sidenote[#1][#2]#3{%
8309     \let\cite\@bidituftesidenote@infootnote@cite%    use the in-sidenote \cite command
8310     \gdef\@bidituftesidenote@citations{}%            clear out any old citations
8311     \ifthenelse{\NOT\isempty{#2}}{%
8312         \gsetlength{\@bidituftesidenote@sidenote@vertical@offset}{#2}%
8313     }{%
8314         \gsetlength{\@bidituftesidenote@sidenote@vertical@offset}{0pt}%
8315     }%
8316     \ifthenelse{\isempty{#1}}{%
8317         % no specific footnote number provided

```



```

8318 \stepcounter\@mpfn%
8319 \protected@xdef\@thefnmark{\thempfn}%
8320 \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8321 }{%
8322 % specific footnote number provided
8323 \begingroup%
8324 \csname c@\@mpfn\endcsname #1\relax%
8325 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8326 \endgroup%
8327 \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8328 }%
8329 \@bidityftesidenote@print@citations% print any citations
8330 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8331 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8332 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8333 \unskip\ignorespaces% remove extra white space
8334 \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
8335 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8336 }
8337 \long\def\@RTLbidityftesidenote@sidenote[#1][#2]#3{%
8338 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8339 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8340 \ifthenelse{\NOT\isempty{#2}}{%
8341 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8342 }{%
8343 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8344 }%
8345 \ifthenelse{\isempty{#1}}{%
8346 % no specific footnote number provided
8347 \stepcounter\@mpfn%
8348 \protected@xdef\@thefnmark{\thempfn}%
8349 \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8350 }{%
8351 % specific footnote number provided
8352 \begingroup%
8353 \csname c@\@mpfn\endcsname #1\relax%
8354 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8355 \endgroup%
8356 \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8357 }%
8358 \@bidityftesidenote@print@citations% print any citations
8359 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8360 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8361 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8362 \unskip\ignorespaces% remove extra white space
8363 \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
8364 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8365 }
8366 \newcommand{\sidenote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}
8367 \newcommand{\LTRsidenote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}
8368 \newcommand{\RTLsidenote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}
8369 \bidi@patch@AfterPackage{bidi}{%
8370 \renewcommand{\footnote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}%
8371 \renewcommand{\LTRfootnote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}%

```



```

8372 \renewcommand{\RTLfootnote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}%
8373 }
8374 %%
8375 % Sidenote without the footnote mark
8376 \newcommand\marginnote[2] [Opt]{%
8377   \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8378   \gdef\@bidityftesidenote@citations{}%          clear out any old citations
8379   \bidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@marginnote@font\@bidityftesidenote@print@citations%
8380   \@bidityftesidenote@print@citations%            print any citations
8381   \let\cite\@bidityftesidenote@normal@cite%        go back to using normal in-text \cite command
8382   \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8383   \let\RLcite\@bidityfteRTLsidenote@normal@cite%   go back to using normal in-text \RTL
8384 }
8385 \newcommand\LTRmarginnote[2] [Opt]{%
8386   \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8387   \gdef\@bidityftesidenote@citations{}%          clear out any old citations
8388   \LTRbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@LTRmarginnote@font\@bidityftesidenote@print@citations%
8389   \@bidityftesidenote@print@citations%            print any citations
8390   \let\cite\@bidityftesidenote@normal@cite%        go back to using normal in-text \cite command
8391   \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8392   \let\RLcite\@bidityfteRTLsidenote@normal@cite%   go back to using normal in-text \RTL
8393 }
8394 \newcommand\RTLmarginnote[2] [Opt]{%
8395   \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8396   \gdef\@bidityftesidenote@citations{}%          clear out any old citations
8397   \RTLbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@RTLmarginnote@font\@bidityftesidenote@print@citations%
8398   \@bidityftesidenote@print@citations%            print any citations
8399   \let\cite\@bidityftesidenote@normal@cite%        go back to using normal in-text \cite command
8400   \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8401   \let\RLcite\@bidityfteRTLsidenote@normal@cite%   go back to using normal in-text \RTL
8402 }

```

55 File bidityftetoc.sty

```

8403 \NeedsTeXFormat{LaTeX2e}
8404 \ProvidesPackage{bidityftetoc}[2011/06/17 v0.1
8405 bidi implementation of tufte toc]
8406 \RequirePackage{titlesec,titletoc,xifthen,biditytools}
8407 \newcommand{\@bidityftetoc@pkgname}{bidityftetoc}
8408 \newcommand{\bidityftetocError}[2]{\PackageError{\@bidityftetoc@pkgname}{#1}{#2}}
8409 %%
8410 % Turn off section numbering
8411 \setcounter{secnumdepth}{-1}
8412 \newboolean{@bidityftetoc@toc}
8413 \setboolean{@bidityftetoc@toc}{true}
8414 \DeclareOption{notoc}{\setboolean{@bidityftetoc@toc}{false}}
8415 \DeclareOption{toc}{\setboolean{@bidityftetoc@toc}{true}}
8416 \ProcessOptions
8417 %%
8418 % Make Tufte-style section headings and TOC formatting
8419 \bidity@patch@AfterPackage{bidi}{%
8420 \titleformat{\chapter}%
8421   [display]% shape
8422   {\relax\ifthenelse{\NOT\boolean{@bidityftefloat@symmetric}}{\begin{fullwidth}}{}}% format

```



```

8423 {\itshape\huge\thechapter}% label
8424 {0pt}% horizontal separation between label and title body
8425 {\huge\rmfamily\itshape}% before the title body
8426 [\ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}{\end{fullwidth}}{}]% after the title
8427 \titleformat{\section}%
8428 [hang]% shape
8429 {\normalfont\Large\itshape}% format applied to label+text
8430 {\thesection}% label
8431 {1em}% horizontal separation between label and title body
8432 {}% before the title body
8433 []% after the title body
8434 \titleformat{\subsection}%
8435 [hang]% shape
8436 {\normalfont\large\itshape}% format applied to label+text
8437 {\thesubsection}% label
8438 {1em}% horizontal separation between label and title body
8439 {}% before the title body
8440 []% after the title body
8441 \titleformat{\paragraph}%
8442 [runin]% shape
8443 {\normalfont\itshape}% format applied to label+text
8444 {\theparagraph}% label
8445 {1em}% horizontal separation between label and title body
8446 {}% before the title body
8447 []% after the title body
8448 \titlespacing*{\chapter}{0pt}{50pt}{40pt}
8449 \titlespacing*{\section}{0pt}{3.5ex plus 1ex minus .2ex}{2.3ex plus .2ex}
8450 \titlespacing*{\subsection}{0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus .2ex}
8451 }
8452 % Subsubsection and following section headings shouldn't be used.
8453 % See Bringhurst's _The Elements of Typography_, section 4.2.2.
8454 \renewcommand\subsubsection{%
8455   \biditytError{\noexpand\subsubsection is undefined by this class.%
8456     \MessageBreak See Robert Bringhurst's _The Elements of
8457     \MessageBreak Typographic Style_, section 4.2.2.
8458     \MessageBreak \noexpand\subsubsection was used}
8459   {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8460     \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8461     \MessageBreak related threads on Ask E.T. at http://www.edwardbiditytError.com/.}
8462 }
8463 \renewcommand\subparagraph{%
8464   \biditytError{\noexpand\subparagraph is undefined by this class.%
8465     \MessageBreak See Robert Bringhurst's _The Elements of
8466     \MessageBreak Typographic Style_, section 4.2.2.
8467     \MessageBreak \noexpand\subparagraph was used}
8468   {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8469     \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8470     \MessageBreak related threads on Ask E.T. at http://www.edwardbiditytError.com/.}
8471 }
8472 % Formatting for main TOC (printed in front matter)
8473 % {section} [left] {above} {before w/label} {before w/o label} {filler + page} [after]
8474 \ifthenelse{\boolean{@biditytError@toc}}{%
8475   \biditytPatch@AfterPackage{bidi}{%
8476     \titlecontents{part}% FIXME

```



```

8477 [0em] % distance from left margin
8478 {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global form
8479 {\contentslabel{2em}} % before w/label (label = ``II'')
8480 {} % before w/o label
8481 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8482 [\end{fullwidth}] % after
8483 \titlecontents{chapter}%
8484 [0em] % distance from left margin
8485 {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global form
8486 {\hspace*{0em}\contentslabel{2em}} % before w/label (label = ``2'')
8487 {\hspace*{0em}} % before w/o label
8488 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8489 [\end{fullwidth}] % after
8490 \titlecontents{section}% FIXME
8491 [0em] % distance from left margin
8492 {\vspace{0\baselineskip}\begin{fullwidth}\Large\rmfamily\itshape} % above (global format
8493 {\hspace*{2em}\contentslabel{2em}} % before w/label (label = ``2.6'')
8494 {\hspace*{2em}} % before w/o label
8495 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8496 [\end{fullwidth}] % after
8497 \titlecontents{subsection}% FIXME
8498 [0em] % distance from left margin
8499 {\vspace{0\baselineskip}\begin{fullwidth}\large\rmfamily\itshape} % above (global format
8500 {\hspace*{4em}\contentslabel{4em}} % before w/label (label = ``2.6.1'')
8501 {\hspace*{4em}} % before w/o label
8502 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8503 [\end{fullwidth}] % after
8504 \titlecontents{paragraph}% FIXME
8505 [0em] % distance from left margin
8506 {\vspace{0\baselineskip}\begin{fullwidth}\normalsize\rmfamily\itshape} % above (global f
8507 {\hspace*{6em}\contentslabel{2em}} % before w/label (label = ``2.6.0.0.1'')
8508 {\hspace*{6em}} % before w/o label
8509 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8510 [\end{fullwidth}] % after
8511 }%
8512 {}%
8513 %%
8514 % Format lists of figures/tables
8515 \renewcommand\listoffigures{%
8516 \ifundefined{chapter}%
8517 {\section*{\listfigurename}}%
8518 {\chapter*{\listfigurename}}%
8519 % \begin{fullwidth}%
8520 \@starttoc{lof}%
8521 % \end{fullwidth}%
8522 }
8523 \renewcommand\listoftables{%
8524 \ifundefined{chapter}%
8525 {\section*{\listtablename}}%
8526 {\chapter*{\listtablename}}%
8527 % \begin{fullwidth}%
8528 \@starttoc{lot}%
8529 % \end{fullwidth}%
8530 }

```



```

8531 \newcommand{\@biditytftoc@lof@line}[2]{%
8532   % #1 is the figure/table number and its caption text
8533   % #2 is the page number on which the figure/table appears
8534   \leftskip 0.0em
8535   \rightskip 0em
8536   \parfillskip 0em plus 1fil
8537   \parindent 0.0em
8538   \@afterindenttrue
8539   \interlinepenalty\@M
8540   \leavevmode
8541   \@tempdima 2.0em
8542   \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
8543   \null\nobreak\hskip -\if@RTL\rightskip\else\leftskip\fi
8544   {#1}\nobreak\quad\nobreak#2%
8545   \par%
8546 }
8547 \renewcommand*\l@figure{\@biditytftoc@lof@line}
8548 \let\l@table\l@figure

```

56 File biditytftegeneralstructure.sty

```

8549 \NeedsTeXFormat{LaTeX2e}
8550 \ProvidesPackage{biditytftegeneralstructure}[2011/06/18 v0.1
8551 bidi implementation of tufte general structure]
8552 \renewcommand\small{%
8553   \@setfontsize\small\@ixpt{12}%
8554   \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@
8555   \abovedisplayshortskip \z@ \@plus2\p@
8556   \belowdisplayshortskip 4\p@ \@plus2\p@ \@minus2\p@
8557   \def\@listi{\leftmargin\leftmargini
8558     \topsep 4\p@ \@plus2\p@ \@minus2\p@
8559     \parsep 2\p@ \@plus\p@ \@minus\p@
8560     \itemsep \parsep}%
8561   \belowdisplayskip \abovedisplayskip
8562 }
8563 \renewcommand\scriptsize{\@setfontsize\scriptsize\@viipt\@viipt}
8564 \renewcommand\tiny{\@setfontsize\tiny\@vpt\@vpt}
8565 \renewcommand\large{\@setfontsize\large\@xipt{15}}
8566 \renewcommand\Large{\@setfontsize\Large\@xiipt{16}}
8567 \renewcommand\LARGE{\@setfontsize\LARGE\@xivpt{18}}
8568 \renewcommand\huge{\@setfontsize\huge\@xxpt{30}}
8569 \renewcommand\Huge{\@setfontsize\Huge{24}{36}}
8570 \setlength\leftmargini {1pc}
8571 \setlength\leftmarginii {1pc}
8572 \setlength\leftmarginiii {1pc}
8573 \setlength\leftmarginiv {1pc}
8574 \setlength\leftmarginv {1pc}
8575 \setlength\leftmarginvi {1pc}
8576 \setlength\labelsep {.5pc}
8577 \setlength\labelwidth {\leftmargini}
8578 \addtolength\labelwidth{-\labelsep}
8579 \setlength{\parindent}{1.0pc}%
8580 \setlength{\parskip}{0pt}%
8581 \RequirePackage{ragged2e}

```



```

8582 \setlength{\RaggedRightRightskip}{\z@ plus 0.08\hsize}
8583 % Paragraph indentation and separation for normal text
8584 \newcommand{\@biditytgeneralstructure@reset@par}{%
8585   \setlength{\RaggedRightParindent}{1.0pc}%
8586   \setlength{\JustifyingParindent}{1.0pc}%
8587   \setlength{\parindent}{1pc}%
8588   \setlength{\parskip}{0pt}%
8589 }
8590 \@biditytgeneralstructure@reset@par
8591 % Require paralist package for tighter lists
8592 \RequirePackage{paralist}
8593 % Add rightmargin to compactenum
8594 \def\@compactenum{%
8595   \expandafter\list\csname label\@enumctr\endcsname{%
8596     \usecounter{\@enumctr}%
8597     \rightmargin=2em% added this
8598     \parsep\plparsep
8599     \itemsep\plitemsep
8600     \topsep\pltopsep
8601     \partopsep\plpartopsep
8602     \def\makelabel##1{\hss\llap{##1}}}}
8603 %%
8604 % An environment for paragraph-style section
8605 \providecommand\newthought[1]{%
8606   \addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}%
8607   \noindent\textbf{#1}%
8608 }
8609 %%
8610 % Redefine the display environments (quote, quotation, etc.)
8611 \renewenvironment{verse}
8612   {\let\\\@centercr
8613    \list{}{\itemsep \z@
8614      \itemindent -1pc%
8615      \listparindent\itemindent
8616      \rightmargin \leftmargin
8617      \advance\leftmargin 1pc}%
8618    \small%
8619    \item\relax}
8620   {\endlist}
8621 \renewenvironment{quotation}
8622   {\list{}{\listparindent 1pc%
8623     \itemindent \listparindent
8624     \rightmargin \leftmargin
8625     \parsep \z@ \@plus\p@}%
8626     \small%
8627     \item\relax\noindent\ignorespaces}
8628   {\endlist}
8629 \renewenvironment{quote}
8630   {\list{}{\rightmargin\leftmargin}%
8631     \small%
8632     \item\relax}
8633   {\endlist}
8634 % Italicize description run-in headings (instead of the default bold)
8635 \renewcommand*{\descriptionlabel[1]}{\hspace\labelsep\normalfont\em #1}

```




```

8636 %%
8637 % Redefine \bibsection to not mark the running heads.
8638 % (Code modified from natbib.sty.)
8639 \@ifundefined{chapter}%
8640   {\renewcommand\bibsection{\section*{\refname}}}
8641   {\@ifundefined{NAT@sectionbib}%
8642     {\renewcommand\bibsection{\chapter{\bibname}}}
8643     {\renewcommand\bibsection{\section*{\bibname}}}}
8644 \RequirePackage{multicol}
8645 \renewenvironment{theindex}{%
8646   \@ifundefined{chapter}%
8647     {\section*{\indexname}}%
8648     {\chapter{\indexname}}%
8649   \begin{fullwidth}%
8650   \small%
8651   \parskip0pt%
8652   \parindent0pt%
8653   \let\item\@idxitem%
8654   \begin{multicols}{3}%
8655 }{%
8656   \end{multicols}%
8657   \end{fullwidth}%
8658 }
8659 \AtBeginDocument{%
8660 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi2em}%
8661 \renewcommand\subitem{\par\hangindent \if@RTL-\fi3em\hspace*{1em}}%
8662 \renewcommand\subsubitem{\par\hangindent \if@RTL-\fi4em\hspace*{2em}}
8663 \renewcommand\indexspace{\par\addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}\relax}%
8664 \newcommand{\lettergroup}[1]{% swallow the letter heading in the index

```

57 File `bidituftehyperref.sty`

```

8665 \NeedsTeXFormat{LaTeX2e}
8666 \ProvidesPackage{bidituftehyperref}[2011/06/18 v0.1
8667 bidi implementation of tufte hyperref]
8668 %%
8669 % Color
8670 \RequirePackage[usenames,dvipsnames,svgnames]{xcolor}%
8671 \newboolean{@bidituftehyperref@loadhyper}
8672 \setboolean{@bidituftehyperref@loadhyper}{true}
8673 \DeclareOption{hyper}{\setboolean{@bidituftehyperref@loadhyper}{true}}
8674 \DeclareOption{nohyper}{\setboolean{@bidituftehyperref@loadhyper}{false}}
8675 \ProcessOptions
8676 %% Loads the hyperref package and sets some default options.
8677 \newcommand{\bidituftehyperrefLoadHyperref}{%
8678 \RequirePackage[hyperfootnotes=false,colorlinks=true]{hyperref}
8679 \hypersetup{
8680   bookmarksdepth = section,
8681   citecolor = DarkGreen,
8682   linkcolor = DarkBlue,
8683   % pagecolor = DarkBlue,
8684   urlcolor = DarkGreen,
8685 }%
8686 }

```



```

8687 \ifthenelse{\boolean{@biditytuftehyperref@loadhyper}}{%
8688   \biditytuftehyperrefLoadHyperref%
8689 }{% hyperfootnotes override our modifications to the \footnote* and \@footnote* commands.
8690   \PassOptionsToPackage{hyperfootnotes=false}{hyperref}
8691 }

```

58 File biditytufte.sty

```

8692 \NeedsTeXFormat{LaTeX2e}
8693 \ProvidesPackage{biditytufte}[2011/06/18 v0.1
8694 bidi implementation of tufte title]
8695 \RequirePackage{biditytools}
8696 %%
8697 % 'titlepage' option -- creates a full title page with \maketitle
8698 \newboolean{@biditytufte@titlepage}
8699 \DeclareOption{titlepage}{\setboolean{@biditytufte@titlepage}{true}}
8700 \DeclareOption{notitlepage}{\setboolean{@biditytufte@titlepage}{false}}
8701 % Default 'book' and 'handout' options
8702 \@ifclassloaded{book}{%
8703 \ExecuteOptions{titlepage}}{%
8704 \@ifclassloaded{article}{%
8705 \ExecuteOptions{notitlepage}}%
8706 {}}
8707 \ProcessOptions
8708 %%
8709 % Modified \title, \author, and \date commands. These store the
8710 % (footnote-less) values in \plaintitle, \plainauthor, and \thedata, respectively.
8711 \newcommand{\plaintitle}{}% plain-text-only title
8712 \newcommand{\plainauthor}{}% plain-text-only author
8713 \newcommand{\plainpublisher}{}% plain-text-only publisher
8714 \newcommand{\thanklesstitle}{}% full title text minus \thanks{}
8715 \newcommand{\thanklessauthor}{}% full author text minus \thanks{}
8716 \newcommand{\thanklesspublisher}{}% full publisher minus \thanks{}
8717 \newcommand{\@publisher}{}% full publisher with \thanks{}
8718 \newcommand{\thedata}{\today}
8719 \bidi@patch@AfterPackage{bidi}{%
8720 \renewcommand{\thanks}[1]{\footnote{#1}}
8721 \renewcommand{\LTRthanks}[1]{\LTRfootnote{#1}}
8722 \renewcommand{\RTLthanks}[1]{\RTLfootnote{#1}}
8723 }
8724 \renewcommand{\title}[2][{}]{%
8725   \gdef\@title{#2}%
8726   \begingroup%
8727     % TODO store contents of \thanks command
8728     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8729     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8730     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8731     \protected@xdef\thanklesstitle{#2}%
8732   \endgroup%
8733   \ifthenelse{\isempty{#1}}%
8734     {\renewcommand{\plaintitle}{\thanklesstitle}}% use thankless title
8735     {\renewcommand{\plaintitle}{#1}}% use provided plain-text title
8736   \@ifundefined{hypersetup}%
8737     {}% hyperref is not loaded; do nothing

```



```

8738     {\hypersetup{pdftitle={\plaintitle}}}% set the PDF metadata title
8739 }
8740 \let\@author\@empty% suppress default latex.ltx ``no author'' warning
8741 \renewcommand{\author}[2][]{%
8742   \ifthenelse{\isempty{#2}}{\gdef\@author{#2}}%
8743   \begingroup%
8744     % TODO store contents of \thanks command
8745     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8746     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8747     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8748     \protected@xdef\thanklessauthor{#2}%
8749   \endgroup%
8750   \ifthenelse{\isempty{#1}}%
8751     {\renewcommand{\plainauthor}{\thanklessauthor}}% use thankless author
8752     {\renewcommand{\plainauthor}{#1}}% use provided plain-text author
8753   \@ifundefined{hypersetup}%
8754     {}% hyperref is not loaded; do nothing
8755     {\hypersetup{pdfauthor={\plainauthor}}}% set the PDF metadata author
8756 }
8757 \renewcommand{\date}[1]{%
8758   \gdef\@date{#1}%
8759   \begingroup%
8760     % TODO store contents of \thanks command
8761     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8762     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8763     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8764     \protected@xdef\thedata{#1}%
8765   \endgroup%
8766 }
8767 %%
8768 % Provides a \publisher command to set the publisher
8769 \newcommand{\publisher}[2][]{%
8770   \gdef\@publisher{#2}%
8771   \begingroup%
8772     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8773     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8774     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8775     \protected@xdef\thanklesspublisher{#2}%
8776   \endgroup%
8777   \ifthenelse{\isempty{#1}}%
8778     {\renewcommand{\plainpublisher}{\thanklesspublisher}}% use thankless publisher
8779     {\renewcommand{\plainpublisher}{#1}}% use provided plain-text publisher
8780 }
8781 %%
8782 % Produces a full title page
8783 \newcommand{\maketitlepage}[0]{%
8784   \cleardoublepage%
8785   {%
8786     \bfseries%
8787     \begin{fullwidth}%
8788       \fontsize{18}{20}\selectfont\par\noindent\thanklessauthor%
8789       \vspace{11.5pc}%
8790       \fontsize{36}{40}\selectfont\par\noindent\thanklesstitle%
8791       \vfill%

```



```

8792 \fontsize{14}{16}\selectfont\par\noindent\thanklesspublisher%
8793 \end{fullwidth}%
8794 }
8795 \thispagestyle{empty}%
8796 \clearpage%
8797 }
8798 %%
8799 % Title block
8800 \bidi@AfterEndPreamble{%
8801 \renewcommand{\maketitle}{%
8802 \newpage%
8803 \global\@topnum\z@% prevent floats from being placed at the top of the page
8804 \begingroup%
8805 \setlength{\parindent}{0pt}%
8806 \setlength{\parskip}{4pt}%
8807 \let\@title\@empty%
8808 \let\@author\@empty%
8809 \let\@date\@empty%
8810 \gdef\@title{\LARGE\itshape\@title\par}%
8811 \gdef\@author{\Large\itshape\@author\par}%
8812 \gdef\@date{\Large\itshape\@date\par}%
8813 \@title%
8814 \@author%
8815 \@date%
8816 \endgroup%
8817 \thispagestyle{plain}% suppress the running head
8818 }%
8819 }
8820 %%
8821 % Title page (if the 'titlepage' option was passed to the bidentitufte-handout
8822 % class.)
8823 \bidi@AfterEndPreamble{%
8824 \ifthenelse{\boolean{@bidentitufte@titlepage}}
8825 {\renewcommand{\maketitle}{\maketitlepage}}
8826 {}
8827 }
8828 %%
8829 % When \cleardoublepage is called, produce a blank (empty) page -- i.e.,
8830 % without headers and footers
8831 \def\cleardoublepage{\clearpage\if@twoside\ifodd\c@page\else
8832 \hbox{}
8833 %\vspace*{\fill}
8834 %\begin{center}
8835 % This page intentionally contains only this sentence.
8836 %\end{center}
8837 %\vspace{\fill}
8838 \thispagestyle{empty}
8839 \newpage
8840 \if@twocolumn\hbox{}\newpage\fi\fi\fi}

```

59 File bidentitufte-handout.cls

```

8841 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8842 \ProvidesClass{bidentitufte-handout}[2011/06/18 v0.1 bidentitufte-handout class]

```



```

8843 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
8844 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditytfloat}}
8845 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditytetoc}}
8846 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditythyperref}}
8847 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidityttetitle}}
8848 \ProcessOptions\relax
8849 \LoadClass{article}
8850 \RequirePackage{biditytfloat}
8851 \RequirePackage{biditytesidenote}
8852 \RequirePackage{biditytetoc}
8853 \RequirePackage{biditytgeneralstructure}
8854 \RequirePackage{biditythyperref}
8855 \RequirePackage{bidityttetitle}
8856 \renewenvironment{abstract}
8857   {\begin{quotation}}
8858   {\end{quotation}}
8859 \AtBeginDocument{%
8860 \IfFileExists{bidityt-handout.cfg}
8861   {\input{bidityt-handout.cfg}
8862     \ClassInfo{bidityt-handout}{Loading bidityt-handout configuration file \@gobble}}
8863   {}%
8864 }

```

60 File bidityt-book.cls

```

8865 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8866 \ProvidesClass{bidityt-book}[2011/06/18 v0.1 bidityt-book class]
8867 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
8868 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditytfloat}}
8869 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditytetoc}}
8870 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditythyperref}}
8871 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidityttetitle}}
8872 \ProcessOptions\relax
8873 \LoadClass{book}
8874 \RequirePackage{biditytfloat}
8875 \RequirePackage{biditytesidenote}
8876 \RequirePackage{biditytetoc}
8877 \RequirePackage{biditytgeneralstructure}
8878 \RequirePackage{biditythyperref}
8879 \RequirePackage{bidityttetitle}
8880 %%
8881 % Set up any book-specific stuff now
8882 %%
8883 % The front matter in Tufte's /Beautiful Evidence/ contains everything up
8884 % to the opening page of Chapter 1. The running heads, when they appear,
8885 % contain only the (arabic) page number in the outside corner.
8886 %\newif\if@mainmatter \@mainmattertrue
8887 \renewcommand\frontmatter{%
8888   \cleardoublepage%
8889   \@mainmatterfalse%
8890   \pagenumbering{arabic}%
8891   %\pagestyle{plain}%
8892   \fancyhf{}%
8893   \ifthenelse{\boolean{@biditytfloat@twoside}}%

```



```

8894     {\fancyhead[LE,RO]{\thepage}}%
8895     {\fancyhead[RE,RO]{\thepage}}%
8896 }
8897 %%
8898 % The main matter in Tufte's /Beautiful Evidence/ doesn't restart the page
8899 % numbering---it continues where it left off in the front matter.
8900 \renewcommand\mainmatter{%
8901   \cleardoublepage%
8902   \@mainmattertrue%
8903   \fancyhf{}%
8904   \ifthenelse{\boolean{@bidituftefloat@twoside}}%
8905     {\renewcommand{\chaptermark}[1]{\markboth{##1}{}}}%
8906     {\fancyhead[LE]{\thepage\quad\smallcaps{\newlinetospace{\plaintitle}}}% book title
8907     {\fancyhead[RO]{\smallcaps{\newlinetospace{\leftmark}}\quad\thepage}}% chapter title
8908     {\fancyhead[RE,RO]{\smallcaps{\newlinetospace{\plaintitle}}\quad\thepage}}% book title
8909 }
8910 %%
8911 % The back matter contains appendices, indices, glossaries, endnotes,
8912 % bibliographies, list of contributors, illustration credits, etc.
8913 \renewcommand\backmatter{%
8914   \if@openright%
8915     \cleardoublepage%
8916   \else%
8917     \clearpage%
8918   \fi%
8919   \@mainmatterfalse%
8920 }
8921 %%
8922 % Only show the chapter titles in the table of contents
8923 \setcounter{tocdepth}{0}
8924 \AtBeginDocument{%
8925   \IfFileExists{biditufte-book.cfg}
8926   {\input{biditufte-book.cfg}
8927     \ClassInfo{biditufte-book}{Loading biditufte-book configuration file \@gobble}}
8928   {}%
8929 }

```

61 File bidipoem.sty

```

8930 \NeedsTeXFormat{LaTeX2e}
8931 \ProvidesPackage{bidipoem}%
8932 [2019/03/03 v1.0 Environments for typesetting Persian traditional and modern poems]
8933
8934 % Usage:
8935 %
8936 % \Setversedim #1#2 % define the layout (within a group):
8937 % #1 = length of both half-verses
8938 % #2 = separation distance = length of a connection, if present
8939 % Variant:
8940 % \Setversedim #1[#2]#3 % for half-verses of unequal length
8941 % #1 = length of first (=right) half-verse
8942 % #2 = length of second (=left) half-verse
8943 % #3 = separation distance = length of a connection, if present
8944 %

```



```

8945 % \traditionalhalfverses #1#2 % typeset two separated half-verses
8946 % #1 = text of first (=right) half-verse
8947 % #2 = text of second (=left) half-verse
8948 % Variant:
8949 % \traditionalhalfverses #1[#2]#3 % typeset two connected half-verses
8950 % #1 = text of first (=right) half-verse
8951 % #2 = text of connection
8952 % #3 = text of second (=left) half-verse
8953 %
8954 % Alternative (if preferred):
8955 %
8956 % \traditionalconnverses #1#2#3 % = \traditionalhalfverses #1[#2]#3
8957
8958
8959 \newcommand*{\bidipoem@spreadbox}[2]{\hbox to #1{#2}}
8960
8961 % define the layout, verses will be centered
8962
8963 \newdimen \bidipoem@hvlen \newdimen \bidipoem@hvsep
8964 \newdimen \bidipoem@hvind \newdimen \bidipoem@@hvlen
8965
8966 \newcommand*{\Setversedim}[2]{% set lengths of half-verse, [separation]
8967 \bidipoem@hvind \textwidth
8968 \bidipoem@hvlen #1\relax \advance \bidipoem@hvind -\bidipoem@hvlen
8969 \ifx [#2\def \bidipoem@next {\bidipoem@set@verseI []}\else
8970 \bidipoem@@hvlen \bidipoem@hvlen \def \bidipoem@next {\bidipoem@set@@verse {#2}}\fi \bidipoem@
8971
8972 \def \bidipoem@set@verseI [#1]{% optional parameter
8973 \bidipoem@@hvlen #1\relax \bidipoem@set@@verse }
8974
8975 \newcommand*{\bidipoem@set@@verse}[1]{% separation
8976 \advance \bidipoem@hvind -\bidipoem@@hvlen \bidipoem@hvsep #1\relax
8977 \advance \bidipoem@hvind -\bidipoem@hvsep \divide \bidipoem@hvind 2 }
8978
8979 \newcommand*{\traditionalconnverses}[3]{% first half-verse, connection, second half-verse
8980 \ifdim Opt > \bidipoem@hvind %
8981 \bidipoem@spreadbox \bidipoem@hvlen {#1}\\ \hfill % first block
8982 \else
8983 \noindent \hspace \bidipoem@hvind \relax \bidipoem@spreadbox \bidipoem@hvlen {#1}\fi
8984 \bidipoem@spreadbox \bidipoem@hvsep {#2}% separator
8985 \bidipoem@spreadbox \bidipoem@@hvlen {#3}% second block
8986 \par }
8987
8988 % macro for two half verses
8989 \newcommand*{\traditionalhalfverses}[2]{% optional parameter?
8990 \ifx [#2\def \bidipoem@half@verses@next {\bidipoem@half@verses {#1}}%
8991 \else \def \bidipoem@half@verses@next {\bidipoem@half@verses {#1}[\hfill]{#2}}\fi%
8992 \bidipoem@half@verses@next}
8993
8994 \def \bidipoem@half@verses #1[#2]#3{% first[mid]second
8995 \traditionalconnverses {#1}-{#2}-{#3}}
8996
8997
8998 {\catcode\^M=\active % these lines must end with %

```



```

8999 \gdef\traditionalpoem@obeylines{\catcode\^^M\active \let^^M\traditionalpoem@par}%
9000 \global\let^^M\traditionalpoem@par} % this is in case ^^M appears in a \write
9001 {\catcode\^^M=\active % these lines must end with %
9002 \gdef\modernpoem@obeylines{\catcode\^^M\active \let^^M\modernpoem@par}%
9003 \global\let^^M\modernpoem@par} % this is in case ^^M appears in a \write
9004 \def\poemcolsepskip{.1\versewidth plus .1\versewidth minus .05\versewidth}
9005 \def\poemmarginskip{1em plus 1fil minus 1em}
9006 \def\poemextrabaseskip{0\baselineskip}
9007 \def\poemskip{\medskip}
9008 \newcommand{\bidipoem@openbox}{\leavevmode
9009 \hbox to.77778em{%
9010 \hfil\vrule
9011 \vbox to.675em{\hrule width.6em\vfil\hrule}%
9012 \vrule\hfil}}
9013 \def\poemblocksep{\quad\hbox{\bidipoem@openbox}}
9014 \newdimen\versewidth
9015 \newtoks\bidipoem@p@ftn
9016 \def\poem@verse#1{%
9017 \ifdim\wd#1>\new@poem@width
9018 \xdef\new@poem@width{\the\wd#1}%
9019 \ifdim\new@poem@width>\poem@width
9020 \xdef\poem@width{\new@poem@width}%
9021 \global\let\poem@needrun\relax
9022 \fi
9023 \fi
9024 \hbox to\poem@width{\unhbox#1}%
9025 \global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn%
9026 }
9027 \def\poem@linebegin{\vadjust{}\hskip\@flushglue\hskip\poemmarginskip\relax}
9028 \def\poem@lineend{\nobreak\hskip\poemmarginskip\hskip\@flushglue\vadjust{}}
9029 \def\poem@lineversesep{%
9030 \nobreak
9031 \hskip\z@ plus 1filll%
9032 \penalty600%
9033 \hskip\poemcolsepskip
9034 \hskip\z@ plus -2filll%
9035 \vadjust{}}%
9036 \nobreak
9037 \hskip\z@ plus 1filll%
9038 }
9039 \def\poem@lineparsebegin{%
9040 \halign\bgroup
9041 \global\setbox\verse@i=\hbox{%
9042 \let\@footnotetext\bidipoem@p@ftntext%
9043 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9044 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9045 \let\@xfootnotenext\bidipoem@p@xftntext%
9046 \let\@xfootnote\bidipoem@p@xfootnote%
9047 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9048 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9049 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9050 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9051 \ignorespaces##\unskip}&&
9052 \global\setbox\verse@ii=\hbox{%

```




```

9053 \let\@footnotetext\bidipoem@p@ftntext%
9054 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9055 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9056 \let\@xfootnotenext\bidipoem@p@xftntext%
9057 \let\@xfootnote\bidipoem@p@xfootnote%
9058 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9059 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9060 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9061 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9062 \ignorespaces##\unskip}
9063 \cr
9064 }
9065 \def\poem@lineparseend{%
9066 \crr\egroup
9067 \vskip-\baselineskip
9068 }
9069 \def\traditionalpoem@cr{%
9070 \cr\poem@line
9071 }
9072 \newbox\verse@i
9073 \newbox\verse@ii
9074 \newif\ifpoem@started
9075
9076 \def\poem@line{%
9077 \poem@lineparseend
9078 \ifdim\wd\verse@i>\z@\global\poem@startedtrue\fi
9079 \ifdim\wd\verse@ii>\z@\global\poem@startedtrue\fi
9080 \ifpoem@started
9081 \ifdim\wd\verse@ii>\z@\else
9082 \nopagebreak[3]
9083 \fi
9084 \leavevmode
9085 \poem@linebegin
9086 \poem@verse\verse@i
9087 \ifdim\wd\verse@ii>\z@
9088 \poem@lineversesep
9089 \poem@verse\verse@ii
9090 \fi
9091 \poem@lineend
9092 % \nopagebreak
9093 \par
9094 \vskip\poemextrabaseskip
9095 \fi
9096 \poem@lineparsebegin
9097 }
9098 \def\@traditionalpoem{%
9099 \stepcounter{poem@no}
9100 \ifnum\max@poem@no<\number\c@poem@no%
9101 \xdef\poem@width{\z@}%
9102 \else
9103 \xdef\poem@width{\poem@prop{poem@width}}%
9104 \fi
9105 \xdef\new@poem@width{\z@}%
9106 \global\versewidth=\poem@width

```



```

9107 \poemskip\par
9108 \begingroup
9109 \tabskip=\z@
9110 \parskip=\z@
9111 \parindent=\z@
9112 \parfillskip=\z@
9113 \rightskip=\z@
9114 \leftskip=\z@
9115 \widowpenalty=10000% No break between verses of the same line.
9116 \clubpenalty=10000% Same as above. Not really needed.
9117 \def\newblock{\hfil\poemblocksep\hfil\null}%
9118 \def\traditionalpoem@par{\traditionalpoem@cr}% Redefine \par for possible \obeylines
9119 \def\{\global\poem@startedtrue\traditionalpoem@cr}%
9120 \global\poem@startedfalse
9121 \csname poem@obeylines\endcsname
9122 \let\poem@obeylines\relax
9123 \poem@lineparsebegin
9124 }
9125 \def\@endtraditionalpoem{%
9126 \cr
9127 \ifdim\wd\verse@i>\z@\poem@line\else\ifdim\wd\verse@ii>\z@\poem@line\else
9128 \noalign{%
9129 \skip0=\poemextrabaselineskip
9130 \vskip-\skip0
9131 \vskip-\baselineskip
9132 }%
9133 \fi\fi
9134 \poem@lineparseend
9135 \endgroup
9136 \par
9137 \vskip\baselineskip
9138 \poemskip
9139 \ifdim\new@poem@width<\poem@width
9140 \global\let\poem@needrun\relax
9141 \fi
9142 \poem@write@aux{\poem@width\romannumeral\c@poem@no}{\new@poem@width}%
9143 \ifx\AtEndDocument\undefined\poem@finish\fi
9144 \@endparenv
9145 }
9146
9147
9148 \long\def\bidipoem@p@ftntext#1{%
9149 \edef\@temp{x{\the\bidipoem@p@ftn\noexpand\footnotetext[\the\csname c@\@mpfn\endcsname]}}%
9150 \global\bidipoem@p@ftn\expandafter{\@temp{x{#1}}}%
9151 \long\def\bidipoem@p@LTRftntext#1{%
9152 \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\@mpfn\endcsname]}}%
9153 \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
9154 \long\def\bidipoem@p@RTLftntext#1{%
9155 \edef\@tempxii{\the\bidipoem@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\@mpfn\endcsname]}}%
9156 \global\bidipoem@p@ftn\expandafter{\@tempxii{#1}}}%
9157
9158 \long\def\bidipoem@p@xftntext[#1]#2{%
9159 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\footnotetext[#1]{#2}}}
9160

```



```

9161 \long\def\bidipoem@p@xLTRftntext[#1]#2{%
9162   \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\LTRfootnotetext[#1]{#2}}
9163
9164 \long\def\bidipoem@p@xRTLftntext[#1]#2{%
9165   \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\RTLfootnotetext[#1]{#2}}
9166
9167 \def\bidipoem@p@xfootnote[#1]{%
9168   \begingroup
9169     \csname c@\@mpfn\endcsname #1\relax
9170     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9171   \endgroup
9172   \@footnotemark\bidipoem@p@xftntext[#1]}
9173
9174 \def\bidipoem@p@xLTRfootnote[#1]{%
9175   \begingroup
9176     \csname c@\@mpfn\endcsname #1\relax
9177     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9178   \endgroup
9179   \@footnotemark\bidipoem@p@xLTRftntext[#1]}
9180
9181 \def\bidipoem@p@xRTLfootnote[#1]{%
9182   \begingroup
9183     \csname c@\@mpfn\endcsname #1\relax
9184     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9185   \endgroup
9186   \@footnotemark\bidipoem@p@xRTLftntext[#1]}
9187
9188
9189
9190 \newenvironment{traditionalpoem}{\@traditionalpoem}{\@endtraditionalpoem}
9191 \expandafter\def\csname traditionalpoem*\endcsname{\let\poem@obeylines=\traditionalpoem@obey
9192 \expandafter\def\csname endtraditionalpoem*\endcsname{\endtraditionalpoem}
9193 \def\poem@finish{%
9194 \poem@write@aux{max@poem@no}{\number\c@poem@no}%
9195 \ifx\poem@needrun\relax
9196 \PackageWarning{bidipoem}{Unjustified poem.  Rerun TeX to get poem right}%
9197 \global\let\poem@needrun\undefined
9198 \fi
9199 }
9200 \ifx\AtEndDocument\undefined\else\AtEndDocument\poem@finish\fi
9201 \newcounter{poem@no}\setcounter{poem@no}{\z@}
9202 \ifx\max@poem@no\undefined
9203   \def\max@poem@no{0}%
9204 \fi
9205 \newcommand{\poem@prop}[1]{\@nameuse{#1\romannumeral\c@poem@no}}
9206 \newcommand{\poem@write@aux}[2]{%
9207   \def\@x{\immediate\write\@auxout{\global\noexpand\@namedef{#1}{#2}}}%
9208   \@x
9209 }
9210 \def\@modernpoem{%
9211 \par
9212 \begingroup
9213 \parskip=\z@
9214 \parindent=\z@

```



```

9215 \def\[{ \@settab\@tabplus\ignorespaces}%
9216 \def\]\{ \@tabminus\ignorespaces}%
9217 \def\newblock{\poemblocksep}%
9218 \let\newpoem@tabcr\@tabcr
9219 \def\modernpoem@par{% Redefine \par for possible \obeylines
9220 \ifpoem@started\else
9221 \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9222 \@stopfield
9223 \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9224 \@contfield
9225 \fi
9226 \fi
9227 \ifpoem@started\newpoem@tabcr\fi}%
9228 \def\@tabcr{\global\poem@startedtrue\newpoem@tabcr}%
9229 \global\poem@startedfalse
9230 \csname poem@obeylines\endcsname
9231 \let\poem@obeylines\relax
9232 \begin{tabbing}%
9233 }
9234 \def\@endmodernpoem{%
9235 \global\poem@startedfalse
9236 \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9237 \@stopfield
9238 \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9239 \@contfield
9240 \fi
9241 \ifpoem@started\else\let\@stopline\@stopfield\fi
9242 \end{tabbing}%
9243 \endgroup
9244 \par
9245 \if@nparlist \else
9246 \ifdim\lastskip >\z@
9247 \@tempskipa\lastskip \vskip -\lastskip
9248 \advance\@tempskipa\parskip \advance\@tempskipa -\@outerparskip
9249 \vskip\@tempskipa
9250 \fi
9251 \@endparenv
9252 \fi
9253 }
9254 \newenvironment{modernpoem}{\@modernpoem}{\@endmodernpoem}
9255 \expandafter\def\csname modernpoem*\endcsname{\let\poem@obeylines=\modernpoem@obeylines\mode
9256 \expandafter\def\csname endmodernpoem*\endcsname{\endmodernpoem}
9257 \gdef\@startfield{%
9258 \global\setbox\@curfield\hbox\bgroup%
9259 \let\@footnotetext\bidipoem@p@ftntext%
9260 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9261 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9262 \let\@xfootnotenext\bidipoem@p@xftntext%
9263 \let\@xfootnote\bidipoem@p@xfootnote%
9264 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9265 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9266 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9267 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9268 \color@begingroup}

```



```

9269 \gdef\@stopfield{%
9270   \color@endgroup\egroup\global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn}
9271 \gdef\@contfield{%
9272   \global\setbox\@curfield\hbox\bgroup%
9273   \let\@footnotetext\bidipoem@p@ftntext%
9274   \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9275   \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9276   \let\@xfootnotenext\bidipoem@p@xftntext%
9277   \let\@xfootnote\bidipoem@p@xfootnote%
9278   \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9279   \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9280   \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9281   \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9282   \color@begingroup\unhbox\@curfield}

```

62 File boek3-xetex-bidi.def

```

9283 \ProvidesFile{boek3-xetex-bidi.def}[2025/09/30 v0.5 bidi adaptations for boek3 class for XeTeX]
9284 \renewenvironment{theindex}{%
9285   \if@twocolumn
9286     \@restonecolfalse
9287   \else
9288     \@restonecoltrue
9289   \fi
9290   \columnseprule \z@
9291   \columnsep 35\p@
9292   \twocolumn[\@makeschapterhead{\indexname}]%
9293   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9294   \thispagestyle{plain}\parindent\z@
9295   \parskip\z@ \@plus .3\p@\relax
9296   \let\item\@idxitem
9297 }{%
9298   \if@restonecol\onecolumn\else\clearpage\fi}
9299 \renewcommand*{head@style}{%
9300   \interlinepenalty \@M
9301   \hyphenpenalty=\@M \exhyphenpenalty=\@M
9302   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9303 \renewcommand*\@regtocline[3]{%
9304   \ifnum #1>\c@tocdepth
9305   \else
9306     \vskip\z@\@plus.2\p@
9307     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9308     \if@RTL\rightskip\else\leftskip\fi\unitindent
9309     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
9310     \parfillskip\z@
9311     \@tempdima\unitindent
9312     \parindent\z@
9313     \leavevmode
9314     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9315     \hskip 1em \nobreak{\slshape #3}\par
9316   }%
9317   \fi}
9318 \if@oldtoc
9319 \renewcommand*\l@part[2]{%

```



```

9320 \ifnum \c@tocdepth >-2\relax
9321 \addpenalty{-\@highpenalty}%
9322 \addvspace{2.25em \@plus\p@}%
9323 \begingroup
9324 \setlength\@tempdima{3em}%
9325 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9326 \parfillskip -\@pnumwidth
9327 {\leavevmode
9328 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9329 \nobreak
9330 \global\@nobreaktrue
9331 \everypar{\global\@nobreakfalse\everypar{}}%
9332 \endgroup
9333 \fi}
9334 \else
9335 \renewcommand*\l@part{%
9336 \ifnum \c@tocdepth >-2\relax
9337 \addpenalty{-\@highpenalty}%
9338 \addvspace{2.25em \@plus \p@}%
9339 \@regtocline{0}%
9340 \fi}
9341 \fi
9342 \if@oldtoc
9343 \renewcommand*\l@chapter[2]{%
9344 \addpenalty{-\@highpenalty}%
9345 \vskip 1.0em \@plus\p@
9346 \setlength\@tempdima{1.5em}%
9347 \begingroup
9348 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9349 \parfillskip -\@pnumwidth
9350 \leavevmode \bfseries
9351 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9352 \hskip -\if@RTL\rightskip\else\leftskip\fi
9353 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9354 \penalty\@highpenalty
9355 \endgroup}
9356 \else
9357 \renewcommand*\l@chapter{\@regtocline{0}}
9358 \fi
9359 \renewenvironment{abstract}{%
9360 \titlepage
9361 \null\vfil
9362 \section*{\SectFont \abstractname}
9363 \noindent\ignorespaces}
9364 {\par\vfil\null\endtitlepage}
9365 \renewenvironment{thebibliography}[1]
9366 {\chapter*{\bibname}%
9367 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9368 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9369 \bidi@thebibliography@font@hook%
9370 \list{\@biblabel{\@arabic\c@enumiv}}%
9371 {\settowidth\labelwidth{\@biblabel{#1}}%
9372 \leftmargin\labelwidth
9373 \advance\leftmargin\labelsep

```



```

9374         \@openbib@code
9375         \usecounter{enumiv}%
9376         \let\p@enumiv\@empty
9377         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9378     \sloppy\clubpenalty4000\widowpenalty4000%
9379     \sfcode\.\@m}
9380     {\def\@noitemerr
9381      {\@latex@warning{Empty `thebibliography' environment}}}%
9382     \endlist}
9383 \renewcommand*\left@footnoterule{%
9384     \kern-3\p@
9385     \kern.5\baselineskip
9386     \hrule\@width\unitindent
9387     \kern.4\baselineskip
9388 }
9389 \renewcommand*\right@footnoterule{%
9390     \kern-3\p@
9391     \kern.5\baselineskip
9392     \nointerlineskip
9393     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9394     \kern.4\baselineskip}
9395 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9396 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9397 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9398 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9399 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9400 \renewcommand*\theequation{%
9401     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9402 \renewcommand*\thefigure{%
9403     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9404 \renewcommand*\thetable{%
9405     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
9406 \renewcommand*\maketitle{%
9407     \begin{titlepage}%
9408         \let\footnotesize\small
9409         \let\right@footnoterule\relax
9410         \let\left@footnoterule\relax
9411         \let\textwidth\footnoterule\relax
9412         \let \footnote \thanks
9413         \long\def\@makefntext##1{\parindent\z@
9414             \def\labelitemi{\textendash}\@revlabeltrue
9415             \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9416         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9417         \if@compatibility\setcounter{page}{0}\fi
9418         \null\vfil
9419         \vskip 60\p@
9420         \begin{center}%
9421             \TitleFont
9422             {\LARGE \def\\{\penalty -\@M}
9423                 \if@allcaps
9424                     \expandafter\uc@nothanks\@title\thanks\relax
9425                 \else
9426                     \@title
9427                 \fi\par}%

```



```

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

```

63 File boek-xetex-bidi.def

```

9461 \ProvidesFile{boek-xetex-bidi.def}[2025/09/30 v0.5 bidi adaptations for boek class for XeTeX]
9462 \renewenvironment{theindex}{%
9463 \if@twocolumn
9464 \@restonecolfalse
9465 \else
9466 \@restonecoltrue
9467 \fi
9468 \columnseprule \z@
9469 \columnsep 35\p@
9470 \twocolumn[\@makeschapterhead{\indexname}]%
9471 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9472 \thispagestyle{plain}\parindent\z@
9473 \parskip\z@ \@plus .3\p@\relax
9474 \let\item\@idxitem
9475 }{%
9476 \if@restonecol\onecolumn\else\clearpage\fi}
9477 \renewcommand*\head@style{%
9478 \interlinepenalty \@M

```




```

9479 \hyphenpenalty=\@M \exhyphenpenalty=\@M
9480 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9481 \renewcommand*\@regtocline[3]{%
9482 \ifnum #1>\c@tocdepth
9483 \else
9484 \vskip\z@ \@plus.2\p@
9485 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9486 \if@RTL\rightskip\else\leftskip\fi\unitindent
9487 \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
9488 \parfillskip\z@
9489 \@tempdima\unitindent
9490 \parindent\z@
9491 \leavevmode
9492 \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9493 \hskip 1em \nobreak{\slshape #3}\par
9494 }%
9495 \fi}
9496 \if@oldtoc
9497 \renewcommand*\l@part[2]{%
9498 \ifnum \c@tocdepth >-2\relax
9499 \addpenalty{-\@highpenalty}%
9500 \addvspace{2.25em \@plus\p@}%
9501 \begingroup
9502 \setlength\@tempdima{3em}%
9503 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9504 \parfillskip -\@pnumwidth
9505 {\leavevmode
9506 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9507 \nobreak
9508 \global\@nobreaktrue
9509 \everypar{\global\@nobreakfalse\everypar{}}%
9510 \endgroup
9511 \fi}
9512 \else
9513 \renewcommand*\l@part{%
9514 \ifnum \c@tocdepth >-2\relax
9515 \addpenalty{-\@highpenalty}%
9516 \addvspace{2.25em \@plus \p@}%
9517 \@regtocline{0}%
9518 \fi}
9519 \fi
9520 \if@oldtoc
9521 \renewcommand*\l@chapter[2]{%
9522 \addpenalty{-\@highpenalty}%
9523 \vskip 1.0em \@plus\p@
9524 \setlength\@tempdima{1.5em}%
9525 \begingroup
9526 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9527 \parfillskip -\@pnumwidth
9528 \leavevmode \bfseries
9529 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9530 \hskip -\if@RTL\rightskip\else\leftskip\fi
9531 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9532 \penalty\@highpenalty

```



```

9533 \endgroup}
9534 \else
9535 \renewcommand*\l@chapter{\@regtocline{0}}
9536 \fi
9537 \renewcommand*\left@footnoterule{%
9538 \kern-3\p@
9539 \kern.5\baselineskip
9540 \hrule\@width\unitindent
9541 \kern.4\baselineskip
9542 }
9543 \renewcommand*\right@footnoterule{%
9544 \kern-3\p@
9545 \kern.5\baselineskip
9546 \nointerlineskip
9547 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9548 \kern.4\baselineskip}
9549 \renewenvironment{abstract}{%
9550 \titlepage
9551 \null\vfil
9552 \section*\SectFont \abstractname}
9553 \noindent\ignorespaces}
9554 {\par\vfil\null\endtitlepage}
9555 \renewenvironment{thebibliography}[1]
9556 {\chapter*\bibname}%
9557 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9558 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9559 \bidi@thebibliography@font@hook%
9560 \list{\@biblabel{\@arabic\c@enumiv}}%
9561 {\settowidth\labelwidth{\@biblabel{#1}}%
9562 \leftmargin\labelwidth
9563 \advance\leftmargin\labelsep
9564 \@openbib@code
9565 \usecounter{enumiv}%
9566 \let\p@enumiv\@empty
9567 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9568 \sloppy\clubpenalty4000\widowpenalty4000%
9569 \sfcode\.\@m}
9570 {\def\@noitemerr
9571 {\@latex@warning{Empty `thebibliography' environment}}}%
9572 \endlist}
9573 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9574 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9575 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9576 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9577 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9578 \renewcommand*\theequation{%
9579 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9580 \renewcommand*\thefigure{%
9581 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
9582 \renewcommand*\thetable{%
9583 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
9584 \renewcommand*\maketitle{%
9585 \begin{titlepage}%
9586 \let\footnotesize\small

```



```

9587 \let\right@footnoterule\relax
9588 \let\left@footnoterule\relax
9589 \let\textwidth@footnoterule\relax
9590 \let \footnote \thanks
9591 \long\def\@makefntext##1{\parindent\z@
9592 \def\labelitemi{\textendash}\@revlabeltrue
9593 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9594 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9595 \if@compatibility\setcounter{page}{0}\fi
9596 \null\vfil
9597 \vskip 60\p@
9598 \begin{center}%
9599 \TitleFont
9600 {\LARGE \def\\{\penalty -\@M}
9601 \if@allcaps
9602 \expandafter\uc@nothanks\@title\thanks\relax
9603 \else
9604 \@title
9605 \fi\par}%
9606 \vskip 3em%
9607 {\large
9608 \lineskip .75em \parindent\z@
9609 \begin{tabular}[t]{c}%
9610 \if@allcaps
9611 \expandafter\uc@authornothanks\@author\and\relax
9612 \else
9613 \@author
9614 \fi
9615 \end{tabular}\par}%
9616 \vskip 1.5em%
9617 {\large
9618 \if@allcaps
9619 \uppercase\expandafter{\@date}%
9620 \else
9621 \@date
9622 \fi\par}%
9623 \end{center}\par
9624 \@thanks
9625 \vfil\null
9626 \end{titlepage}%
9627 \setcounter{footnote}{0}%
9628 \global\let\thanks\relax
9629 \global\let\maketitle\relax
9630 \global\let\@thanks\@empty
9631 \global\let\@author\@empty
9632 \global\let\@title\@empty
9633 \global\let\@date\@empty
9634 \global\let\title\relax
9635 \global\let\author\relax
9636 \global\let\date\relax
9637 \global\let\and\relax
9638 }

```



64 File `bookest-xetex-bidi.def`

```
9639 \ProvidesFile{bookest-xetex-bidi.def}[2010/07/25 v0.4 bidi adaptations for bookest class for
9640 \def\@makechapterhead#1{%
9641   \vspace*{20\p@}
9642   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9643     \ifnum \c@secnumdepth >\m@ne
9644       \if@mainmatter
9645         {\colorA\huge\scshape \@chapapp\space \thechapter}
9646         \par\nobreak
9647         \vskip 10\p@
9648       \fi
9649     \fi
9650     \interlinepenalty\@M
9651   {\colorB\hrule}
9652   \vskip 15\p@
9653   \if@RTL\begin{flushleft}\else\begin{flushright}\fi
9654     {\colorA\Huge \bfseries #1}\par\nobreak
9655   \if@RTL\end{flushleft}\else\end{flushright}\fi
9656   \vskip 5\p@
9657   {\colorB\hrule}
9658   \vskip 30\p@
9659   }}
9660 \def\@makeschapterhead#1{%
9661   \vspace*{20\p@}
9662   {\parindent \z@ \raggedright \normalfont
9663     {\colorB\hrule}
9664     \vskip 15\p@
9665     \begin{center}
9666       {\colorA\Huge \bfseries #1}\par\nobreak
9667     \end{center}
9668     \vskip 5\p@
9669     {\colorB\hrule}
9670     \vskip 30\p@
9671   }}
```

65 File `book-xetex-bidi.def`

```
9672 \ProvidesFile{book-xetex-bidi.def}[2025/12/19 v1.6 bidi adaptations for standard book class
9673 \renewenvironment{theindex}
9674   {\if@twocolumn
9675     \@restonecolfalse
9676   \else
9677     \@restonecoltrue
9678   \fi
9679   \columnseprule \z@
9680   \columnsep 35\p@
9681   \twocolumn[\@makeschapterhead{\indexname}]%
9682   \@mkboth{\MakeUppercase\indexname}%
9683     {\MakeUppercase\indexname}%
9684   \thispagestyle{plain}\parindent\z@
9685   \parskip\z@ \@plus .3\p@\relax
9686   \let\item\@idxitem}
9687   {\if@restonecol\onecolumn\else\clearpage\fi}
```



```

9688 \IfClassLoadedF{bookest}{%
9689   \if@titlepage
9690     \renewcommand\maketitle{\begin{titlepage}%
9691       \let\footnotesize\small
9692       \let\right@footnoterule\relax
9693       \let\left@footnoterule\relax
9694       \let\textwidth@footnoterule\relax
9695       \let \footnote \thanks
9696       \let \LTRfootnote \LTRthanks
9697       \let \RTLfootnote \RTLthanks
9698       \null\vfil
9699       \vskip 60\p@
9700       \begin{center}%
9701         {\LARGE \@title \par}%
9702         \vskip 3em%
9703         {\large
9704           \lineskip .75em%
9705           \begin{tabular}[t]{c}%
9706             \@author
9707           \end{tabular}\par}%
9708         \vskip 1.5em%
9709         {\large \@date \par}%           % Set date in \large size.
9710       \end{center}\par
9711       \@thanks
9712       \vfil\null
9713     \end{titlepage}%
9714     \setcounter{footnote}{0}%
9715     \global\let\thanks\relax
9716     \global\let\LTRthanks\relax
9717     \global\let\RTLthanks\relax
9718     \global\let\maketitle\relax
9719     \global\let\@thanks\@empty
9720     \global\let\@author\@empty
9721     \global\let\@date\@empty
9722     \global\let\@title\@empty
9723     \global\let\title\relax
9724     \global\let\author\relax
9725     \global\let\date\relax
9726     \global\let\and\relax
9727 }
9728 \else
9729 \renewcommand\maketitle{\par
9730   \begingroup
9731     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
9732     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
9733     \long\def\@makefntext#1{\parindent 1em\noindent
9734       \hb@xt@1.8em{%
9735         \hss\@textsuperscript{\normalfont\@thefnmark}}#1}%
9736     \if@twocolumn
9737       \ifnum \col@number=\@ne
9738         \@maketitle
9739       \else
9740         \twocolumn[\@maketitle]%
9741       \fi

```



```

9742 \else
9743 \newpage
9744 \global\@topnum\z@ % Prevents figures from going at top of page.
9745 \maketitle
9746 \fi
9747 \thispagestyle{plain}\@thanks
9748 \endgroup
9749 \setcounter{footnote}{0}%
9750 \global\let\thanks\relax
9751 \global\let\LTRthanks\relax
9752 \global\let\RTLthanks\relax
9753 \global\let\maketitle\relax
9754 \global\let\@maketitle\relax
9755 \global\let\@thanks\@empty
9756 \global\let\@author\@empty
9757 \global\let\@date\@empty
9758 \global\let\@title\@empty
9759 \global\let\title\relax
9760 \global\let\author\relax
9761 \global\let\date\relax
9762 \global\let\and\relax
9763 }
9764 \def\@maketitle{%
9765 \newpage
9766 \null
9767 \vskip 2em%
9768 \begin{center}%
9769 \let \footnote \thanks
9770 \let \LTRfootnote \LTRthanks
9771 \let \RTLfootnote \RTLthanks
9772 {\LARGE \@title \par}%
9773 \vskip 1.5em%
9774 {\large
9775 \lineskip .5em%
9776 \begin{tabular}[t]{c}%
9777 \@author
9778 \end{tabular}\par}%
9779 \vskip 1em%
9780 {\large \@date}%
9781 \end{center}%
9782 \par
9783 \vskip 1.5em}
9784 \fi
9785 }
9786 \IfPackageLoadedF{tocloft}{%
9787 \renewcommand*\l@part[2]{%
9788 \ifnum \c@tocdepth >-2\relax
9789 \addpenalty{-\@highpenalty}%
9790 \addvspace{2.25em \@plus\p0}%
9791 \setlength\@tempdima{3em}%
9792 \begin{group
9793 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9794 \parfillskip -\@pnumwidth
9795 {\leavevmode

```



```

9796      \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9797      \nobreak
9798      \global\@nobreaktrue
9799      \everypar{\global\@nobreakfalse\everypar{}}%
9800  \endgroup
9801  \fi}
9802  \renewcommand*\l@chapter[2]{%
9803    \ifnum \c@tocdepth >\m@ne
9804      \addpenalty{-\@highpenalty}%
9805      \vskip 1.0em \plus\p@
9806      \setlength\@tempdima{1.5em}%
9807      \begingroup
9808        \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9809        \parfillskip -\@pnumwidth
9810        \leavevmode \bfseries
9811        \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9812        \hskip -\if@RTL\rightskip\else\leftskip\fi
9813        #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9814        \penalty\@highpenalty
9815      \endgroup
9816    \fi}
9817  }
9818  \renewcommand\left@footnoterule{%
9819    \kern-3\p@
9820    \hrule\@width.4\columnwidth
9821    \kern2.6\p@}
9822  \renewcommand\right@footnoterule{%
9823    \kern-3\p@
9824    \nointerlineskip
9825    \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
9826    \kern2.6\p@}
9827  \renewcommand\theequation
9828    {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
9829  \renewcommand \thefigure
9830    {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
9831  \renewcommand \thetable
9832    {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
9833  \renewcommand \thechapter {\@arabic\c@chapter}
9834  \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
9835  \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
9836  \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
9837  \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
9838  \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
9839  \def\@makechapterhead#1{%
9840    \vspace*{50\p@}%
9841    {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9842      \ifnum \c@secnumdepth >\m@ne
9843        \if@mainmatter
9844          \huge\bfseries \@chapapp\space \thechapter
9845          \par\nobreak
9846          \vskip 20\p@
9847        \fi
9848      \fi
9849      \interlinepenalty\@M

```



```

9850 \Huge \bfseries #1\par\nobreak
9851 \vskip 40\p@
9852 }}
9853 \def\@makeschapterhead#1{%
9854 \vspace*{50\p@}%
9855 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
9856 \normalfont
9857 \interlinepenalty\@M
9858 \Huge \bfseries #1\par\nobreak
9859 \vskip 40\p@
9860 }}
9861 \renewcommand\backmatter{%
9862 \if@openright
9863 \cleardoublepage
9864 \else
9865 \clearpage
9866 \fi
9867 \@mainmatterfalse}
9868 \IfPackageLoadedF{natbib}{%
9869 \renewenvironment{thebibliography}[1]
9870 {\chapter*{\bibname}%
9871 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9872 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9873 \bidi@thebibliography@font@hook%
9874 \list{\@biblabel{\@arabic\c@enumiv}}%
9875 {\settowidth\labelwidth{\@biblabel{#1}}%
9876 \leftmargin\labelwidth
9877 \advance\leftmargin\labelsep
9878 \@openbib@code
9879 \usecounter{enumiv}%
9880 \let\p@enumiv\@empty
9881 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
9882 \sloppy
9883 \clubpenalty4000
9884 \@clubpenalty \clubpenalty
9885 \widowpenalty4000%
9886 \sfcode\.\@m}
9887 {\def\@noitemerr
9888 {\@latex@warning{Empty `thebibliography' environment}}}%
9889 \endlist}
9890 }

```

66 File breqn-xetex-bidi.def

```

9891 \ProvidesFile{breqn-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for breqn package for X
9892 \def\@dmath[#1]{\if@RTL\@RTLfalse\fi%
9893 \everydisplay\expandafter{\the\everydisplay \display@setup}%
9894 \if@noskipsec \leavevmode \fi
9895 \if@inlabel \leavevmode \global\@inlabelfalse \fi
9896 \if\eq@group\else\eq@prelim\fi
9897 \setkeys{breqn}{#1}%
9898 \the\eqstyle
9899 \eq@setnumber
9900 \begingroup

```




```

9901 \eq@setup@a
9902 \eq@startup
9903 }
9904 \def\@dgroup[#1]{\if@RTL\@RTLfalse\fi%
9905 \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
9906 \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x
9907 \global\let\GRP@label\@empty
9908 \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@
9909 \global\grp@linewidth\z@\global\grp@wdNum\z@
9910 \global\let\grp@eqs@numbered\@False
9911 \global\let\grp@aligned\@True
9912 \global\let\grp@shiftnumber\@False
9913 \eq@prelim
9914 \setkeys{breqn}{#1}%
9915 \if\grp@hasNumber \grp@setnumber \fi
9916 }
9917 \def\@dseries[#1]{\if@RTL\@RTLfalse\fi%
9918 \let\display@setup\dseries@display@setup
9919 % Question: should this be the default for dseries???
9920 \global\eq@wdCond\z@
9921 \@dmath[layout={M},#1]%
9922 \mathsurround\z@\@math \penalty\@Mi
9923 \let\endmath\ends@math
9924 \def\premath{%
9925 \ifdim\lastskip<.3em \unskip
9926 \else\ifnum\lastpenalty<\@M \dquad\fi\fi
9927 }%
9928 \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%
9929 \ignorespaces
9930 }
9931 \def\eqnumform#1{\if@nonlatin\beginR\@RTLtrue\fi(#1\@@italiccorr)\if@nonlatin\endR\fi}
9932 \renewenvironment{dsuspend}{%
9933 \global\setbox\EQ@box\vbox\bgroup\if@nonlatin\@RTLtrue\fi \@parboxrestore
9934 \parshape 1 \displayindent \displaywidth\relax
9935 \hsize=\columnwidth \noindent\ignorespaces
9936 }{%
9937 \par\egroup
9938 \global\setbox\GRP@box\vbox{%
9939 \hbox{\copy\EQ@box\vtop{\unvbox\EQ@box}}%
9940 \unvbox\GRP@box
9941 }%
9942 \global\GRP@queue\@xp{\the\GRP@queue
9943 \@elt{\let\eq@isIntertext\@True}%
9944 }%
9945 }

```

67 File cals-xetex-bidi.def

```

9946 \ProvidesFile{cals-xetex-bidi.def}[2016/11/30 v0.4 bidi adaptations for cals package for XeT
9947 \renewcommand\cals@setup@alignment[1]{%
9948 \if c#1\relax \cals@vfillAdd \leftskip \cals@vfillAdd \rightskip \fi
9949 \if l#1\relax \cals@vfillDrop\leftskip \cals@vfillDrop\rightskip \fi
9950 \if r#1\relax \cals@vfillAdd \leftskip \cals@vfillDrop\rightskip \fi
9951 }

```



```

9952 \renewcommand\cals@table@alignment{\if@RTLtab r\else l\fi}
9953 \renewenvironment{calstable}[1][\cals@table@alignment]{%
9954 \if@RTLtab\cals@activate@rtl\fi
9955 \let\cals@thead@tokens=\relax
9956 \let\cals@tfoot@tokens=\relax
9957 \let\cals@tbody@tokens=\relax
9958 \cals@tfoot@height=0pt \relax
9959 \let\cals@last@context=n%
9960 \let\cals@current@context=b%
9961 \parindent=0pt \relax%
9962 \cals@setup@alignment{#1}%
9963 \cals@setpadding{Ag}\cals@setcellprevdepth{Al}\cals@set@tohsize%
9964 %% Alignment inside is independent on center/flushright outside
9965 \parfillskip=0pt plus1fil\relax
9966 \let\cals@borderL=\relax
9967 \let\cals@borderR=\relax
9968 \let\cals@borderT=\relax
9969 \let\cals@borderB=\relax
9970 \setbox\cals@backup@row=\box\voidb@x\relax
9971 \cals@AtBeginTable
9972 }{% End of the table
9973 \cals@tfoot@tokens\lastrule\cals@AtEndTable}
9974 \renewcommand\alignL{%
9975 \if@RTLtab
9976 \cals@vfillAdd\cals@paddingL
9977 \else
9978 \cals@vfillDrop\cals@paddingL
9979 \fi
9980 \cals@vfillDrop\cals@paddingR}
9981 \renewcommand\alignR{%
9982 \if@RTLtab
9983 \cals@vfillDrop\cals@paddingL
9984 \else
9985 \cals@vfillAdd\cals@paddingL
9986 \fi
9987 \cals@vfillDrop\cals@paddingR}

```

68 File caption-xetex-bidi.def

```

9988 \ProvidesFile{caption-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for caption package f
9989 \let\@makecaption\caption@makecaption

```

69 File caption3-xetex-bidi.def

```

9990 \ProvidesFile{caption3-xetex-bidi.def}[2013/04/01 v0.1 bidi adaptations for caption3 package
9991 \renewcommand*\caption@par{%
9992 \parindent\caption@parindent\hangindent\if@RTL-\fi\caption@hangindent}%

```

70 File colortbl-xetex-bidi.def

```

9993 \ProvidesFile{colortbl-xetex-bidi.def}[2012/06/10 v0.2 bidi adaptations for colortbl package
9994 \def\CT@setup{%
9995 \@tempdimb\col@sep
9996 \@tempdimc\col@sep

```



```

9997 \def\CT@color{%
9998   \global\let\CT@do@color\CT@@do@color
9999   \bidicolor}}
10000 \def\@classz{\@classx
10001   \@tempcnta \count@
10002   \prepnext@tok
10003 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
10004   \@addtopreamble{\if@RTLtab\beginL\fi%
10005     \setbox\z@\hbox\bgroup\bgroup\if@RTLtab\beginR\fi
10006     \ifcase \@chnum
10007       \hskip\stretch{.5}\kern\z@
10008       \d@llarbegin
10009       \insert@column
10010       \d@llarend\hskip\stretch{.5}\or
10011       \d@llarbegin \insert@column \d@llarend \hfill \or
10012       \hfill\kern\z@ \d@llarbegin \insert@column \d@llarend \or
10013     $\vcenter
10014     \@startpbox{\@nextchar}\insert@column \@endpbox $\or
10015     \vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
10016     \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
10017   \fi
10018 \if@RTLtab\endR\fi\egroup\egroup
10019 \begingroup
10020   \CT@setup
10021   \CT@column@color
10022   \CT@row@color
10023   \CT@cell@color
10024   \CT@do@color
10025 \endgroup
10026   \@tempdima\ht\z@
10027   \advance\@tempdima\minrowclearance
10028   \vrule\@height\@tempdima\@width\z@
10029   \unhbox\z@\if@RTLtab\endL\fi}%
10030 \prepnext@tok}

```

71 File color-xetex-bidi.def

```

10031 \ProvidesFile{color-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for color package for Xe
10032 \long\def\color@b@x#1#2#3{%
10033   \leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
10034   \setbox\z@\hbox{\kern\fbboxsep\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
10035   \dimen@ \ht\z@ \advance\dimen@ \fbboxsep \ht\z@ \dimen@
10036   \dimen@ \dp\z@ \advance\dimen@ \fbboxsep \dp\z@ \dimen@
10037   {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}%
10038     \box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
10039 \def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi}
10040 \DeclareRobustCommand\color{%
10041   \ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor]
10042 \def\@declaredcolor#1{%
10043   \@ifundefined{\string\color @#1}%
10044     {\c@lor@error{`#1'}}%
10045     {\expandafter\let\expandafter\current@color
10046       \csname\string\color @#1\endcsname
10047       \set@color}%

```



```

10048 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
10049 \def\@undeclaredcolor[#1]#2{%
10050 \@ifundefined{color@#1}%
10051 {\c@lor@error{model `#1'}}%
10052 {\csname color@#1\endcsname\current@color{#2}%
10053 \set@color}%
10054 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
10055 \DeclareRobustCommand\bidicolor{%
10056 \@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
10057 \def\@bidiundeclaredcolor[#1]#2{%
10058 \@ifundefined{color@#1}%
10059 {\c@lor@error{model `#1'}}%
10060 {\csname color@#1\endcsname\current@color{#2}%
10061 \set@color}%
10062 \ignorespaces}
10063 \def\@bidideclaredcolor#1{%
10064 \@ifundefined{\string\color @#1}%
10065 {\c@lor@error{`#1'}}%
10066 {\expandafter\let\expandafter\current@color
10067 \csname\string\color @#1\endcsname
10068 \set@color}%
10069 \ignorespaces}
10070 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
10071 \def\color@fbox#1#2#3{%
10072 \color@b@x{\fboxsep\z@\bidicolor#1{#2}\fbox}{\bidicolor#1{#3}}}
10073 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmod

```

72 File combine-xetex-bidi.def

```

10074 \ProvidesFile{combine-xetex-bidi.def}[2011/09/23 v0.1 bidi adaptations for combine class for
10075 \renewcommand{\c@ll@chapsecii}[2]{%
10076 \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
10077 \if@RTL\hskip -\rightskip\else\hskip -\leftskip\fi
10078 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
10079 }
10080 \renewcommand{\c@ll@chapseci}{%
10081 \setlength\@tempdima{0em}%
10082 \begingroup
10083 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
10084 \parfillskip -\@pnumwidth
10085 \leavevmode
10086 }
10087 \renewenvironment{tocindent}[1]{%
10088 \hangindent \if@RTL-\fi#1 \hangafter -100\relax}{%

```

73 File crop-xetex-bidi.def

```

10089 \ProvidesFile{crop-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for crop package for XeT
10090 \IfClassLoadedT{memoir}{\endinput}
10091 \RequirePackage{graphicx}
10092 \renewcommand*\CROP@ulc{%
10093 \if@RTLmain%
10094 \begin{picture}(0,0)
10095 \unitlength\p@thinlines

```



```

10096      \put(-40,0){\circle{10}}
10097      \put(-30,-5){\line(0,1){10}}
10098      \put(-35,0){\line(1,0){30}}
10099      \put(-10,30){\circle{10}}
10100      \put(-5,30){\line(1,0){10}}
10101      \put(0,35){\line(0,-1){30}}
10102      \end{picture}%
10103      \else%
10104      \begin{picture}(0,0)
10105      \unitlength\p@\thinline
10106      \put(-30,0){\circle{10}}
10107      \put(-30,-5){\line(0,1){10}}
10108      \put(-35,0){\line(1,0){30}}
10109      \put(0,30){\circle{10}}
10110      \put(-5,30){\line(1,0){10}}
10111      \put(0,35){\line(0,-1){30}}
10112      \end{picture}%
10113      \fi%
10114  }
10115  \renewcommand*\CROP@urc{%
10116    \if@RTLmain%
10117      \begin{picture}(0,0)
10118      \unitlength\p@\thinline
10119      \put(20,0){\circle{10}}
10120      \put(30,-5){\line(0,1){10}}
10121      \put(35,0){\line(-1,0){30}}
10122      \put(-10,30){\circle{10}}
10123      \put(-5,30){\line(1,0){10}}
10124      \put(0,35){\line(0,-1){30}}
10125      \end{picture}%
10126      \else%
10127      \begin{picture}(0,0)
10128      \unitlength\p@\thinline
10129      \put(30,0){\circle{10}}
10130      \put(30,-5){\line(0,1){10}}
10131      \put(35,0){\line(-1,0){30}}
10132      \put(0,30){\circle{10}}
10133      \put(-5,30){\line(1,0){10}}
10134      \put(0,35){\line(0,-1){30}}
10135      \end{picture}%
10136      \fi%
10137  }
10138  \renewcommand*\CROP@llc{%
10139    \if@RTLmain%
10140      \begin{picture}(0,0)
10141      \unitlength\p@\thinline
10142      \put(-40,0){\circle{10}}
10143      \put(-30,-5){\line(0,1){10}}
10144      \put(-35,0){\line(1,0){30}}
10145      \put(-10,-30){\circle{10}}
10146      \put(-5,-30){\line(1,0){10}}
10147      \put(0,-35){\line(0,1){30}}
10148      \end{picture}%
10149      \else%

```



```

10150 \begin{picture}(0,0)
10151 \unitlength\p@\thinlines
10152 \put(-30,0){\circle{10}}
10153 \put(-30,-5){\line(0,1){10}}
10154 \put(-35,0){\line(1,0){30}}
10155 \put(0,-30){\circle{10}}
10156 \put(-5,-30){\line(1,0){10}}
10157 \put(0,-35){\line(0,1){30}}
10158 \end{picture}%
10159 \fi%
10160 }
10161 \renewcommand*\CROP@lrc{%
10162 \if@RTLmain%
10163 \begin{picture}(0,0)
10164 \unitlength\p@\thinlines
10165 \put(20,0){\circle{10}}
10166 \put(30,-5){\line(0,1){10}}
10167 \put(35,0){\line(-1,0){30}}
10168 \put(-10,-30){\circle{10}}
10169 \put(-5,-30){\line(1,0){10}}
10170 \put(0,-35){\line(0,1){30}}
10171 \end{picture}%
10172 \else%
10173 \begin{picture}(0,0)
10174 \unitlength\p@\thinlines
10175 \put(30,0){\circle{10}}
10176 \put(30,-5){\line(0,1){10}}
10177 \put(35,0){\line(-1,0){30}}
10178 \put(0,-30){\circle{10}}
10179 \put(-5,-30){\line(1,0){10}}
10180 \put(0,-35){\line(0,1){30}}
10181 \end{picture}%
10182 \fi%
10183 }
10184 \ifpackagewith{crop}{cam}{%
10185 \CROP@execopt{cam}%
10186 }{}

```

74 File cutwin-xetex-bidi.def

```

10187 \ProvidesFile{cutwin-xetex-bidi.def}[2011/11/12 v0.1 bidi adaptations for cutwin package for
10188 \renewcommand*{\c@twcompctr}[2]{%
10189 \def\c@twfirst{1}
10190 \loop\advance\c@twwinlines\m@ne
10191 \setbox\c@twslicea=\vsplit#1 to\baselineskip
10192 \setbox\c@twliceb=\vsplit#1 to\baselineskip
10193 \c@twprune{\c@twslicea}{\c@twlftside}%
10194 \c@twprune{\c@twliceb}{\c@twrtside}%
10195 \ifnum\c@twfirst=\@ne
10196 \setbox#2=\vbox{\unvbox#2\hbox
10197 to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\pageinwindow\hfil\if@RTL\box\c@tw
10198 \else
10199 \setbox#2=\vbox{\unvbox#2\hbox
10200 to\hsize{\if@RTL\box\c@twliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\box

```



```

10201 \fi
10202 \def\c@twfirst{2}
10203 \ifnum\c@twinlines>\z@\repeat}
10204 \renewcommand*{\c@twcompoddctr}[2]{%
10205 \def\c@twrounds{1}
10206 \def\c@twfirst{1}
10207 \@for\c@twlspec:=\c@twb\do{%
10208 \ifnum\c@twrounds=1
10209 \setbox\c@twslicea=\vsplit#1 to\baselineskip % first of pair
10210 \c@twprune{\c@twslicea}{\c@twlspec}%
10211 \def\c@twrounds{2}
10212 \else
10213 \setbox\c@twsliceb=\vsplit#1 to\baselineskip % second of pair
10214 \c@twprune{\c@twsliceb}{\c@twlspec}%
10215 \ifnum\c@twfirst=1
10216 \setbox#2=\vbox{\unvbox#2\hbox
10217 to\hsize{\ifRTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\picinwindow\hfil\ifRTL\
10218 \def\c@twfirst{2}
10219 \else
10220 \setbox#2=\vbox{\unvbox#2\hbox
10221 to\hsize{\ifRTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\ifRTL\box\c@twslicea\el
10222 \fi
10223 \def\c@twrounds{1}
10224 \fi}}

```

75 File cuted-xetex-bidi.def

```

10225 \ProvidesFile{cuted-xetex-bidi.def}[2022/02/18 v0.7 bidi adaptations for cuted package for X
10226
10227 \def\RTL@outputdblcol{%
10228 \if@firstcolumn
10229 \global\@firstcolumnfalse
10230 \global\setbox\@leftcolumn\copy\@outputbox
10231 \splitmaxdepth\maxdimen
10232 \vbadness\maxdimen
10233 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10234 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10235 \toks@\expandafter{\topmark}%
10236 \xdef\@firstcoltopmark{\the\toks@}%
10237 \toks@\expandafter{\splitfirstmark}%
10238 \xdef\@firstcolfirstmark{\the\toks@}%
10239 \ifx\@firstcolfirstmark\@empty
10240 \global\let\@setmarks\relax
10241 \else
10242 \gdef\@setmarks{%
10243 \let\firstmark\@firstcolfirstmark
10244 \let\topmark\@firstcoltopmark}%
10245 \fi
10246 \else
10247 \global\@firstcolumntrue
10248 \setbox\@outputbox\vbox{%
10249 \hb@xt@\textwidth{%
10250 \hskip \columnwidth
10251 \hfil

```



```

10252     {\normalcolor\vrule \@width\columnseprule}%
10253     \hfil
10254     \hb@xt@\columnwidth{%
10255       \bidi@firstcolumn@status@write%
10256       \box\@leftcolumn \hss}%
10257     \hskip -\textwidth
10258     \hb@xt@\columnwidth{%
10259       \bidi@lastcolumn@status@write%
10260       \box\@outputbox \hss}%
10261     \hskip \columnsep
10262     \hskip \columnwidth }}%
10263   \ifvoid\hold@viper
10264   \else
10265     \setbox\@outputbox \vbox to\textheight{%
10266       \box\hold@viper
10267       \box\@outputbox
10268       \vss
10269     }%
10270   \fi
10271   \@combinedblfloats
10272   \@setmarks
10273   \@outputpage
10274   \begingroup
10275     \@dblfloatplacement
10276     \@startdblcolumn
10277     \@whiles\if@fcolmade \fi{\@outputpage
10278     \@startdblcolumn}%
10279     \ifvoid\@viper
10280     \else
10281       \global\setbox\@viper\vbox{%
10282         \vskip-\stripsep
10283         \unvbox\@viper
10284       }%
10285     \@viperoutput
10286     \fi
10287   \endgroup
10288   \fi}%
10289
10290 \def\LTR@outputdblcol{%
10291   \if@firstcolumn
10292     \global\@firstcolumnfalse
10293     \global\setbox\@leftcolumn\copy\@outputbox
10294     \splitmaxdepth\maxdimen
10295     \vbadness\maxdimen
10296     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10297     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10298     \toks@\expandafter{\topmark}%
10299     \xdef\@firstcoltopmark{\the\toks@}%
10300     \toks@\expandafter{\splitfirstmark}%
10301     \xdef\@firstcolfirstmark{\the\toks@}%
10302     \ifx\@firstcolfirstmark\@empty
10303       \global\let\@setmarks\relax
10304     \else
10305       \gdef\@setmarks{%

```




```

10306      \let\firstmark\@firstcolfirstmark
10307      \let\topmark\@firstcoltopmark}%
10308  \fi
10309  \else
10310    \global\@firstcolumntrue
10311    \setbox\@outputbox\vbox{%
10312      \hb@xt@\textwidth{%
10313        \hb@xt@\columnwidth{%
10314          \bidi@firstcolumn@status@write%
10315          \box\@leftcolumn \hss}%
10316        \hfil
10317        {\normalcolor\vrule \@width\columnseprule}%
10318        \hfil
10319        \hb@xt@\columnwidth{%
10320          \bidi@lastcolumn@status@write%
10321          \box\@outputbox \hss}}}%
10322    \ifvoid\hold@viper
10323    \else
10324      \setbox\@outputbox \vbox to\textheight{%
10325        \box\hold@viper
10326        \box\@outputbox
10327        \vss
10328      }%
10329    \fi
10330  \@combinedblfloats
10331  \@setmarks
10332  \@outputpage
10333  \begingroup
10334    \@dblfloatplacement
10335    \@startdblcolumn
10336    \@whiles\if@fcolmade \fi{\@outputpage
10337    \@startdblcolumn}%
10338    \ifvoid\@viper
10339    \else
10340      \global\setbox\@viper\vbox{%
10341        \vskip-\stripsep
10342        \unvbox\@viper
10343      }%
10344      \@viperoutput
10345    \fi
10346  \endgroup
10347  \fi}%
10348
10349  \def\@addviper{%
10350    \insertfalse
10351    \def\var@thecol@num{2}%
10352    \if@firstcolumn
10353      \def\var@thecol@num{1}%
10354      \@reqcolroom=.5\@pageht
10355      \ht@viper=\@reqcolroom
10356      \advance\@reqcolroom by\ht\@viper
10357      \advance\@reqcolroom by\stripsep
10358    \else
10359      \@reqcolroom=\@colht

```



```

10360 \advance\@reqcolroom by\@pageht
10361 \ht@viper=.5\@reqcolroom
10362 \@reqcolroom=\ht@viper
10363 \advance\@reqcolroom by\ht\@viper
10364 \advance\@reqcolroom by\stripsep
10365 \global\setbox\@holdpg\vbox{%
10366     \setbox\cuted@@tempbox@a\vbox{%
10367         \aftergroup\unvbox
10368         \unvcopy\@leftcolumn
10369         \unskip\unkern\unpenalty
10370         \setbox\@tempboxa\lastbox
10371         \ifdim\dimexpr\ht\@tempboxa+\wd\@tempboxa+\dp\@tempboxa>\z@
10372             %% keeps lastbox
10373             \aftergroup\@leftcolumn
10374         \else
10375             %% removes lastbox
10376             \aftergroup\cuted@@tempbox@a
10377         \fi
10378     }%
10379     \unskip\unkern\unpenalty
10380     \on@stripcols@break
10381     \the\At@ViperColsBreak
10382     \unvbox\@holdpg
10383 }%
10384 \global\At@ViperColsBreak{}%
10385 \ht@viper=.5\ht\@holdpg
10386 \ifdim\ht@viper>\@colht
10387     \ht@viper=\@colht
10388 \fi
10389 \fi
10390 %%
10391 %% calculations for breaking
10392 %%
10393 \ifvoid\hold@viper
10394     \ht@hold@viper=\z@
10395 \else
10396     \ht@hold@viper=\ht\hold@viper
10397 \fi
10398 \cuted@@tempdim@b\ht@viper
10399 \set@split@topskip@to\topskip
10400 \loop
10401     \xdef\saved@tempdimb{\the\cuted@@tempdim@b}%
10402     \setbox\cuted@@varbox@a\copy\@holdpg
10403     \setbox\cuted@@tempbox@a\vsplit\cuted@@varbox@a to\cuted@@tempdim@b
10404     %% set leftcolumn boxes
10405     \setbox\cuted@@tempbox@c\vbox{\unvbox\cuted@@tempbox@a}%
10406     \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@tempbox@c}%
10407     \xdef\var@@leftcolumn@badness{\the\badness}%
10408     %% set rightcolumn boxes
10409     \setbox\cuted@@varbox@c\vbox{\unvbox\cuted@@varbox@a}%
10410     \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@varbox@c}%
10411     \xdef\var@@rightcolumn@badness{\the\badness}%
10412     %% analyzing split goodness
10413     \cuted@@tempdim@spread=\ht\cuted@@tempbox@c

```



```

10414 \advance\cuted@@tempdim@spread by\dp\cuted@@tempbox@c
10415 \advance\cuted@@tempdim@spread by-\ht\cuted@@varbox@c
10416 \advance\cuted@@tempdim@spread by-\dp\cuted@@varbox@c
10417 \cuted@@wlog@debug{CUTED [-----]%
10418   ^^JLeft: \the\ht\cuted@@tempbox@c
10419   +\the\dp\cuted@@tempbox@c\space/\var@@leftcolumn@badness
10420   ^^JRight: \the\ht\cuted@@varbox@c
10421   +\the\dp\cuted@@varbox@c\space/\var@@rightcolumn@badness
10422   ^^JSplit: \the\cuted@@tempdim@b
10423   ^^JExtra height: \the\cuted@@tempdim@spread
10424 }%
10425 \ifnum\var@@leftcolumn@badness<\cuted@@column@badness
10426   \ifnum\var@@rightcolumn@badness<\cuted@@column@badness
10427     \cuted@@tempdim@spread=\z@
10428   \fi
10429 \fi
10430 \ifdim\cuted@@tempdim@spread<\z@
10431   \if@left@column@spread
10432     \if@right@column@shrink
10433       \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink>\z@
10434         \cuted@@tempdim@a=\dimexpr\ht\cuted@@tempbox@c-0.5\cuted@@tempdim@spread
10435       \else
10436         \cuted@@tempdim@a=-\dimexpr\cuted@@tempdim@spread+.5\pageshrink\relax
10437       \fi
10438       \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@tempbox@c}
10439       \ifnum\badness<\cuted@@column@badness
10440         \cuted@@tempdim@b=\cuted@@tempdim@a
10441         \cuted@@tempdim@spread=\z@
10442       \fi
10443       \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness\space on \the\ht}
10444       \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@varbox@c}
10445       \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness\space on \the\ht}
10446     \else
10447       \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{\unvcopy\cuted@@tempbox@c}
10448       \unvcopy\cuted@@tempbox@c
10449     }%
10450     \ifnum\badness<\cuted@@column@badness
10451       \@tempdimb=\ht\cuted@@varbox@c
10452       \cuted@@tempdim@spread=\z@
10453     \fi
10454     \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness on \the\ht}
10455     \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{\unvcopy\cuted@@varbox@c}
10456     \unvcopy\cuted@@varbox@c
10457   }%
10458   \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness on \the\ht}
10459 \fi
10460 \else
10461   \if@right@column@shrink
10462     \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink<\z@
10463     \else
10464       \cuted@@tempdim@b=\ht\cuted@@tempbox@c
10465       \cuted@@tempdim@spread=\z@
10466     \fi
10467 \fi

```



```

10468         \fi
10469     \else
10470         \ifdim\cuted@@tempdim@spread>\z@
10471             \ifdim\dimexpr\@tempdimb+\p@>\relax>\@colht
10472                 \cuted@@tempdim@b=\@colht
10473                 \cuted@@tempdim@spread=\z@
10474             \fi
10475         \fi
10476     \fi
10477 \ifdim\cuted@@tempdim@spread<\z@
10478     \advance\cuted@@tempdim@b 1\p@
10479 \repeat
10480 \wlog{CUTED [- LAST -]}%
10481     ^^JExtra skip:\the\cuted@@tempdim@spread
10482     ^^JLeft:\the\ht\cuted@@tempbox@c/\the\dp\cuted@@tempbox@c
10483     ^^JRight:\the\ht\cuted@@varbox@c/\the\dp\cuted@@varbox@c
10484     ^^JSplit: \saved@tempdimb
10485     ^^JOutput:\the\cuted@@tempdim@b
10486     ^^JPageshrink: \the\pageshrink
10487     ^^JPagestretch: \the\pagestretch
10488     ^^J@colht:\the\@colht
10489 }%
10490 %%
10491 %% final construction of the cuted page above strip
10492 %%
10493 \setbox\cuted@@tempbox@c\vsplit\@holdpg to\saved@tempdimb
10494 \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{%
10495     \cuted@@tempdim@a=\dimexpr
10496         \cuted@@tempdim@b-\ht\cuted@@tempbox@c
10497         \relax
10498     \cuted@@tempdim@spread=\dp\cuted@@tempbox@c
10499     \unvbox\cuted@@tempbox@c
10500     \ifdim\cuted@@tempdim@spread>\dp\strutbox
10501     \else
10502         \vskip-\cuted@@tempdim@spread
10503     \fi
10504     \prevdepth\z@
10505     \hrule\@height\cuted@@page@rule width\textwidth
10506     \vskip-\cuted@@page@rule
10507     \ifdim\cuted@@tempdim@a>\z@
10508         \if@left@column@spread
10509         \else
10510             \vss
10511         \fi
10512     \else
10513         \ifdim\cuted@@tempdim@a<\z@
10514             \if@left@column@shrink
10515             \else
10516                 \vss
10517             \fi
10518         \fi
10519     \fi
10520 }%
10521 \wlog{CUTED [output]: \the\cuted@@tempdim@b

```



```

10522      ^^JCUTED [leftcolumn badness]: \number\badness
10523    }%
10524    \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{%
10525      \cuted@@tempdim@a=\dimexpr
10526        \cuted@@tempdim@b-\ht\@holdpg
10527      \relax
10528    \unvbox\@holdpg
10529    \ifdim\cuted@@tempdim@a>\z@
10530      \if@right@column@spread
10531      \else
10532        \vss
10533      \fi
10534    \else
10535      \ifdim\cuted@@tempdim@a<\z@
10536        \if@right@column@shrink
10537        \else
10538          \vss
10539        \fi
10540      \fi
10541    \fi
10542  }%
10543  \wlog{CUTED [rightcolumn badness]: \number\badness}%
10544  \setbox\cuted@@tempbox@var\vbox{%
10545    \hb@xt@\textwidth{%
10546      \if@RTLmain
10547        \hskip \columnwidth
10548        \hfil
10549        {\normalcolor\vrule \@width\columnseprule}%
10550        \hfil
10551        \hb@xt@\columnwidth{%
10552          \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10553          \hss
10554        }%
10555        \hskip -\textwidth
10556        \hb@xt@\columnwidth{%
10557          \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10558          \hss
10559        }%
10560        \hskip \columnsep
10561        \hskip \columnwidth
10562      \else
10563        \hb@xt@\columnwidth{%
10564          \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10565          \hss
10566        }%
10567        \hfil
10568        {\normalcolor\vrule \@width\columnseprule}%
10569        \hfil
10570        \hb@xt@\columnwidth{%
10571          \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10572          \hss
10573        }%
10574      \fi
10575    }%

```



```

10576     }%
10577     %%
10578     %% finalize cuted page
10579     %%
10580     \ifvoid\hold@viper
10581         \global\setbox\hold@viper\vbox{%
10582             \unvbox\cuted@@tempbox@var
10583             \penalty\interlinepenalty
10584             \vskip\stripsep
10585             \the\preCutedStrip
10586             \ifnum\outputpenalty<-\@Mii
10587                 \vskip -\parskip
10588             \fi
10589             \outputpenalty\z@
10590         }%
10591     \else
10592         \global\setbox\hold@viper\vbox{%
10593             \unvbox\hold@viper
10594             \cuted@@tempbox@var
10595             \penalty\interlinepenalty
10596             \vskip\stripsep
10597             \the\preCutedStrip
10598             \ifnum\outputpenalty<-\@Mii
10599                 \vskip -\parskip
10600             \fi
10601             \outputpenalty\z@
10602         }%
10603     \fi
10604     \ifdim\@colht>\@reqcolroom
10605         \global\setbox\hold@viper\vbox{%
10606             \unvbox\hold@viper
10607             \box\@viper
10608             \penalty\interlinepenalty
10609             \the\postCutedStrip
10610             \vskip\stripsep
10611             \ifnum\outputpenalty<-\@Mii
10612                 \vskip -\parskip
10613             \fi
10614             \outputpenalty\z@
10615         }%
10616     \@inserttrue
10617     \global\@firstcolumntrue
10618     \advance\ht@hold@viper by-\ht\hold@viper
10619     \global\advance\@colht by\ht@hold@viper
10620     \ifdim\@colht<2.5\baselineskip
10621         \@latex@warning@no@line {Optional argument of \noexpand\twocolumn
10622             too tall on page \thepage (\var@thecol@num column)}}%
10623         \@emptycol
10624         \if@firstcolumn
10625         \else
10626             \@emptycol
10627         \fi
10628         \global\@lastvipertrue
10629     \else

```



```

10630         \global\vsizel\colht
10631         \global\@colroom\colht
10632         \checkfloats\cuted@tempdim@a
10633         \ifdim\cuted@tempdim@a>\z@
10634             \global\advance\@colroom by-\cuted@tempdim@a
10635         \fi
10636         \ifdim\@colroom<\z@
10637             \global\@colroom1\p@
10638             \ifdim\cuted@tempdim@a>\colht
10639                 \@latexwarning{no@line{TOP and/or BOT FLOAT's
10640                     to large on \thepage (\var@thecol@num column)}}%
10641             \fi
10642             \@emptycol
10643             \iffirstcolumn
10644             \else
10645                 \@emptycol
10646             \fi
10647             \global\@lastvipertrue
10648         \fi
10649     \fi
10650 \fi
10651 \if@insert
10652 \else
10653     \advance\ht@hold@viper by-\ht\hold@viper
10654     \global\advance\colht by\ht@hold@viper
10655     \global\setbox\hold@viper\ vbox{%
10656         \unvbox\hold@viper
10657         \set@split@topskip@to{\z@ plus2\p@}%
10658         \vsplit\@viper to\colht
10659         \vss
10660     }%
10661     \vbox{%
10662         \global\@firstcolumnfalse
10663         \newpage
10664     \fi
10665 }

```

76 File cvthemebidicasual.sty

```

10666 \NeedsTeXFormat{LaTeX2e}
10667 \ProvidesPackage{cvthemebidicasual}
10668 \DeclareOption{blue}{}
10669 \newif\if@colourorange\@colourorangefalse
10670 \DeclareOption{orange}{\@colourorangetrue}
10671 \newif\if@colourgreen\@colourgreenfalse
10672 \DeclareOption{green}{\@colourgreentrue}
10673 \newif\if@colourred\@colourredfalse
10674 \DeclareOption{red}{\@colourredtrue}
10675 \newif\if@colourgrey\@colourgreyfalse
10676 \DeclareOption{grey}{\@colourgreytrue}
10677 \DeclareOption*{
10678     \PackageWarning{cvthemebidicasual}{Unknown option ‘\CurrentOption’}}
10679 \ExecuteOptions{colour}
10680 \ProcessOptions\relax

```



```

10681 \renewcommand*{\listitemsymbol}{\textbullet}
10682 \definecolor{firstnamecolor}{rgb}{0.65,0.65,0.65}
10683 \familynamecolour{808080}
10684 \firstnamecolour{A9A9A9}
10685 \quotecolour{696969}
10686 \addresscolour{696969}
10687 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.50,0.75}
10688 \sectiontitlecolour{1E90FF}
10689 \subsectioncolour{4682B4}
10690 \definecolor{rulecolour}{gray}{0.6}
10691 \definecolor{footersymbolcolour}{rgb}{0.25,0.50,0.75}
10692 \definecolor{footersymbolcolor}{rgb}{0.25,0.50,0.75}
10693 \if@colourorange
10694 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10695 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10696 \sectiontitlecolour{FF8C00}
10697 \subsectioncolour{FF8C00}
10698 \definecolor{footersymbolcolour}{rgb}{0.95,0.55,0.15}
10699 \definecolor{footersymbolcolor}{rgb}{0.95,0.55,0.15}\fi
10700 \if@colourgreen
10701 \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10702 \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10703 \sectiontitlecolour{008000}
10704 \subsectioncolour{008000}
10705 \definecolor{footersymbolcolour}{rgb}{0.30,0.65,0.15}
10706 \definecolor{footersymbolcolor}{rgb}{0.30,0.65,0.15}\fi
10707 \if@colourred
10708 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10709 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10710 \sectiontitlecolour{FF0000}
10711 \subsectioncolour{FF0000}
10712 \definecolor{footersymbolcolour}{rgb}{0.95,0.20,0.20}
10713 \definecolor{footersymbolcolor}{rgb}{0.95,0.20,0.20}\fi
10714 \if@colourgrey
10715 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10716 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10717 \sectiontitlecolour{808080}
10718 \subsectioncolour{808080}
10719 \definecolor{footersymbolcolour}{rgb}{0.35,0.35,0.35}
10720 \definecolor{footersymbolcolor}{rgb}{0.35,0.35,0.35}\fi
10721 \renewcommand*{\ttdefault}{pcr}
10722 \renewcommand*{\firstnamefont}{\fontsize{38}{40}\mdseries\upshape}
10723 \renewcommand*{\familynamefont}{\firstnamefont}
10724 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10725 \renewcommand*{\quotefont}{\large\slshape}
10726 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10727 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10728 \renewcommand*{\maketitle}{%
10729   {%
10730     \ifthenelse{\isundefined{\@photo}}{%
10731       {%
10732         {\color{firstnamecolor}\framebox{\includegraphics[width=\@photowidth]{\@photo}}}%
10733         \hfill%
10734         \bidi@raggedleft{\firstnamestyle{\@firstname}~\familynamestyle{\@familyname}}\[-.35em]}%

```




```

10735   {\color{firstnamecolor}\rule{\textwidth}{.25ex}\[2.5em]}%
10736   \ifthenelse{\isundefined{\@quote}}{%
10737     {}%
10738     {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\%
10739   }%
10740   \newif\if@firstfooterelement\@firstfooterelementtrue
10741   \providecommand*{\footersymbol}{}
10742   \renewcommand*{\footersymbol}{}%
10743   \if@firstfooterelement%
10744   \else%
10745     {~~\color{footersymbolcolor}\textbullet~~}\fi}
10746   \providecommand*{\makefooter}{}
10747   \renewcommand*{\makefooter}{}%
10748   \fancypagestyle{plain}{%
10749     \fancyfoot[c]{%
10750       \parbox{0.8\textwidth}{%
10751         \centering%
10752         \addressfont\@addresscolour%
10753         \ifthenelse{\isundefined{\@address}}{}{}%
10754         \addresssymbol~\@address\%
10755         \@firstfooterelementfalse}%
10756         \ifthenelse{\isundefined{\@mobile}}{}{\mobilesymbol~\@mobile\@firstfooterelementfalse}%
10757         \ifthenelse{\isundefined{\@phone}}{}{\footersymbol\phonesymbol~\@phone\@firstfooterelementfalse}%
10758         \ifthenelse{\isundefined{\@fax}}{}{\footersymbol\faxsymbol~\@fax\@firstfooterelementfalse}%
10759         \ifthenelse{\isundefined{\@email}}{}{\footersymbol\emailsymbol~\emaillink{\@email}\@firstfooterelementfalse}%
10760         \ifthenelse{\isundefined{\@extrainfo}}{}{\footersymbol\@extrainfo\@firstfooterelementfalse}%
10761       }%
10762     \pagestyle{plain}}
10763   \AtBeginDocument{\makefooter}

```

77 File cvthemebidiclassic.sty

```

10764 \NeedsTeXFormat{LaTeX2e}
10765 \ProvidesPackage{cvthemebidiclassic}
10766 \DeclareOption{blue}{}
10767 \newif\if@colourorange\@colourorangefalse
10768 \DeclareOption{orange}{\@colourorangertrue}
10769 \newif\if@colourgreen\@colourgreenfalse
10770 \DeclareOption{green}{\@colourgreentrue}
10771 \newif\if@colourred\@colourredfalse
10772 \DeclareOption{red}{\@colourredtrue}
10773 \newif\if@colourgrey\@colourgreyfalse
10774 \DeclareOption{grey}{\@colourgreytrue}
10775 \DeclareOption*{
10776   \PackageWarning{cvthemebidiclassic}{Unknown option '\CurrentOption'}}
10777 \ExecuteOptions{colour}
10778 \ProcessOptions\relax
10779 \renewcommand*{\listitemsymbol}{\textbullet}
10780 \firstnamecolour{}
10781 \familynamecolour{}
10782 \titlecolour{808080}
10783 \quotecolour{696969}
10784 \addresscolour{696969}
10785 \definecolor{sectionrectanglecolour}{rgb}{0.25,0.50,0.75}

```



```

10786 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.5,0.75}
10787 \sectiontitlecolour{1E90FF}
10788 \subsectioncolour{4682B4}
10789 \if@colourorange
10790   \addresscolour{FF8C00}
10791   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10792   \definecolor{sectionrectanglecolor}{rgb}{1,0.65,0.20}
10793   \sectiontitlecolour{FF8C00}
10794   \subsectioncolour{FF8C00}\fi
10795 \if@colourgreen
10796   \addresscolour{008000}
10797   \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10798   \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10799   \sectiontitlecolour{008000}
10800   \subsectioncolour{008000}\fi
10801 \if@colourred
10802   \addresscolour{FF0000}
10803   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10804   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10805   \sectiontitlecolour{FF0000}
10806   \subsectioncolour{FF0000}\fi
10807 \if@colourgrey
10808   \addresscolour{808080}
10809   \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10810   \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10811   \sectiontitlecolour{808080}
10812   \subsectioncolour{808080}\fi
10813 \renewcommand*{\ttdefault}{pcr}
10814 \renewcommand*{\firstnamefont}{\fontsize{34}{36}\mdseries\upshape}
10815 \renewcommand*{\titlefont}{\LARGE\mdseries\slshape}
10816 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10817 \renewcommand*{\familynamefont}{\firstnamefont}
10818 \renewcommand*{\quoteftfont}{\large\slshape}
10819 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10820 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10821 \newlength{\maketitlenamemaxwidth}
10822 \setlength{\maketitlenamemaxwidth}{.525\textwidth}
10823 \newlength{\maketitlenamefullwidth}
10824 \settowidth{\maketitlenamefullwidth}{\firstnamestyle{\@firstname~}\familynamestyle{\@familyname}}
10825 \newlength{\maketitlenamewidth}
10826 \ifnum\maketitlenamemaxwidth<\maketitlenamefullwidth\setlength{\maketitlenamewidth}{\maketitlenamemaxwidth}
10827 \newlength{\maketitlepicturewidth}
10828 \setlength{\maketitlepicturewidth}{\@photowidth}
10829 \newlength{\maketitledetailwidth}
10830 \renewcommand*{\recomputethemelengths}{%
10831   \setlength{\maketitledetailwidth}{\textwidth}%
10832   \addtolength{\maketitledetailwidth}{-\maketitlenamewidth}%
10833   \addtolength{\maketitledetailwidth}{-\separatorcolumnwidth}%
10834   \addtolength{\maketitledetailwidth}{-\maketitlepicturewidth}}
10835 \recomputethemelengths
10836 \newif\if@firstdetailselement\@firstdetailselementtrue
10837 \newcommand*{\maketitledetailnewline}{%
10838   \if@firstdetailselement%
10839     \@firstdetailselementfalse%

```



```

10840 \else%
10841 \[\.2em]\fi}
10842 \renewcommand*{\maketitle}{%
10843 % name and title
10844 \begin{minipage}[b]{\maketitlewidth}%
10845 \firstnamestyle{\@firstname~}\familynamestyle{\@familyname}%
10846 \ifthenelse{\equal{\@title}{}}{\}\{\}\[1.25em]\titlestyle{\@title}}%
10847 \end{minipage}%
10848 % optional data
10849 \begin{minipage}[b]{\maketitledetailwidth}%
10850 \bidi@raggedleft\addressfont\@addresscolour%
10851 \ifthenelse{\isundefined{\@address}}{\}%
10852 \maketitledetailsnewline%
10853 \addresssymbol~\\\@address}%
10854 \ifthenelse{\isundefined{\@mobile}}{\}\{\}\maketitledetailsnewline\mobilesymbol~\@mobile}%
10855 \ifthenelse{\isundefined{\@phone}}{\}\{\}\maketitledetailsnewline\phonesymbol~\@phone}%
10856 \ifthenelse{\isundefined{\@fax}}{\}\{\}\maketitledetailsnewline\faxsymbol~\@fax}%
10857 \ifthenelse{\isundefined{\@email}}{\}\{\}\maketitledetailsnewline\emailsymbol~\emailink{\@email}}%
10858 \ifthenelse{\isundefined{\@extrainfo}}{\}\{\}\maketitledetailsnewline\@extrainfo}%
10859 \end{minipage}%
10860 % optional photo
10861 \ifthenelse{\isundefined{\@photo}}{\}%
10862 {\hspace*{\separatorcolumnwidth}\color{firstnamecolor}\framebox{\includegraphics[width=\separatorcolumnwidth]{\@photo}}}%
10863 % optional quote
10864 \ifthenelse{\isundefined{\@quote}}{\}%
10865 {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}}\%
10866 }
10867 }
10868 }

```

78 File dblfnote-xetex-bidi.def

```

10869 \ProvidesFile{dblfnote-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for dblfnote package]
10870 \let\autofooterule\relax
10871 \let\rightfootnoterule\relax
10872 \let\leftfootnoterule\relax
10873 \let\textwidthfootnoterule\relax
10874 \let\LRfootnoterule\relax
10875 \def\footnoterule{\kern-3\p@
10876 \hrule \@width \DFNcolumnwidth \kern 2.6\p@}%
10877 \AtBeginDocument{\let\dfn@latex@footnotetext\@footnotetext}
10878 \let\@footnotetext\dfn@footnotetext}
10879 \long\def\dfn@LTRfootnotetext#1{\setbox\dfn@boxa\vbox{
10880 \let\insert\dfn@gobble
10881 \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10882 \def\@makefnmark{\smash{\dfn@makefnmark}}
10883 \dfn@latex@LTRfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10884 \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10885 \ifdim\dfn@dima>\z@else
10886 \dfn@dima1sp\relax
10887 \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10888 \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10889 \ifvoid\dfn@ins\else
10890 \unvbox\dfn@ins \allowbreak \nointerlineskip \fi

```



```

10891         \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10892     \setbox\dfn@boxa\copy\dfn@ins
10893     \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10894     \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10895     \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10896     \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10897     \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10898 \AtBeginDocument{\let\dfn@latex@LTRfootnotetext\@LTRfootnotetext
10899 \let\@LTRfootnotetext\dfn@LTRfootnotetext}
10900 \long\def\dfn@RTLfootnotetext#1{{\setbox\dfn@boxa\vbox{
10901     \let\insert\dfn@gobble
10902     \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10903     \def\@makefnmark{\smash{\dfn@makefnmark}}
10904     \dfn@latex@RTLfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10905     \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10906     \ifdim\dfn@dima>\z@\else
10907         \dfn@dima1sp\relax
10908     \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10909     \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10910     \ifvoid\dfn@ins\else
10911         \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10912     \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10913     \setbox\dfn@boxa\copy\dfn@ins
10914     \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10915     \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10916     \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10917     \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10918     \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10919 \AtBeginDocument{\let\dfn@latex@RTLfootnotetext\@RTLfootnotetext
10920 \let\@RTLfootnotetext\dfn@RTLfootnotetext}
10921 \def\dfn@RTLmakecol{{\ifvoid\footins\else
10922     \dfn@dima\ht\footins
10923     \@tempcnta\z@ \dfn@countins
10924     \@tempdima\z@ \let\@elt\dfn@elt\getht
10925     \dfn@list\@nil
10926     \ifdim\@tempdima=\z@\else
10927     \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10928     \global\setbox\dfn@ins\box\dfn@ins
10929     \@tempswatrue
10930     \ifdfn@trysingle
10931         \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10932         \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10933         \advance\@tempdima-\skip\footins
10934         \advance\@tempdima-\ht\dfn@boxa
10935         \ifdim\@tempdima<\z@\else \@tempswafalse
10936             \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10937             \footnoterule \unvbox\dfn@boxa}\fi\fi
10938     \if@tempswa
10939     \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10940     \global\setbox\footins\vbox{\hbox{%
10941         \hskip \DFNcolumnwidth
10942         \hskip\DFNcolumnsep
10943         \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10944             \unvbox\dfn@boxb\vss}\hss}

```



```

10945         \hskip -\textwidth
10946         \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10947             \vbox to\@tempdima{
10948                 \setbox\@tempboxa\vbox{\footnoterule}
10949                 \ifdfn@ruleboth \unvbox\@tempboxa
10950                 \else \@tempdima\ht\@tempboxa
10951                     \advance\@tempdima\dp\@tempboxa
10952                     \vskip\@tempdima
10953                     \prevdepth\dp\@tempboxa \fi
10954                 \unvbox\dfn@boxa\vss}\fi\hss}
10955             \hskip \DFNcolumnsep
10956             \hskip \DFNcolumnwidth}}\fi\fi
10957     \global\dfn@fnht\z@
10958     \ifx\dfn@list\@empty\else
10959         \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10960         \dfn@list \global\advance\dfn@fnht\dfn@dimb
10961         \let\@elt\relax
10962         \ifdim\dfn@dimb>\z@
10963             \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10964             \insert\footins{\floatingpenalty\@MM
10965                 \vbox to\dfn@dimb{}}\fi
10966         \ifdim\dfn@fnht>\@tempdima
10967             \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10968             \global\dfn@fnht\@tempdima
10969             \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10970             \xdef\dfn@afteroutput{\insert\footins{
10971                 \floatingpenalty\@MM
10972                 \vbox to\number\@tempdimb sp{}}}%
10973             \global\let\noexpand\dfn@afteroutput\relax}%
10974         \fi\fi
10975     \fi}%
10976     \let\footnoterule\relax \dfn@latex@makecol
10977     \let\footnoterule\dfn@footnoterule}
10978 \def\dfn@LTRmakecol{\ifvoid\footins\else
10979     \dfn@dima\ht\footins
10980     \@tempcnta\z@ \dfn@countins
10981     \@tempdima\z@ \let\@elt\dfn@elt@getht
10982     \dfn@list\@nil
10983     \ifdim\@tempdima=\z@\else
10984         \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10985         \global\setbox\dfn@ins\box\dfn@ins
10986         \@tempswatrue
10987         \ifdfn@trysingle
10988             \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10989             \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10990             \advance\@tempdima-\skip\footins
10991             \advance\@tempdima-\ht\dfn@boxa
10992             \ifdim\@tempdima<\z@\else \@tempswafalse
10993                 \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10994                     \footnoterule \unvbox\dfn@boxa}\fi\fi
10995         \if@tempswa
10996             \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10997             \global\setbox\footins\vbox{\hbox{%
10998                 \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule

```



```

11099          \unvbox\dfn@boxb\vss}\hss}\hskip\DFNcolumnsep
11000          \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
11001            \vbox to\@tempdima{
11002              \setbox\@tempboxa\vbox{\footnoterule}
11003              \ifdfn@ruleboth \unvbox\@tempboxa
11004              \else \@tempdima\ht\@tempboxa
11005                  \advance\@tempdima\dp\@tempboxa
11006                  \vskip\@tempdima
11007                  \prevdepth\dp\@tempboxa \fi
11008            \unvbox\dfn@boxa\vss}\fi\hss}}}\fi\fi
11009      \global\dfn@fnht\z@
11010      \ifx\dfn@list\empty\else
11011        \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
11012        \dfn@list \global\advance\dfn@fnht\dfn@dimb
11013        \let\@elt\relax
11014        \ifdim\dfn@dimb>\z@
11015          \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
11016          \insert\footins{\floatingpenalty\@MM
11017            \vbox to\dfn@dimb{}}\fi
11018        \ifdim\dfn@fnht>\@tempdima
11019          \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
11020          \global\dfn@fnht\@tempdima
11021          \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
11022          \xdef\dfn@afteroutput{\insert\footins{
11023            \floatingpenalty\@MM
11024            \vbox to\number\@tempdimb sp{}}}%
11025          \global\let\noexpand\dfn@afteroutput\relax}%
11026        \fi\fi
11027      \fi}%
11028      \let\footnoterule\relax \dfn@latex@makecol
11029      \let\footnoterule\dfn@footnoterule}
11030 \renewcommand{\dfn@makecol}{\if@RTLmain\dfn@RTLmakecol\else\dfn@LTRmakecol\fi}
11031 \newcommand{\RTLdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@RTLmakecol}}
11032 \newcommand{\LTRdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@LTRmakecol}}
11033 \DFNalwaysdouble

```

79 File diagbox-xetex-bidi.def

```

11034 \ProvidesFile{diagbox-xetex-bidi.def}[2017/12/30 v0.2 bidi adaptations for diagbox package f
11035 \bidi@patchcmd{\diagbox@double}{%
11036   \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11037 }{\bidi@@diagbox@double@ii}{-}{-}
11038 \bidi@patchcmd{\diagbox@double}{%
11039   \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
11040 }{\bidi@@diagbox@double@iii}{-}{-}
11041 \newcommand*{\bidi@@diagbox@double@ii}{%
11042   \ifRTL
11043     \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepl}}}}
11044   \else
11045     \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11046   \fi
11047 }
11048 \newcommand*{\bidi@@diagbox@double@iii}{%
11049   \ifRTL

```



```

11050 \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
11051 \else
11052 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}
11053 \fi
11054 }
11055 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11056 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11057 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
11058 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11059 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11060 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
11061 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11062 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}
11063 }{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{-}{-}
11064 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{%
11065 \if@RTL
11066 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepl}}}
11067 \else
11068 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11069 \fi}
11070 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{%
11071 \if@RTL
11072 \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
11073 \else
11074 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}
11075 \fi}
11076 \let\diagbox@triple@setbox@SW\diagbox@triple@setbox@NW
11077 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11078 \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}%
11079 }{\bidi@@diagbox@triple@setbox@SE@tabular@i}{-}{-}
11080 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11081 \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
11082 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
11083 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11084 \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
11085 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
11086 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@i}{%
11087 \if@RTL
11088 \begin{tabular}{@{}r@{\hspace{\diagbox@insepl}}}
11089 \else
11090 \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}
11091 \fi
11092 }
11093 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{%
11094 \if@RTL
11095 \begin{tabular}{@{\hspace{\diagbox@insepr}}l@{}}
11096 \else
11097 \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}
11098 \fi
11099 }
11100 \let\diagbox@triple@setbox@NE\diagbox@triple@setbox@SE
11101 \bidi@patchcmd{\diagbox@double@pict@SE}{%
11102 \diagbox@setlinecolor
11103 \Line(0,\strip@pt{\diagbox@ht})(\strip@pt{\diagbox@wd},0)%

```



```

11104 }{%
11105   {\diagbox@setlinecolor
11106     \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)}%
11107 }{}{}
11108 \let\diagbox@double@pict@NW\diagbox@double@pict@SE
11109 \bidi@patchcmd{\diagbox@double@pict@NE}{%
11110   \diagbox@setlinecolor
11111   \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)}%
11112 }{%
11113   {\diagbox@setlinecolor
11114     \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)}%
11115 }{}{}
11116 \let\diagbox@double@pict@SW\diagbox@double@pict@NE
11117 \bidi@patchcmd{\diagbox@triple@pict@NW}{%
11118   \diagbox@setlinecolor
11119   \Line(0,\yym)(\x,0)
11120   \Line(\xm,\y)(\x,0)}%
11121 }{%
11122   {\diagbox@setlinecolor
11123     \Line(0,\yym)(\x,0)
11124     \Line(\xm,\y)(\x,0)}%
11125 }{}{}
11126 \bidi@patchcmd{\diagbox@triple@pict@NE}{%
11127   \diagbox@setlinecolor
11128   \Line(0,0)(\xxm,\y)
11129   \Line(0,0)(\x,\yym)}%
11130 }{%
11131   {\diagbox@setlinecolor
11132     \Line(0,0)(\xxm,\y)
11133     \Line(0,0)(\x,\yym)}%
11134 }{}{}
11135 \bidi@patchcmd{\diagbox@triple@pict@SW}{%
11136   \diagbox@setlinecolor
11137   \Line(0,\ym)(\x,\y)
11138   \Line(\xm,0)(\x,\y)}%
11139 }{%
11140   {\diagbox@setlinecolor
11141     \Line(0,\ym)(\x,\y)
11142     \Line(\xm,0)(\x,\y)}%
11143 }{}{}
11144 \bidi@patchcmd{\diagbox@triple@pict@SE}{%
11145   \diagbox@setlinecolor
11146   \Line(0,\y)(\xxm,0)
11147   \Line(0,\y)(\x,\ym)}%
11148 }{%
11149   {\diagbox@setlinecolor
11150     \Line(0,\y)(\xxm,0)
11151     \Line(0,\y)(\x,\ym)}%
11152 }{}{}

```

80 File draftwatermark-xetex-bidi.def

```

11153 \ProvidesFile{draftwatermark-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for draftwater
11154 \renewcommand\SetWatermarkText[1]{%

```




```
11155 \def\sc@wm@text{\if@RTLmain\beginR\fi#1\if@RTLmain\endR\fi}}
```

81 File eso-pic-xetex-bidi.def

```
11156 \ProvidesFile{eso-pic-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for eso-pic package f
11157 \renewcommand\AtPageLowerLeft[1]{\AtPageUpperLeft{%
11158 \put(\if@RTLmain\paperwidth\else 0\fi,-\paperheight){#1}}
11159
11160 \ESO@isMEMOIR{%
11161 \renewcommand\AtTextUpperLeft[1]{%
11162 \begingroup
11163 \ifodd\c@page
11164 \if@RTLmain
11165 \ESO@tempdima=\paperwidth
11166 \advance\ESO@tempdima-\textwidth
11167 \advance\ESO@tempdima-\spinemargin
11168 \else
11169 \ESO@tempdima=\spinemargin
11170 \fi
11171 \else
11172 \if@RTLmain
11173 \ESO@tempdima=\spinemargin
11174 \else
11175 \ESO@tempdima=\paperwidth
11176 \advance\ESO@tempdima-\textwidth
11177 \advance\ESO@tempdima-\spinemargin
11178 \fi
11179 \fi
11180 \ESO@tempdimb=-\uppermargin
11181 \AtPageUpperLeft{%
11182 \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11183 }%
11184 \endgroup
11185 }
11186 }{%
11187 \renewcommand\AtTextUpperLeft[1]{%
11188 \begingroup
11189 \ESO@tempdima=1in\relax
11190 \if@twoside
11191 \ifodd\c@page
11192 \if@RTLmain
11193 \advance\ESO@tempdima\evensidemargin
11194 \else
11195 \advance\ESO@tempdima\oddsidemargin
11196 \fi
11197 \else
11198 \if@RTLmain
11199 \advance\ESO@tempdima\oddsidemargin
11200 \else
11201 \advance\ESO@tempdima\evensidemargin
11202 \fi
11203 \fi
11204 \else
11205 \advance\ESO@tempdima\oddsidemargin
```



```

11206 \fi
11207 \ESO@tempdimb=-1in\relax
11208 \advance\ESO@tempdimb-\topmargin
11209 \advance\ESO@tempdimb-\headheight
11210 \advance\ESO@tempdimb-\headsep
11211 \AtPageUpperLeft{%
11212 \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11213 }%
11214 \endgroup
11215 }
11216 }

```

82 File empheq-xetex-bidi.def

```

11217 \ProvidesFile{empheq-xetex-bidi.def}[2018/01/08 v0.2 bidi adaptations for empheq package for
11218 \MHInternalSyntaxOn
11219 \def\EQ_tag_plus_endmark:{%
11220 \iftagsleft@
11221 \gdef\maketag@@@#1{%
11222 \hfuzz\displaywidth
11223 \if@RTL\makebox[\widthof{##1}][r]{%
11224 \hbox to \displaywidth{\m@th\normalfont##1\hss
11225 \raisebox{-\dp\EQ_mathdisplay_box
11226 -\depthof{\EQ_outerbox:}}{
11227 {\PotEndMark{\hss}}}}
11228 \else\makebox[\widthof{##1}][l]{%
11229 \hbox to \displaywidth{\m@th\normalfont##1\hss
11230 \raisebox{-\dp\EQ_mathdisplay_box
11231 -\depthof{\EQ_outerbox:}}{
11232 {\PotEndMark{\hss}}}}\fi}%
11233 \MH_else:
11234 \gdef\maketag@@@#1{%
11235 \hbox{\m@th\normalfont##1\llap{\hss\PotEndMark{%
11236 \settoheight{\@tempdima}{\@nameuse{\InTheoType Symbol}}}%
11237 \MH_addtolength:dn \@tempdima
11238 {\g_EQ_bottomtag_depth_dim+\mintagvsep}
11239 \setlength{\@tempdimb}
11240 {\g_EQ_bottomrow_depth_dim+\depthof{\EQ_outerbox:}}
11241 +\depthof{\EQ_innerbox:}}}}
11242 \MH_if_dim:w \@tempdima>\@tempdimb
11243 \MH_setlength:dn \@tempdima{-\dp\EQ_mathdisplay_box
11244 -\@tempdima+\g_EQ_bottomrow_depth_dim}
11245 \addtolength{\@tempdima}{\depthof{\EQ_innerbox:}}}%
11246 \def\EQ_next:{\raisebox{\@tempdima}}%
11247 \MH_else:
11248 \def\EQ_next:{
11249 \raisebox{-\dp\EQ_mathdisplay_box
11250 -\depthof{\EQ_outerbox:}}}%
11251 \MH_fi:\EQ_next:}}}%
11252 \MH_fi:}
11253 \def\EQ_post_process:{%
11254 \EQ_initialize:
11255 \EQ_begin_equation:
11256 \MH_if_boolean:nT {outer_mult}{

```



```

11257 \setkeys{MT_options_name:}{
11258   firstline-afterskip=Opt,
11259   lastline-preskip=Opt,
11260   multlined-width=Opt,
11261 }
11262 \ifodd \l_EQ_alignmentmode_int
11263   \setkeys{MT_options_name:}{multlined-pos=b}
11264 \MH_else:
11265   \setkeys{MT_options_name:}{multlined-pos=t}
11266 \MH_fi:
11267   \g@addto@macro\EQ_complete_mathdisplay:{
11268     \begin{MTmultlined}\relax}
11269 }
11270 \g@addto@macro\EQ_complete_mathdisplay:\EQ_mathbody:
11271 \MH_if_boolean:nT {outer_mult}{
11272   \g@addto@macro\EQ_complete_mathdisplay:{\end{MTmultlined}}
11273 }
11274 \EQ_end_equation:
11275 \edef\EQ_hyperref_link_fint{\number\Hy@linkcounter}
11276 \savecounters@
11277 \EQ_typeset_tags:
11278 \edef\l_EQ_equation_fint{\number\c@equation}
11279 \restorecounters@
11280 \Hy@linkcounter=\EQ_hyperref_link_fint
11281 \settowidth\l_EQ_totalwidth_dim{%
11282   $\EQ_left_side:\EQ_innerbox:{}\EQ_right_side:${}%
11283 \MH_if_boolean:nTF {outer_mult}
11284   { \def\EQ_next:{_mult} }
11285   { \def\EQ_next:{} }
11286 \@nameuse{EQ_modify_linewidth_
11287   \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
11288 \EQ_typeset_display:
11289 \@nameuse{EQ_find_displaywidth_
11290   \romannumeral\l_EQ_equationtype_int\EQ_next: :}
11291 \MH_addtolength:dn
11292 \l_EQ_totalwidth_dim{\l_EQ_displaywidth_dim}
11293 \savebox\EQ_mathdisplay_box[\l_EQ_totalwidth_dim][c]{%
11294   $\EQ_left_side:
11295   \EQ_innerbox:{%
11296     \MH_if_case:w \l_EQ_alignmentmode_int\MH_or:
11297     \makebox[\l_EQ_displaywidth_dim][c]
11298     {\usebox{\EQ_mathdisplay_box}}}%
11299   \MH_or:
11300   \makebox[\l_EQ_displaywidth_dim][c]
11301   {\usebox{\EQ_mathdisplay_box}}}%
11302   \MH_or:
11303   \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11304     \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11305       \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11306         \kern-\@mathmargin
11307       \MH_fi:
11308     \MH_fi:
11309     \usebox{\EQ_mathdisplay_box}}}%
11310   \else\makebox[\l_EQ_displaywidth_dim][l]{%

```



```

11311         \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11312         \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11313         \kern-\@mathmargin
11314         \MH_fi:
11315     \MH_fi:
11316     \usebox{\EQ_mathdisplay_box}}\fi%
11317 \MH_or:
11318 \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11319     \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11320     \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11321     \kern-\@mathmargin
11322     \MH_fi:
11323     \MH_fi:
11324     \usebox{\EQ_mathdisplay_box}}
11325 \else\makebox[\l_EQ_displaywidth_dim][l]{%
11326     \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11327     \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11328     \kern-\@mathmargin
11329     \MH_fi:
11330     \MH_fi:
11331     \usebox{\EQ_mathdisplay_box}}\fi%
11332 \MH_fi:}%
11333 \EQ_right_side:$}%
11334 \begin{AmSequation*}
11335 \@nameuse{EQ_place_display_
11336     \romannumeral\l_EQ_equationtype_int\EQ_next: :}
11337 \MH_if_dim:w \g_EQ_widesttag_dim>\z@
11338 \MH_set_boolean_T:n {show_manual_tags}
11339 \MH_if_case:w \l_EQ_alignmentmode_int
11340 \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#1
11341 \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#2
11342 \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#3
11343 \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#4
11344 \MH_fi:
11345 \MH_fi:
11346 \end{AmSequation*}
11347 \global\c@equation=\l_EQ_equation_fint\relax
11348 }
11349 \AtBeginDocument{%
11350 \@ifpackageloaded{fancybox}{%
11351     \@ifpackageloaded{color}{\definecolor{shadowcolor}{rgb}{0,0,0}}%
11352     {\renewcommand*{\textcolor[2]{\normalcolor{#2}}}%
11353     \renewcommand*{\shadowbox{%
11354         \@ifstar{\MH_set_boolean_T:n {shadowbox_star}
11355             \VerbBox\EQ_shadowbox:n}
11356         {\MH_set_boolean_F:n {shadowbox_star}
11357         \VerbBox\EQ_shadowbox:n}}
11358 \def\EQ_shadowbox:n #1{%
11359     \sbox{\z@}{\fbox{#1}}%
11360     \MH_if_boolean:nTF {shadowbox_star}{
11361         \MH_setlength:dn \@tempdima{\z@}%
11362     }{
11363         \MH_setlength:dn \@tempdima{\dp\z@+\shadowsize}%
11364     }

```



```

11365 \raisebox{\@tempdima}{%
11366 \if@RTL\makebox[\z@][r]{%
11367 \kern\shadowsize \textcolor{shadowcolor}{%
11368 \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
11369 }%
11370 \else\makebox[\z@][l]{%
11371 \kern\shadowsize \textcolor{shadowcolor}{%
11372 \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
11373 }\fi%
11374 \usebox\z@\textcolor{shadowcolor}{%
11375 \rule[-\dp\z@-\shadowsize]{\shadowsize}{\ht\z@+\dp\z@}}}%
11376 }{}%
11377 }
11378 \MHInternalSyntaxOff

```

83 File extarticle-xetex-bidi.def

```

11379 \ProvidesFile{extarticle-xetex-bidi.def}[2025/09/30 v0.8 bidi adaptations for extarticle cla
11380 \renewcommand*\l@section[2]{%
11381 \ifnum \c@tocdepth >\z@
11382 \addpenalty\@secpenalty
11383 \addvspace{1.0em \@plus\p@}%
11384 \setlength\@tempdima{1.5em}%
11385 \begingroup
11386 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11387 \parfillskip -\@pnumwidth
11388 \leavevmode \bfseries
11389 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
11390 \hskip -\if@RTL\rightskip\else\leftskip\fi
11391 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
11392 \endgroup
11393 \fi}
11394 \renewcommand*\l@part[2]{%
11395 \ifnum \c@tocdepth >-2\relax
11396 \addpenalty\@secpenalty
11397 \addvspace{2.25em \@plus\p@}%
11398 \begingroup
11399 \setlength\@tempdima{3em}%
11400 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11401 \parfillskip -\@pnumwidth
11402 {\leavevmode
11403 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11404 \nobreak
11405 \endgroup
11406 \fi}
11407 \ApplyPatchIfPackageLoaded{nameref}{%
11408 \bidi@patchcmd\NR@part\raggedright{%
11409 \if@RTL\raggedleft\else\raggedright\fi
11410 }{}{\bidi@warningnoline{Oops! patching `string\NR@part' failed}}%
11411 \bidi@patchcmd\NR@spart\raggedright{%
11412 \if@RTL\raggedleft\else\raggedright\fi
11413 }{}{\bidi@warningnoline{Oops! patching `string\NR@spart' failed}}%
11414 }{}%
11415 \bidi@patchcmd\@part\raggedright{%

```



```

11416 \if@RTL\raggedleft\else\raggedright\fi
11417 }{\if@warningnoline{Oops! patching `\'string\@part' failed}}}%
11418 \bidi@patchcmd\@spart\raggedright{%
11419 \if@RTL\raggedleft\else\raggedright\fi
11420 }{\if@warningnoline{Oops! patching `\'string\@spart' failed}}}%
11421 }
11422 \renewenvironment{thebibliography}[1]
11423 {\section*{\refname
11424 \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}}%
11425 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11426 \bidi@@thebibliography@font@hook%
11427 \list{\@biblabel{\@arabic{c@enumiv}}}%
11428 {\settowidth\labelwidth{\@biblabel{#1}}%
11429 \leftmargin\labelwidth
11430 \advance\leftmargin\labelsep
11431 \openbib@code
11432 \usecounter{enumiv}%
11433 \let\p@enumiv\@empty
11434 \renewcommand\theenumiv{\@arabic{c@enumiv}}}%
11435 \sloppy\clubpenalty4000\widowpenalty4000%
11436 \sfcode`.\@m}
11437 {\def\@noitemerr
11438 {\@latex@warning{Empty `thebibliography' environment}}}%
11439 \endlist}
11440 \renewcommand\left@footnoterule{%
11441 \kern-3\p@
11442 \hrule\@width.4\columnwidth
11443 \kern2.6\p@}
11444 \renewcommand\right@footnoterule{%
11445 \kern-3\p@
11446 \nointerlineskip
11447 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11448 \kern2.6\p@}
11449 \if@titlepage
11450 \renewcommand\maketitle{\begin{titlepage}%
11451 \let\footnotesize\small
11452 \let\right@footnoterule\relax
11453 \let\left@footnoterule\relax
11454 \let\textwidth\footnoterule\relax
11455 \let \footnote \thanks
11456 \null\vfil
11457 \vskip 60\p@
11458 \begin{center}%
11459 {\LARGE \@title \par}%
11460 \vskip 3em%
11461 {\large
11462 \lineskip .75em%
11463 \begin{tabular}[t]{c}%
11464 \@author
11465 \end{tabular}\par}%
11466 \vskip 1.5em%
11467 {\large \@date \par}% % Set date in \large size.
11468 \end{center}\par
11469 \@thanks

```



```

11470 \vfil\null
11471 \end{titlepage}%
11472 \setcounter{footnote}{0}%
11473 \global\let\thanks\relax
11474 \global\let\maketitle\relax
11475 \global\let\@thanks\@empty
11476 \global\let\@author\@empty
11477 \global\let\@date\@empty
11478 \global\let\@title\@empty
11479 \global\let\title\relax
11480 \global\let\author\relax
11481 \global\let\date\relax
11482 \global\let\and\relax
11483 }
11484 \else
11485 \renewcommand\maketitle{\par
11486 \begingroup
11487 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11488 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11489 \long\def\@makefntext##1{\parindent 1em\noindent
11490 \hb@xt@1.8em{%
11491 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11492 \if@twocolumn
11493 \ifnum \col@number=\@ne
11494 \@maketitle
11495 \else
11496 \twocolumn[\@maketitle]%
11497 \fi
11498 \else
11499 \newpage
11500 \global\@topnum\z@ % Prevents figures from going at top of page.
11501 \@maketitle
11502 \fi
11503 \thispagestyle{plain}\@thanks
11504 \endgroup
11505 \setcounter{footnote}{0}%
11506 \global\let\thanks\relax
11507 \global\let\maketitle\relax
11508 \global\let\@maketitle\relax
11509 \global\let\@thanks\@empty
11510 \global\let\@author\@empty
11511 \global\let\@date\@empty
11512 \global\let\@title\@empty
11513 \global\let\title\relax
11514 \global\let\author\relax
11515 \global\let\date\relax
11516 \global\let\and\relax
11517 }
11518 \def\@maketitle{%
11519 \newpage
11520 \null
11521 \vskip 2em%
11522 \begin{center}%
11523 \let \footnote \thanks

```



```

11524     {\LARGE \@title \par}%
11525     \vskip 1.5em%
11526     {\large
11527       \lineskip .5em%
11528       \begin{tabular}[t]{c}%
11529         \@author
11530       \end{tabular}\par}%
11531     \vskip 1em%
11532     {\large \@date}%
11533   \end{center}%
11534   \par
11535   \vskip 1.5em}
11536 \fi
11537 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@section}
11538 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11539 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11540 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}%%

```

84 File extbook-xetex-bidi.def

```

11541 \ProvidesFile{extbook-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extbook class for
11542 \if@titlepage
11543 \renewcommand\maketitle{\begin{titlepage}%
11544 \let\footnotesize\small
11545 \let\right@footnoterule\relax
11546 \let\left@footnoterule\relax
11547 \let\textwidth\footnoterule\relax
11548 \let \footnote \thanks
11549 \let \LTRfootnote \LTRthanks
11550 \let \RTLfootnote \RTLthanks
11551 \null\vfil
11552 \vskip 60\p@
11553 \begin{center}%
11554   {\LARGE \@title \par}%
11555   \vskip 3em%
11556   {\large
11557     \lineskip .75em%
11558     \begin{tabular}[t]{c}%
11559       \@author
11560     \end{tabular}\par}%
11561   \vskip 1.5em%
11562   {\large \@date \par}% % Set date in \large size.
11563 \end{center}\par
11564 \@thanks
11565 \vfil\null
11566 \end{titlepage}%
11567 \setcounter{footnote}{0}%
11568 \global\let\thanks\relax
11569 \global\let\LTRthanks\relax
11570 \global\let\RTLthanks\relax
11571 \global\let\maketitle\relax
11572 \global\let\@thanks\@empty
11573 \global\let\@author\@empty
11574 \global\let\@date\@empty

```




```

11575 \global\let\@title\@empty
11576 \global\let\title\relax
11577 \global\let\author\relax
11578 \global\let\date\relax
11579 \global\let\and\relax
11580 }
11581 \else
11582 \renewcommand\maketitle{\par
11583 \begin{group}
11584 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11585 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11586 \long\def\@makefntext##1{\parindent 1em\noindent
11587 \hb@xt@1.8em{%
11588 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11589 \if@twocolumn
11590 \ifnum \col@number=\@ne
11591 \maketitle
11592 \else
11593 \twocolumn[\maketitle]%
11594 \fi
11595 \else
11596 \newpage
11597 \global\@topnum\z@ % Prevents figures from going at top of page.
11598 \maketitle
11599 \fi
11600 \thispagestyle{plain}\@thanks
11601 \end{group}
11602 \setcounter{footnote}{0}%
11603 \global\let\thanks\relax
11604 \global\let\LTRthanks\relax
11605 \global\let\RTLthanks\relax
11606 \global\let\maketitle\relax
11607 \global\let\@maketitle\relax
11608 \global\let\@thanks\@empty
11609 \global\let\@author\@empty
11610 \global\let\@date\@empty
11611 \global\let\@title\@empty
11612 \global\let\title\relax
11613 \global\let\author\relax
11614 \global\let\date\relax
11615 \global\let\and\relax
11616 }
11617 \def\@maketitle{%
11618 \newpage
11619 \null
11620 \vskip 2em%
11621 \begin{center}%
11622 \let \footnote \thanks
11623 \let \LTRfootnote \LTRthanks
11624 \let \RTLfootnote \RTLthanks
11625 {\LARGE \@title \par}%
11626 \vskip 1.5em%
11627 {\large
11628 \lineskip .5em%

```



```

11629     \begin{tabular}[t]{c}%
11630     \@author
11631     \end{tabular}\par}%
11632     \vskip 1em%
11633     {\large \@date}%
11634     \end{center}%
11635     \par
11636     \vskip 1.5em}
11637 \fi
11638 \renewcommand*\l@part[2]{%
11639     \ifnum \c@tocdepth >-2\relax
11640     \addpenalty{-\@highpenalty}%
11641     \addvspace{2.25em \@plus\p@}%
11642     \begingroup
11643     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11644     \parfillskip -\@pnumwidth
11645     {\leavevmode
11646     \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11647     \nobreak
11648     \global\@nobreaktrue
11649     \everypar{\global\@nobreakfalse\everypar{}}}%
11650     \endgroup
11651     \fi}
11652 \renewcommand\theequation
11653     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
11654 \renewcommand \thefigure
11655     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
11656 \renewcommand \thetable
11657     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
11658 \renewcommand \thechapter {\@arabic\c@chapter}
11659 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
11660 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
11661 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
11662 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11663 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
11664 \def\@makechapterhead#1{%
11665     \vspace*{50\p@}%
11666     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
11667     \ifnum \c@secnumdepth >\m@ne
11668     \if@mainmatter
11669     \huge\bfseries \@chapapp\space \thechapter
11670     \par\nobreak
11671     \vskip 20\p@
11672     \fi
11673     \fi
11674     \interlinepenalty\@M
11675     \Huge \bfseries #1\par\nobreak
11676     \vskip 40\p@
11677     }}
11678
11679 \def\@makeschapterhead#1{%
11680     \vspace*{50\p@}%
11681     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11682     \normalfont

```



```

11683 \interlinepenalty\@M
11684 \Huge \bfseries #1\par\nobreak
11685 \vskip 40\p@
11686 }}
11687 \renewcommand\backmatter{%
11688 \if@openright
11689 \cleardoublepage
11690 \else
11691 \clearpage
11692 \fi
11693 \@mainmatterfalse}
11694 \renewenvironment{thebibliography}[1]
11695 {\chapter*{\bibname
11696 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
11697 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11698 \bidi@thebibliography@font@hook%
11699 \list{\@biblabel{\@arabic\c@enumiv}}%
11700 {\settowidth\labelwidth{\@biblabel{#1}}%
11701 \leftmargin\labelwidth
11702 \advance\leftmargin\labelsep
11703 \@openbib@code
11704 \usecounter{enumiv}%
11705 \let\p@enumiv\@empty
11706 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11707 \sloppy
11708 \clubpenalty4000
11709 \@clubpenalty \clubpenalty
11710 \widowpenalty4000%
11711 \sfcode\.\@m}
11712 {\def\@noitemerr
11713 {\@latex@warning{Empty `thebibliography' environment}}}%
11714 \endlist}

```

85 File extletter-xetex-bidi.def

```

11715 \ProvidesFile{extletter-xetex-bidi.def}[2025/09/30 v0.3 bidi adaptations for extletter class]
11716 \renewcommand*\opening[1]{\ifx\@empty\fromaddress
11717 \thispagestyle{firstpage}%
11718 {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
11719 \else % home address
11720 \thispagestyle{empty}%
11721 {\if@RTL\raggedright\begin{tabular}{r@{}}\else\raggedleft\begin{tabular}{l@{}}\fi\ignore
11722 \fromaddress \|[2\parskip]%
11723 \@date \end{tabular}\par}%
11724 \fi
11725 \vspace{2\parskip}%
11726 {\if@RTL\raggedleft\else\raggedright\fi \toname \[ \toaddress \par}%
11727 \vspace{2\parskip}%
11728 #1\par\nobreak}
11729 \renewcommand\closing[1]{\par\nobreak\vspace{\parskip}%
11730 \stopbreaks
11731 \noindent
11732 \ifx\@empty\fromaddress\else
11733 \hspace*\[longindentation]\fi

```



```

11734 \parbox{\indentedwidth}{\if@RTL\raggedleft\else\raggedright\fi
11735 \ignorespaces #1\[[6\medskipamount]%
11736 \ifx\@empty\fromsig
11737 \fromname
11738 \else \fromsig \fi\strut}%
11739 \par}
11740 \renewcommand\left@footnoterule{%
11741 \kern-\p@
11742 \hrule \@width .4\columnwidth
11743 \kern .6\p@}
11744 \renewcommand\right@footnoterule{%
11745 \kern-\p@
11746 \nointerlineskip
11747 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11748 \kern .6\p@}

```

86 File extrafootnotefeatures-xetex-bidi.def

```

11749 \ProvidesFile{extrafootnotefeatures-xetex-bidi.def}[2025/09/13 v2.8 bidi extra footnote feat
11750 \newdimen\bidi@columnwidth
11751 \def\bidi@floathook{%
11752 \bidi@columnwidth\columnwidth
11753 }
11754 \newcommand*{\@bidi@before@Hy@hyperfootnotes}{%
11755 \if@bidi@csundef{ifHy@hyperfootnotes}{-}{%
11756 \if@bidi@csundef{HLTR@LTRfootnotetext}{-}{%
11757 \ifHy@hyperfootnotes
11758 \let\@H@footnotetext\@footnotetext
11759 \let\@HLTR@LTRfootnotetext\@LTRfootnotetext
11760 \let\@HRTL@RTLfootnotetext\@RTLfootnotetext
11761 \let\@H@mpfootnotetext\@mpfootnotetext
11762 \let\@HLTR@mpLTRfootnotetext\@mpLTRfootnotetext
11763 \let\@HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
11764 \fi
11765 }%
11766 }%
11767 }
11768 \newcommand*{\@bidi@after@Hy@hyperfootnotes}{%
11769 \if@bidi@csundef{ifHy@hyperfootnotes}{-}{%
11770 \if@bidi@csundef{HLTR@LTRfootnotetext}{-}{%
11771 \ifHy@hyperfootnotes
11772 \let\H@footnotetext\@footnotetext
11773 \let\@footnotetext\@H@footnotetext
11774 \let\HLTR@LTRfootnotetext\@LTRfootnotetext
11775 \let\@LTRfootnotetext\@HLTR@LTRfootnotetext
11776 \let\HRTL@RTLfootnotetext\@RTLfootnotetext
11777 \let\@RTLfootnotetext\@HRTL@RTLfootnotetext
11778 \let\H@mpfootnotetext\@mpfootnotetext
11779 \let\@mpfootnotetext\@H@mpfootnotetext
11780 \let\HLTR@mpLTRfootnotetext\@mpLTRfootnotetext
11781 \let\@mpLTRfootnotetext\@HLTR@mpLTRfootnotetext
11782 \let\HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
11783 \let\@mpRTLfootnotetext\@HRTL@mpRTLfootnotetext
11784 \fi

```



```

11785 }%
11786 }%
11787 }
11788 \let\autofootnoterule\relax
11789 \let\rightfootnoterule\relax
11790 \let\leftfootnoterule\relax
11791 \let\textwidthfootnoterule\relax
11792 \let\LRfootnoterule\relax
11793 \def\footnoterule{\kern-3\p@
11794   \hrule \@width \columnwidth \kern 2.6\p@}
11795 \newcommand{\@preamnormalfmt}{%
11796   \parindent 1em%
11797   \noindent
11798 }
11799 \newcommand{\@normalfootfmt}[1]{%
11800   \@preamnormalfmt
11801   \footfootmark
11802   \rule{z@\footnotesep}{\ignorespaces{\foottextfont #1}%
11803     \@finalstrut\strutbox
11804 }
11805 \newcommand{\@normalRTLfootfmt}[1]{%
11806   \@preamnormalfmt
11807   \RTLfootfootmark
11808   \rule{z@\footnotesep}{\ignorespaces{\RTLfoottextfont #1}%
11809     \@finalstrut\strutbox
11810 }
11811 \newcommand{\@normalLTRfootfmt}[1]{%
11812   \@preamnormalfmt
11813   \LTRfootfootmark
11814   \rule{z@\footnotesep}{\ignorespaces{\LTRfoottextfont #1}%
11815     \@finalstrut\strutbox
11816 }
11817 \renewcommand{\@footnotetext}[1]{%
11818   \insert\footins{%
11819     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11820     \def\baselinestretch{\m@m@footnote@spacing}%
11821     \reset@font
11822     \foottextfont
11823     \@preamfntext
11824     \hsize\columnwidth
11825     \protected@edef\@currentlabel{%
11826       \csname p@footnote\endcsname\@thefnmark}%
11827     \color@begingroup
11828       \@normalfootfmt{#1}%
11829     \color@endgroup}%
11830     \m@m@mmf@prepare}
11831 \renewcommand{\@RTLfootnotetext}[1]{%
11832   \insert\footins{%
11833     \@RTLtrue%
11834     \def\baselinestretch{\m@m@footnote@spacing}%
11835     \reset@font
11836     \RTLfoottextfont
11837     \@preamfntext
11838     \hsize\columnwidth

```



```

11839 \protected@edef\@currentlabel{%
11840 \csname p@footnote\endcsname\@thefnmark}%
11841 \color@begingroup
11842 \normalRTLfootfmt{#1}%
11843 \color@endgroup}%
11844 \m@mmf@prepare}
11845 \renewcommand{\@LTRfootnotetext}[1]{%
11846 \insert\footins{%
11847 \@RTLfalse%
11848 \def\baselinestretch{\m@m@footnote@spacing}%
11849 \reset@font
11850 \LTRfoottextfont
11851 \@preamfntext
11852 \hsize\columnwidth
11853 \protected@edef\@currentlabel{%
11854 \csname p@footnote\endcsname\@thefnmark}%
11855 \color@begingroup
11856 \normalLTRfootfmt{#1}%
11857 \color@endgroup}%
11858 \m@mmf@prepare}
11859 \renewcommand{\@mpfootnotetext}[1]{%
11860 \global\setbox\@mpfootins\vbox{%
11861 \unvbox\@mpfootins
11862 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
11863 \def\baselinestretch{\m@m@footnote@spacing}%
11864 \reset@font%
11865 \foottextfont \hsize\columnwidth \@parboxrestore
11866 \protected@edef\@currentlabel{%
11867 \csname p@mpfootnote\endcsname\@thefnmark}%
11868 \color@begingroup
11869 \normalfootfmt{#1}%
11870 \color@endgroup}}
11871 \renewcommand{\@mplTRfootnotetext}[1]{%
11872 \global\setbox\@mpfootins\vbox{%
11873 \unvbox\@mpfootins
11874 \@RTLfalse
11875 \def\baselinestretch{\m@m@footnote@spacing}%
11876 \reset@font%
11877 \LTRfoottextfont \hsize\columnwidth \@parboxrestore
11878 \protected@edef\@currentlabel{%
11879 \csname p@mpfootnote\endcsname\@thefnmark}%
11880 \color@begingroup
11881 \normalLTRfootfmt{#1}%
11882 \color@endgroup}}
11883 \renewcommand{\@mpRTLfootnotetext}[1]{%
11884 \global\setbox\@mpfootins\vbox{%
11885 \unvbox\@mpfootins
11886 \@RTLtrue
11887 \def\baselinestretch{\m@m@footnote@spacing}%
11888 \reset@font%
11889 \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11890 \protected@edef\@currentlabel{%
11891 \csname p@mpfootnote\endcsname\@thefnmark}%
11892 \color@begingroup

```



```

11893 \normalRTLfootfmt{#1}%
11894 \color@endgroup}}
11895 \let\m@mold@footnotetext\@footnotetext
11896 \let\m@mold@LTRfootnotetext\@LTRfootnotetext
11897 \let\m@mold@RTLfootnotetext\@RTLfootnotetext
11898 \let\m@mold@mpfootnotetext\@mpfootnotetext
11899 \let\m@mold@mpLTRfootnotetext\@mpLTRfootnotetext
11900 \let\m@mold@mpRTLfootnotetext\@mpRTLfootnotetext
11901 \bidi@ensure@newcommand{\normalfootnotes}{%
11902 \@bidi@before@Hy@hyperfootnotes
11903 \let\@footnotetext\m@mold@footnotetext
11904 \let\@LTRfootnotetext\m@mold@LTRfootnotetext
11905 \let\@RTLfootnotetext\m@mold@RTLfootnotetext
11906 \let\@mpfootnotetext\m@mold@mpfootnotetext
11907 \let\@mpLTRfootnotetext\m@mold@mpLTRfootnotetext
11908 \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
11909 \@bidi@after@Hy@hyperfootnotes
11910 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11911 }
11912 \IfClassLoadedT{memoir}{\let\plainfootnotes\normalfootnotes}
11913 \bidi@ensure@newcommand*{\setSingleSpace}[1]{%
11914 \def\m@m@singlespace{#1}%
11915 \def\m@m@footnote@spacing{#1}%
11916 \def\m@m@float@spacing{#1} %
11917 }
11918 \setSingleSpace{1}
11919 \bidi@ensure@newcommand*{\multiplefootnotemarker}{3sp}
11920 \bidi@ensure@newcommand*{\m@m@mmf@prepare}{%
11921 \kern-\multiplefootnotemarker
11922 \kern\multiplefootnotemarker\relax}
11923 \bidi@ensure@newlength{\footmarkwidth}
11924 \bidi@ensure@newcommand*{\footmarkstyle}[1]{\def\footscript##1{#1}}
11925 \bidi@ensure@newcommand*{\LTRfootmarkstyle}[1]{\def\LTRfootscript##1{#1}}
11926 \bidi@ensure@newcommand*{\RTLfootmarkstyle}[1]{\def\RTLfootscript##1{#1}}
11927 \bidi@ensure@newcommand{\footfootmark}{%
11928 \ifdim\footmarkwidth < \z@
11929 \llap{\hb@xt@ -\footmarkwidth{%
11930 \hss\normalfont\footscript{\@thefnmark}}}%
11931 \hspace*{-\footmarkwidth}}%
11932 \else
11933 \ifdim\footmarkwidth = \z@
11934 {\normalfont\footscript{\@thefnmark}}%
11935 \else
11936 \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\@thefnmark}}%
11937 \fi
11938 \fi}
11939 \bidi@ensure@newcommand{\LTRfootfootmark}{%
11940 \ifdim\footmarkwidth < \z@
11941 \llap{\hb@xt@ -\footmarkwidth{%
11942 \hss\normalfont\LTRfootscript{\@thefnmark}}}%
11943 \hspace*{-\footmarkwidth}}%
11944 \else
11945 \ifdim\footmarkwidth = \z@
11946 {\normalfont\LTRfootscript{\@thefnmark}}%

```



```

11947 \else
11948 \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\@thefnmark}}%
11949 \fi
11950 \fi}
11951 \bidi@ensure@newcommand{\RTLfootfootmark}{%
11952 \ifdim\footmarkwidth < \z@
11953 \llap{\hb@xt@-\footmarkwidth{%
11954 \hss\normalfont\RTLfootscript{\@thefnmark}}%
11955 \hspace*{-\footmarkwidth}}%
11956 \else
11957 \ifdim\footmarkwidth = \z@
11958 {\normalfont\RTLfootscript{\@thefnmark}}%
11959 \else
11960 \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\@thefnmark}}%
11961 \fi
11962 \fi}
11963 \footmarkstyle{\textsuperscript{#1}}
11964 \LTRfootmarkstyle{\textsuperscript{#1}}
11965 \RTLfootmarkstyle{\textsuperscript{#1}}
11966 \newcommand*{\bidi@normal@footmarkwidth}{%
11967 \setlength{\footmarkwidth}{1em plus.3em minus.3em}%
11968 }
11969 \newcommand*{\bidi@star@footmarkwidth}{%
11970 \setlength{\footmarkwidth}{0em plus.3em minus.3em}%
11971 }
11972 \bidi@normal@footmarkwidth
11973 \bidi@ensure@newcommand{\m@mdoextrafeet}{\extrafeetins}
11974 \bidi@ensure@newcommand*{\extrafeetins}{%
11975 \bidi@joinfootnotes\footinsv@r\@footstartv@r\@footgroupv@r
11976 \bidi@joinfootnotes\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11977 \bidi@joinfootnotes\@bidi@copyins@}{\unvbox\@bidi@copyins@}%
11978 \extrafeetinshook}
11979 \bidi@ensure@newcommand{\extrafeetinshook}{%
11980 \bidi@ensure@newcommand{\foottextfont}{\footnotesize}
11981 \bidi@ensure@newcommand{\LTRfoottextfont}{\footnotesize}
11982 \bidi@ensure@newcommand{\RTLfoottextfont}{\footnotesize}
11983 \bidi@ensure@newlength{\footinsdim}
11984 \setlength{\footinsdim}{8in} % standard for \dimen\footins
11985 \bidi@ensure@newcommand{\@preamfntext}{%
11986 \interlinepenalty\interfootnotelinepenalty
11987 \floatingpenalty \@MM
11988 \splittopskip=\footnotesep
11989 \splitmaxdepth=\dp\strutbox
11990 \@parboxrestore}
11991 \def\bidi@ifmulticol#1#2{\@tempswafalse
11992 \ifnum\col@number>\@ne
11993 \ifnum\count\footins>1999 \@tempswatrue \fi
11994 \fi
11995 \if@tempswa #1\else #2\fi
11996 }
11997 \def\bidi@joinfootnotes#1#2#3{%
11998 \ifvoid#1
11999 \else
12000 \@tempskipa\skip#1%

```




```

12001 \bidi@ifmulticol{\divide\@tempskipa\col@number}{}%
12002 \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
12003 \bidi@removexfootskip
12004 \ifvoid\footins
12005 \global\setbox\footins\vbox{#2#3}%
12006 \else
12007 \global\setbox\footins\vbox{%
12008 \unvbox\footins
12009 \bidi@footskip
12010 #2#3%
12011 }%
12012 \fi
12013 \fi
12014 }
12015 \def\bidi@joinmpfootnotes#1#2#3{%
12016 \ifvoid#1
12017 \else
12018 \@tempskipa\skip#1%
12019 \bidi@ifmulticol{\divide\@tempskipa\col@number}{}%
12020 \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
12021 \bidi@removexfootskip
12022 \ifvoid\@mpfootins
12023 \global\setbox\@mpfootins\vbox{#2#3}%
12024 \else
12025 \global\setbox\@mpfootins\vbox{%
12026 \unvbox\@mpfootins
12027 \bidi@footskip
12028 #2#3%
12029 }%
12030 \fi
12031 \fi
12032 }
12033 \bidi@ensure@newcommand{\m@mdoextrafeetmini}{%
12034 \extrafeetminihook}
12035 \bidi@ensure@newcommand{\extrafeetendmini}{%
12036 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12037 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12038 \extrafeetendminihook}
12039 \bidi@ensure@newcommand{\extrafeetendminihook}{%
12040 \bidi@ensure@newcommand{\m@mdoextrafeetendmini}{\extrafeetendmini}
12041 \def\endminipage{%
12042 \par
12043 \unskip
12044 \m@mdoextrafeetendmini
12045 \ifvoid\@mpfootins
12046 \else
12047 \vskip\skip\@mpfootins
12048 \normalcolor
12049 \footnoterule
12050 \unvbox\@mpfootins
12051 \fi
12052 \@minipagefalse
12053 \color@endgroup
12054 \egroup

```



```

12055 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
12056 \bidi@ensure@newcommand{\m@make@footstart}[1]{%
12057 \@namedef{\footstart#1}{%
12058 \leftskip=\z@
12059 \rightskip=\z@
12060 \parindent=\z@
12061 }%
12062 }
12063 \newinsert\footinsv@r
12064 \skip\footinsv@r\skip\footins
12065 \count\footinsv@r=1000 % no magnification
12066 \dimen\footinsv@r=\footinsdim
12067 \m@make@footstart{v@r}
12068 \newinsert\footinsv@l
12069 \skip\footinsv@l\skip\footins
12070 \count\footinsv@l=1000 % no magnification
12071 \dimen\footinsv@l=\footinsdim
12072 \m@make@footstart{v@l}
12073 \bidi@ensure@newcommand{\@footgroupv@r}{}
12074 \newinsert\@mpfootinsv@r
12075 \skip\@mpfootinsv@r\skip\@mpfootins
12076 \newinsert\@mpfootinsv@l
12077 \skip\@mpfootinsv@l\skip\@mpfootins
12078 \bidi@ensure@newcommand{\mp@footgroupv@r}{}
12079 \newcount\m@m@k \newdimen\m@m@h
12080 \bidi@ensure@newcommand*\{\m@mrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12081 \@@line{\beginR\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12082 \valign{##\vfill\cr\m@mdosplits}\endR}}
12083 \newcommand*\{\bidi@LTRrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12084 \@@line{\beginL\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12085 \valign{##\vfill\cr\m@mdosplits}\endL}}
12086 \bidi@ensure@newcommand*\{\m@mdosplits}{\ifnum\m@m@k>0 \noalign{\hfil}\m@msplitoff
12087 \global\advance\m@m@k-1\cr\m@mdosplits\fi}
12088 \bidi@ensure@newcommand*\{\m@msplitoff}{\dimen0=\ht0
12089 \divide\dimen0 by\m@m@k \advance\dimen0 by\m@m@h
12090 \setbox2 \vsplit0 to \dimen0
12091 \unvbox2 }
12092 \bidi@ensure@newcommand{\twocolumnfootnotes}{%
12093 \@namedef{\foottextfontv@r}{\foottextfont}% % [RS]
12094 \@namedef{\foottextfontv@l}{\LTRfoottextfont}%
12095 \@bidi@before@Hy@hyperfootnotes
12096 \let\@footnotetext\@twocolfootnotetext
12097 \let\@LTRfootnotetext\@twocolLTRfootnotetext
12098 \let\@RTLfootnotetext\@twocolRTLfootnotetext
12099 \dimen\footinsv@r=2\footinsdim
12100 \count\footinsv@r=500\relax
12101 \m@make@twocol@footgroup{v@r}%
12102 \let\@footgroupv@r\@twocol@footgroupv@r
12103 \dimen\footinsv@l=2\footinsdim
12104 \count\footinsv@l=500\relax
12105 \bidi@make@twocol@LTRfootgroup{v@l}%
12106 \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l
12107 \let\@mpfootnotetext\@mptwocolfootnotetext
12108 \let\@mpLTRfootnotetext\@mptwocolLTRfootnotetext

```



```

12109 \let\@mpRTLfootnotetext\@mptwocolRTLfootnotetext
12110 \@bidi@after@Hy@hyperfootnotes
12111 \m@make@mptwocol@footgroup{v@r}%
12112 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
12113 \bidi@make@mptwocol@LTRfootgroup{v@l}%
12114 \let\mp@LTRfootgroupv@l\@mptwocol@LTRfootgroupv@l
12115 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12116 }
12117 \bidi@ensure@newcommand{\@twocolfootnotetext}[1]{\insert
12118 \ifRTL@footnote
12119 \footinsv@r
12120 \else
12121 \footinsv@l
12122 \fi
12123 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12124 \def\baselinestretch{\m@m@footnote@spacing}%
12125 \reset@font\foottextfont
12126 \@preamfntext
12127 \protected@edef\@currentlabel{%
12128 \csname p@footnote\endcsname\@thefnmark}%
12129 \color@begingroup
12130 \@twocolfootfmt{#1}%
12131 \color@endgroup}%
12132 \m@mmf@prepare}
12133 \bidi@ensure@newcommand{\@twocolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12134 \def\baselinestretch{\m@m@footnote@spacing}%
12135 \reset@font\LTRfoottextfont
12136 \@preamfntext
12137 \protected@edef\@currentlabel{%
12138 \csname p@footnote\endcsname\@thefnmark}%
12139 \color@begingroup
12140 \@twocolLTRfootfmt{#1}%
12141 \color@endgroup}%
12142 \m@mmf@prepare}
12143 \bidi@ensure@newcommand{\@twocolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12144 \def\baselinestretch{\m@m@footnote@spacing}%
12145 \reset@font\RTLfoottextfont
12146 \@preamfntext
12147 \protected@edef\@currentlabel{%
12148 \csname p@footnote\endcsname\@thefnmark}%
12149 \color@begingroup
12150 \@twocolRTLfootfmt{#1}%
12151 \color@endgroup}%
12152 \m@mmf@prepare}
12153 \bidi@ensure@newcommand{\@preamtwofmt}{%
12154 \hspace{.45\hspace}
12155 \parindent=\z@
12156 \tolerance=5000\relax
12157 \leavevmode}
12158 \bidi@ensure@newcommand{\@twocolfootfmt}[1]{%
12159 \@preamtwofmt
12160 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12161 \bidi@ensure@newcommand{\@twocolLTRfootfmt}[1]{%
12162 \@preamtwofmt

```



```

12163 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12164 \bidi@ensure@newcommand{\@twocolRTLfootfmt}[1]{%
12165   \@preamtwofmt
12166   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12167 \bidi@ensure@newcommand{\@mptwocolfootnotetext}[1]{%
12168   \global\setbox
12169     \if@RTL@footnote
12170     \@mpfootinsv@r
12171   \else
12172     \@mpfootinsv@l
12173   \fi
12174   \vbox{%
12175     \unvbox
12176     \if@RTL@footnote
12177     \@mpfootinsv@r
12178   \else
12179     \@mpfootinsv@l
12180   \fi
12181   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12182   \def\baselinestretch{\m@m@footnote@spacing}%
12183   \reset@font\foottextfont
12184   \hsize\columnwidth \@parboxrestore
12185   \protected@edef\@currentlabel{%
12186     \csname p@mpfootnote\endcsname\@thefnmark}%
12187   \color@begingroup
12188     \@twocolfootfmt{#1}%
12189   \color@endgroup}%
12190   \m@m@mmf@prepare}
12191 \bidi@ensure@newcommand{\@mptwocolLTRfootnotetext}[1]{%
12192   \global\setbox\@mpfootinsv@l\vbox{%
12193     \unvbox\@mpfootinsv@l
12194     \@RTLfalse
12195     \def\baselinestretch{\m@m@footnote@spacing}%
12196     \reset@font\LTRfoottextfont
12197     \hsize\columnwidth \@parboxrestore
12198     \protected@edef\@currentlabel{%
12199       \csname p@mpfootnote\endcsname\@thefnmark}%
12200   \color@begingroup
12201     \@twocolLTRfootfmt{#1}%
12202   \color@endgroup}%
12203   \m@m@mmf@prepare}
12204 \bidi@ensure@newcommand{\@mptwocolRTLfootnotetext}[1]{%
12205   \global\setbox\@mpfootinsv@r\vbox{%
12206     \unvbox\@mpfootinsv@r
12207     \@RTLtrue
12208     \def\baselinestretch{\m@m@footnote@spacing}%
12209     \reset@font\RTLfoottextfont
12210     \hsize\columnwidth \@parboxrestore
12211     \protected@edef\@currentlabel{%
12212       \csname p@mpfootnote\endcsname\@thefnmark}%
12213   \color@begingroup
12214     \@twocolRTLfootfmt{#1}%
12215   \color@endgroup}%
12216   \m@m@mmf@prepare}

```



```

12217 \bidi@ensure@newcommand{\m@make@twocol@footgroup}[1]{%
12218   \@namedef{@twocol@footgroup#1}{%
12219     \def\baselinestretch{\m@m@footnote@spacing}%
12220     \hsize\bidi@columnwidth
12221     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12222     \m@rigrigidbodybalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}%
12223 \newcommand{\bidi@make@twocol@LTRfootgroup}[1]{%
12224   \@namedef{@twocol@LTRfootgroup#1}{%
12225     \def\baselinestretch{\m@m@footnote@spacing}%
12226     \hsize\bidi@columnwidth
12227     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12228     \bidi@LTRrigrigidbodybalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}%
12229 \bidi@ensure@newcommand{\m@make@mptwocol@footgroup}[1]{%
12230   \@namedef{@mptwocol@footgroup#1}{%
12231     \def\baselinestretch{\m@m@footnote@spacing}%
12232     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12233     \m@rigrigidbodybalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}%
12234 \newcommand{\bidi@make@mptwocol@LTRfootgroup}[1]{%
12235   \@namedef{@mptwocol@LTRfootgroup#1}{%
12236     \def\baselinestretch{\m@m@footnote@spacing}%
12237     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12238     \bidi@LTRrigrigidbodybalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}%
12239 \bidi@ensure@newcommand{\threecolumnfootnotes}{%
12240   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12241   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12242   \@bidi@before@Hy@hyperfootnotes
12243   \let\@footnotetext\@threecolfootnotetext
12244   \let\@LTRfootnotetext\@threecolLTRfootnotetext
12245   \let\@RTLfootnotetext\@threecolRTLfootnotetext
12246   \dimen\footinsv@r=3\footinsdim
12247   \count\footinsv@r=333\relax
12248   \m@make@threecol@footgroup{v@r}%
12249   \let\@footgroupv@r\@threecol@footgroupv@r
12250   \dimen\footinsv@l=3\footinsdim
12251   \count\footinsv@l=333\relax
12252   \bidi@make@threecol@LTRfootgroup{v@l}%
12253   \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l
12254   \let\@mpfootnotetext\@mpthreecolfootnotetext
12255   \let\@mpLTRfootnotetext\@mpthreecolLTRfootnotetext
12256   \let\@mpRTLfootnotetext\@mpthreecolRTLfootnotetext
12257   \@bidi@after@Hy@hyperfootnotes
12258   \m@make@mpthreecol@footgroup{v@r}%
12259   \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12260   \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12261   \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l
12262   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12263 }
12264 \bidi@ensure@newcommand{\@threecolfootnotetext}[1]{\insert
12265   \if@RTL@footnote
12266     \footinsv@r
12267   \else
12268     \footinsv@l
12269   \fi
12270 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%

```



```

12271 \def\baselinestretch{\m@m@footnote@spacing}%
12272 \reset@font\foottextfont
12273 \@preamfntext
12274 \protected@edef\@currentlabel{%
12275   \csname p@footnote\endcsname\@thefnmark}%
12276 \color@begingroup
12277   \@threecolfootfmt{#1}%
12278 \color@endgroup}\m@mmf@prepare}
12279 \bidi@ensure@newcommand{\@threecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12280 \def\baselinestretch{\m@m@footnote@spacing}%
12281 \reset@font\LTRfoottextfont
12282 \@preamfntext
12283 \protected@edef\@currentlabel{%
12284   \csname p@footnote\endcsname\@thefnmark}%
12285 \color@begingroup
12286   \@threecolLTRfootfmt{#1}%
12287 \color@endgroup}\m@mmf@prepare}
12288 \bidi@ensure@newcommand{\@threecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12289 \def\baselinestretch{\m@m@footnote@spacing}%
12290 \reset@font\RTLfoottextfont
12291 \@preamfntext
12292 \protected@edef\@currentlabel{%
12293   \csname p@footnote\endcsname\@thefnmark}%
12294 \color@begingroup
12295   \@threecolRTLfootfmt{#1}%
12296 \color@endgroup}\m@mmf@prepare}
12297 \bidi@ensure@newcommand{\@preamthreefmt}{%
12298   \hsize .3\hsize
12299   \parindent=\z@
12300   \tolerance=5000\relax
12301   \leavevmode}
12302 \bidi@ensure@newcommand{\@threecolfootfmt}[1]{%
12303   \@preamthreefmt
12304   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12305 \bidi@ensure@newcommand{\@threecolLTRfootfmt}[1]{%
12306   \@preamthreefmt
12307   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12308 \bidi@ensure@newcommand{\@threecolRTLfootfmt}[1]{%
12309   \@preamthreefmt
12310   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12311 \bidi@ensure@newcommand{\@mpthreecolfootnotetext}[1]{%
12312   \global\setbox
12313     \if@RTL@footnote
12314     \@mpfootinsv@r
12315   \else
12316     \@mpfootinsv@l
12317   \fi
12318   \vbox{%
12319     \unvbox
12320     \if@RTL@footnote
12321     \@mpfootinsv@r
12322   \else
12323     \@mpfootinsv@l
12324   \fi

```



```

12325 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi
12326 \def\baselinestretch{\m@m@footnote@spacing}%
12327 \reset@font\foottextfont
12328 \hsize\columnwidth \@parboxrestore
12329 \protected@edef\@currentlabel{%
12330 \csname p@mpfootnote\endcsname\@thefnmark}%
12331 \color@begingroup
12332 \@threecolfootfmt{#1}%
12333 \color@endgroup}\m@mmf@prepare}
12334 \bidi@ensure@newcommand{\@mpthreecolLTRfootnotetext}[1]{%
12335 \global\setbox\@mpfootinsv@l\vbox{%
12336 \unvbox\@mpfootinsv@l
12337 \@RTLfalse
12338 \def\baselinestretch{\m@m@footnote@spacing}%
12339 \reset@font\LTRfoottextfont
12340 \hsize\columnwidth \@parboxrestore
12341 \protected@edef\@currentlabel{%
12342 \csname p@mpfootnote\endcsname\@thefnmark}%
12343 \color@begingroup
12344 \@threecolLTRfootfmt{#1}%
12345 \color@endgroup}\m@mmf@prepare}
12346 \bidi@ensure@newcommand{\@mpthreecolRTLfootnotetext}[1]{%
12347 \global\setbox\@mpfootinsv@r\vbox{%
12348 \unvbox\@mpfootinsv@r
12349 \@RTLtrue
12350 \def\baselinestretch{\m@m@footnote@spacing}%
12351 \reset@font\RTLfoottextfont
12352 \hsize\columnwidth \@parboxrestore
12353 \protected@edef\@currentlabel{%
12354 \csname p@mpfootnote\endcsname\@thefnmark}%
12355 \color@begingroup
12356 \@threecolRTLfootfmt{#1}%
12357 \color@endgroup}\m@mmf@prepare}
12358 \bidi@ensure@newcommand{\m@make@threecol@footgroup}[1]{%
12359 \@namedef{\@threecol@footgroup#1}{\{
12360 \def\baselinestretch{\m@m@footnote@spacing}%
12361 \hsize\bidi@columnwidth
12362 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12363 \m@mrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
12364 \newcommand{\bidi@make@threecol@LTRfootgroup}[1]{%
12365 \@namedef{\@threecol@LTRfootgroup#1}{\{
12366 \def\baselinestretch{\m@m@footnote@spacing}%
12367 \hsize\bidi@columnwidth
12368 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12369 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
12370 \bidi@ensure@newcommand{\m@make@mpthreecol@footgroup}[1]{%
12371 \@namedef{\@mpthreecol@footgroup#1}{\{
12372 \def\baselinestretch{\m@m@footnote@spacing}%
12373 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12374 \m@mrigidbalance{\@nameuse{mpfootins#1}}{\thr@@}{\splittopskip}}}}
12375 \newcommand{\bidi@make@mpthreecol@LTRfootgroup}[1]{%
12376 \@namedef{\@mpthreecol@LTRfootgroup#1}{\{
12377 \def\baselinestretch{\m@m@footnote@spacing}%
12378 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox

```



```

12379 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{\thr@@}{\splittopskip}}}}
12380 \bidi@ensure@newcommand{\fourcolumnfootnotes}{%
12381 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12382 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12383 \@bidi@before@Hy@hyperfootnotes
12384 \let\@footnotetext\@fourcolfootnotetext
12385 \let\@LTRfootnotetext\@fourcolLTRfootnotetext
12386 \let\@RTLfootnotetext\@fourcolRTLfootnotetext
12387 \dimen\footinsv@r=4\footinsdim
12388 \count\footinsv@r=250\relax
12389 \m@make@fourcol@footgroup{v@r}%
12390 \let\@footgroupv@r\@fourcol@footgroupv@r
12391 \dimen\footinsv@l=4\footinsdim
12392 \count\footinsv@l=250\relax
12393 \bidi@make@fourcol@LTRfootgroup{v@l}%
12394 \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12395 \let\@mpfootnotetext\@mpfourcolfootnotetext
12396 \let\@mpLTRfootnotetext\@mpfourcolLTRfootnotetext
12397 \let\@mpRTLfootnotetext\@mpfourcolRTLfootnotetext
12398 \@bidi@after@Hy@hyperfootnotes
12399 \m@make@mpfourcol@footgroup{v@r}%
12400 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12401 \bidi@make@mpfourcol@LTRfootgroup{v@l}%
12402 \let\mp@LTRfootgroupv@l\@mpfourcol@LTRfootgroupv@l
12403 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12404 }
12405 \bidi@ensure@newcommand{\@fourcolfootnotetext}[1]{\insert
12406 \if@RTL@footnote
12407 \footinsv@r
12408 \else
12409 \footinsv@l
12410 \fi
12411 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12412 \def\baselinestretch{\m@m@footnote@spacing}%
12413 \reset@font\foottextfont
12414 \@preamfntext
12415 \protected@edef\@currentlabel{%
12416 \csname p@footnote\endcsname\@thefnmark}%
12417 \color@begingroup
12418 \@fourcolfootfmt{#1}%
12419 \color@endgroup}%
12420 \m@m@mmf@prepare}
12421 \bidi@ensure@newcommand{\@fourcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12422 \def\baselinestretch{\m@m@footnote@spacing}%
12423 \reset@font\LTRfoottextfont
12424 \@preamfntext
12425 \protected@edef\@currentlabel{%
12426 \csname p@footnote\endcsname\@thefnmark}%
12427 \color@begingroup
12428 \@fourcolLTRfootfmt{#1}%
12429 \color@endgroup}%
12430 \m@m@mmf@prepare}
12431 \bidi@ensure@newcommand{\@fourcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12432 \def\baselinestretch{\m@m@footnote@spacing}%

```




```

12433 \reset@font\RTLfoottextfont
12434 \@preamfntext
12435 \protected@edef\@currentlabel{%
12436   \csname p@footnote\endcsname\@thefnmark}%
12437 \color@begingroup
12438   \@fourcolRTLfootfmt{#1}%
12439 \color@endgroup}%
12440 \m@mmf@prepare}
12441 \bidi@ensure@newcommand{\@preamfourfmt}{%
12442   \hsize .25\hsize
12443   \parindent=\z@
12444   \tolerance=5000\relax
12445   \leavevmode}
12446 \bidi@ensure@newcommand{\@fourcolfootfmt}[1]{%
12447   \@preamfourfmt
12448   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12449 \bidi@ensure@newcommand{\@fourcolLTRfootfmt}[1]{%
12450   \@preamfourfmt
12451   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12452 \bidi@ensure@newcommand{\@fourcolRTLfootfmt}[1]{%
12453   \@preamfourfmt
12454   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12455 \bidi@ensure@newcommand{\@mpfourcolfootnotetext}[1]{%
12456   \global\setbox
12457     \if@RTL@footnote
12458     \@mpfootinsv@r
12459   \else
12460     \@mpfootinsv@l
12461   \fi
12462   \vbox{%
12463     \unvbox
12464     \if@RTL@footnote
12465     \@mpfootinsv@r
12466   \else
12467     \@mpfootinsv@l
12468   \fi
12469   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12470   \def\baselinestretch{\m@m@footnote@spacing}%
12471   \reset@font\foottextfont
12472   \hsize\columnwidth \@parboxrestore
12473   \protected@edef\@currentlabel{%
12474     \csname p@mpfootnote\endcsname\@thefnmark}%
12475   \color@begingroup
12476     \@fourcolfootfmt{#1}%
12477   \color@endgroup}%
12478   \m@mmf@prepare}
12479 \bidi@ensure@newcommand{\@mpfourcolLTRfootnotetext}[1]{%
12480   \global\setbox\@mpfootinsv@l\vbox{%
12481     \unvbox\@mpfootinsv@l
12482     \@RTLfalse
12483     \def\baselinestretch{\m@m@footnote@spacing}%
12484     \reset@font\LTRfoottextfont
12485     \hsize\columnwidth \@parboxrestore
12486     \protected@edef\@currentlabel{%

```



```

12487 \csname p@mpfootnote\endcsname\@thefnmark}%
12488 \color@begingroup
12489 \@fourcolLTRfootfmt{#1}%
12490 \color@endgroup}%
12491 \m@mmf@prepare}
12492 \bidi@ensure@newcommand{\@mpfourcolRTLfootnotetext}[1]{%
12493 \global\setbox\@mpfootinsv@r\vbox{%
12494 \unvbox\@mpfootinsv@r
12495 \@RTLtrue
12496 \def\baselinestretch{\m@m@footnote@spacing}%
12497 \reset@font\RTLfoottextfont
12498 \hsize\columnwidth \@parboxrestore
12499 \protected@edef\@currentlabel{%
12500 \csname p@mpfootnote\endcsname\@thefnmark}%
12501 \color@begingroup
12502 \@fourcolRTLfootfmt{#1}%
12503 \color@endgroup}%
12504 \m@mmf@prepare}
12505 \bidi@ensure@newcommand{\m@make@fourcol@footgroup}[1]{%
12506 \@namedef{\@fourcol@footgroup#1}{%
12507 \def\baselinestretch{\m@m@footnote@spacing}%
12508 \hsize\bidi@columnwidth
12509 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12510 \m@mrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}}
12511 \newcommand{\bidi@make@fourcol@LTRfootgroup}[1]{%
12512 \@namedef{\@fourcol@LTRfootgroup#1}{%
12513 \def\baselinestretch{\m@m@footnote@spacing}%
12514 \hsize\bidi@columnwidth
12515 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12516 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}}
12517 \bidi@ensure@newcommand{\m@make@mpfourcol@footgroup}[1]{%
12518 \@namedef{\@mpfourcol@footgroup#1}{%
12519 \def\baselinestretch{\m@m@footnote@spacing}%
12520 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12521 \m@mrigidbalance{\@nameuse{\@mpfootins#1}}{4}{\splittopskip}}}}
12522 \newcommand{\bidi@make@mpfourcol@LTRfootgroup}[1]{%
12523 \@namedef{\@mpfourcol@LTRfootgroup#1}{%
12524 \def\baselinestretch{\m@m@footnote@spacing}%
12525 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12526 \bidi@LTRrigidbalance{\@nameuse{\@mpfootins#1}}{4}{\splittopskip}}}}
12527 \bidi@ensure@newcommand{\fivecolumnfootnotes}{%
12528 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12529 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12530 \@bidi@before@Hy@hyperfootnotes
12531 \let\@footnotetext\@fivecolfootnotetext
12532 \let\@LTRfootnotetext\@fivecolLTRfootnotetext
12533 \let\@RTLfootnotetext\@fivecolRTLfootnotetext
12534 \dimen\footinsv@r=5\footinsdim
12535 \count\footinsv@r=200\relax
12536 \m@make@fivecol@footgroup{v@r}%
12537 \let\@footgroupv@r\@fivecol@footgroupv@r
12538 \dimen\footinsv@l=5\footinsdim
12539 \count\footinsv@l=200\relax
12540 \bidi@make@fivecol@LTRfootgroup{v@l}%

```



```

12541 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
12542 \let\@mpfootnotetext\@mpfivecolfootnotetext
12543 \let\@mpLTRfootnotetext\@mpfivecolLTRfootnotetext
12544 \let\@mpRTLfootnotetext\@mpfivecolRTLfootnotetext
12545 \@bidi@after@Hy@hyperfootnotes
12546 \m@make@mpfivecol@footgroup{v@r}%
12547 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
12548 \bidi@make@mpfivecol@LTRfootgroup{v@l}%
12549 \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l
12550 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12551 }
12552 \bidi@ensure@newcommand{\@fivecolfootnotetext}[1]{\insert
12553   \if@RTL@footnote
12554     \footinsv@r
12555   \else
12556     \footinsv@l
12557   \fi
12558 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12559   \def\baselinestretch{\m@footnote@spacing}%
12560   \reset@font\foottextfont
12561   \@preamfntext
12562   \protected@edef\@currentlabel{%
12563     \csname p@footnote\endcsname\@thefnmark}%
12564   \color@begingroup
12565     \@fivecolfootfmt{#1}%
12566   \color@endgroup}%
12567   \m@mmf@prepare}
12568 \bidi@ensure@newcommand{\@fivecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12569   \def\baselinestretch{\m@footnote@spacing}%
12570   \reset@font\LTRfoottextfont
12571   \@preamfntext
12572   \protected@edef\@currentlabel{%
12573     \csname p@footnote\endcsname\@thefnmark}%
12574   \color@begingroup
12575     \@fivecolLTRfootfmt{#1}%
12576   \color@endgroup}%
12577   \m@mmf@prepare}
12578 \bidi@ensure@newcommand{\@fivecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12579   \def\baselinestretch{\m@footnote@spacing}%
12580   \reset@font\RTLfoottextfont
12581   \@preamfntext
12582   \protected@edef\@currentlabel{%
12583     \csname p@footnote\endcsname\@thefnmark}%
12584   \color@begingroup
12585     \@fivecolRTLfootfmt{#1}%
12586   \color@endgroup}%
12587   \m@mmf@prepare}
12588 \bidi@ensure@newcommand{\@preamfivefmt}{%
12589   \hspace{.2\hsize}
12590   \parindent=\z@
12591   \tolerance=5000\relax
12592   \leavevmode}
12593 \bidi@ensure@newcommand{\@fivecolfootfmt}[1]{%
12594   \@preamfivefmt

```



```

12595 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12596 \bidi@ensure@newcommand{\@fivecolLTRfootfmt}[1]{%
12597   \@preamfivefmt
12598   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12599 \bidi@ensure@newcommand{\@fivecolRTLfootfmt}[1]{%
12600   \@preamfivefmt
12601   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12602 \bidi@ensure@newcommand{\@mpfivecolfootnotetext}[1]{%
12603   \global\setbox
12604     \if@RTL@footnote
12605     \@mpfootinsv@r
12606   \else
12607     \@mpfootinsv@l
12608   \fi
12609   \vbox{%
12610     \unvbox
12611     \if@RTL@footnote
12612     \@mpfootinsv@r
12613   \else
12614     \@mpfootinsv@l
12615   \fi
12616   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12617   \def\baselinestretch{\m@m@footnote@spacing}%
12618   \reset@font\foottextfont
12619   \hsize\columnwidth \@parboxrestore
12620   \protected@edef\@currentlabel{%
12621     \csname p@mpfootnote\endcsname\@thefnmark}%
12622   \color@begingroup
12623     \@fivecolfootfmt{#1}%
12624   \color@endgroup}%
12625   \m@mmf@prepare}
12626 \bidi@ensure@newcommand{\@mpfivecolLTRfootnotetext}[1]{%
12627   \global\setbox\@mpfootinsv@l\vbox{%
12628     \unvbox\@mpfootinsv@l
12629     \@RTLfalse
12630     \def\baselinestretch{\m@m@footnote@spacing}%
12631     \reset@font\LTRfoottextfont
12632     \hsize\columnwidth \@parboxrestore
12633     \protected@edef\@currentlabel{%
12634       \csname p@mpfootnote\endcsname\@thefnmark}%
12635     \color@begingroup
12636       \@fivecolLTRfootfmt{#1}%
12637     \color@endgroup}%
12638     \m@mmf@prepare}
12639 \bidi@ensure@newcommand{\@mpfivecolRTLfootnotetext}[1]{%
12640   \global\setbox\@mpfootinsv@r\vbox{%
12641     \unvbox\@mpfootinsv@r
12642     \@RTLtrue
12643     \def\baselinestretch{\m@m@footnote@spacing}%
12644     \reset@font\RTLfoottextfont
12645     \hsize\columnwidth \@parboxrestore
12646     \protected@edef\@currentlabel{%
12647       \csname p@mpfootnote\endcsname\@thefnmark}%
12648     \color@begingroup

```



```

12649 \@fivecolRTLfootfmt{#1}%
12650 \color@endgroup}%
12651 \m@mmf@prepare}
12652 \bidi@ensure@newcommand{\m@make@fivecol@footgroup}[1]{%
12653 \@namedef{@fivecol@footgroup#1}{%
12654 \def\baselinestretch{\m@m@footnote@spacing}%
12655 \hsize\bidi@columnwidth
12656 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12657 \m@mrigidbodybalance{\@nameuse{footins#1}}{5}{\splittopskip}}}}
12658 \newcommand{\bidi@make@fivecol@LTRfootgroup}[1]{%
12659 \@namedef{@fivecol@LTRfootgroup#1}{%
12660 \def\baselinestretch{\m@m@footnote@spacing}%
12661 \hsize\bidi@columnwidth
12662 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12663 \bidi@LTRigidbodybalance{\@nameuse{footins#1}}{5}{\splittopskip}}}}
12664 \bidi@ensure@newcommand{\m@make@mpfivecol@footgroup}[1]{%
12665 \@namedef{@mpfivecol@footgroup#1}{%
12666 \def\baselinestretch{\m@m@footnote@spacing}%
12667 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12668 \m@mrigidbodybalance{\@nameuse{mpfootins#1}}{5}{\splittopskip}}}}
12669 \newcommand{\bidi@make@mpfivecol@LTRfootgroup}[1]{%
12670 \@namedef{@mpfivecol@LTRfootgroup#1}{%
12671 \def\baselinestretch{\m@m@footnote@spacing}%
12672 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12673 \bidi@LTRigidbodybalance{\@nameuse{mpfootins#1}}{5}{\splittopskip}}}}
12674 \bidi@ensure@newcommand{\sixcolumnfootnotes}{%
12675 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12676 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12677 \@bidi@before@Hy@hyperfootnotes
12678 \let\@footnotetext\@sixcolfootnotetext
12679 \let\@LTRfootnotetext\@sixcolLTRfootnotetext
12680 \let\@RTLfootnotetext\@sixcolRTLfootnotetext
12681 \dimen\footinsv@r=6\footinsdim
12682 \count\footinsv@r=166\relax
12683 \m@make@sixcol@footgroup{v@r}%
12684 \let\@footgroupv@r\@sixcol@footgroupv@r
12685 \dimen\footinsv@l=6\footinsdim
12686 \count\footinsv@l=166\relax
12687 \bidi@make@sixcol@LTRfootgroup{v@l}%
12688 \let\@LTRfootgroupv@l\@sixcol@LTRfootgroupv@l
12689 \let\@mpfootnotetext\@mpsixcolfootnotetext
12690 \let\@mpLTRfootnotetext\@mpsixcolLTRfootnotetext
12691 \let\@mpRTLfootnotetext\@mpsixcolRTLfootnotetext
12692 \@bidi@after@Hy@hyperfootnotes
12693 \m@make@mpsixcol@footgroup{v@r}%
12694 \let\mp@footgroupv@r\@mpsixcol@footgroupv@r
12695 \bidi@make@mpsixcol@LTRfootgroup{v@l}%
12696 \let\mp@LTRfootgroupv@l\@mpsixcol@LTRfootgroupv@l
12697 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12698 }
12699 \bidi@ensure@newcommand{\@sixcolfootnotetext}[1]{\insert
12700 \if@RTL@footnote
12701 \footinsv@r
12702 \else

```



```

12703 \footinsv@l
12704 \fi
12705 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12706 \def\baselinestretch{\m@{footnote@spacing}%
12707 \reset@font\foottextfont
12708 \@preamfntext
12709 \protected@edef\@currentlabel{%
12710 \csname p@footnote\endcsname\@thefnmark}%
12711 \color@begingroup
12712 \@sixcolfootfmt{#1}%
12713 \color@endgroup}%
12714 \m@{mmf@prepare}
12715 \bidi@ensure@newcommand{\@sixcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12716 \def\baselinestretch{\m@{footnote@spacing}%
12717 \reset@font\LTRfoottextfont
12718 \@preamfntext
12719 \protected@edef\@currentlabel{%
12720 \csname p@footnote\endcsname\@thefnmark}%
12721 \color@begingroup
12722 \@sixcolLTRfootfmt{#1}%
12723 \color@endgroup}%
12724 \m@{mmf@prepare}
12725 \bidi@ensure@newcommand{\@sixcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12726 \def\baselinestretch{\m@{footnote@spacing}%
12727 \reset@font\RTLfoottextfont
12728 \@preamfntext
12729 \protected@edef\@currentlabel{%
12730 \csname p@footnote\endcsname\@thefnmark}%
12731 \color@begingroup
12732 \@sixcolRTLfootfmt{#1}%
12733 \color@endgroup}%
12734 \m@{mmf@prepare}
12735 \bidi@ensure@newcommand{\@preamsixfmt}{%
12736 \hspace{.16\hspace}
12737 \parindent=\z@
12738 \tolerance=5000\relax
12739 \leavevmode}
12740 \bidi@ensure@newcommand{\@sixcolfootfmt}[1]{%
12741 \@preamsixfmt
12742 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12743 \bidi@ensure@newcommand{\@sixcolLTRfootfmt}[1]{%
12744 \@preamsixfmt
12745 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12746 \bidi@ensure@newcommand{\@sixcolRTLfootfmt}[1]{%
12747 \@preamsixfmt
12748 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12749 \bidi@ensure@newcommand{\@mpsixcolfootnotetext}[1]{%
12750 \global\setbox
12751 \if@RTL@footnote
12752 \@mpfootinsv@r
12753 \else
12754 \@mpfootinsv@l
12755 \fi
12756 \vbox{%

```



```

12757 \unvbox
12758 \if@RTL@footnote
12759 \@mpfootinsv@r
12760 \else
12761 \@mpfootinsv@l
12762 \fi
12763 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12764 \def\baselinestretch{\m@m@footnote@spacing}%
12765 \reset@font\foottextfont
12766 \hsize\columnwidth \@parboxrestore
12767 \protected@edef\@currentlabel{%
12768 \csname p@mpfootnote\endcsname\@thefnmark}%
12769 \color@begingroup
12770 \@sixcolfootfmt{#1}%
12771 \color@endgroup}%
12772 \m@m@mmf@prepare}
12773 \bidi@ensure@newcommand{\@mpsixcolLTRfootnotetext}[1]{%
12774 \global\setbox\@mpfootinsv@l\vbox{%
12775 \unvbox\@mpfootinsv@l
12776 \@RTLfalse
12777 \def\baselinestretch{\m@m@footnote@spacing}%
12778 \reset@font\LTRfoottextfont
12779 \hsize\columnwidth \@parboxrestore
12780 \protected@edef\@currentlabel{%
12781 \csname p@mpfootnote\endcsname\@thefnmark}%
12782 \color@begingroup
12783 \@sixcolLTRfootfmt{#1}%
12784 \color@endgroup}%
12785 \m@m@mmf@prepare}
12786 \bidi@ensure@newcommand{\@mpsixcolRTLfootnotetext}[1]{%
12787 \global\setbox\@mpfootinsv@r\vbox{%
12788 \unvbox\@mpfootinsv@r
12789 \@RTLtrue
12790 \def\baselinestretch{\m@m@footnote@spacing}%
12791 \reset@font\RTLfoottextfont
12792 \hsize\columnwidth \@parboxrestore
12793 \protected@edef\@currentlabel{%
12794 \csname p@mpfootnote\endcsname\@thefnmark}%
12795 \color@begingroup
12796 \@sixcolRTLfootfmt{#1}%
12797 \color@endgroup}%
12798 \m@m@mmf@prepare}
12799 \bidi@ensure@newcommand{\m@make@sixcol@footgroup}[1]{%
12800 \@namedef{\@sixcol@footgroup#1}{%
12801 \def\baselinestretch{\m@m@footnote@spacing}%
12802 \hsize\bidi@columnwidth
12803 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12804 \m@m@rigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}%
12805 \newcommand{\bidi@make@sixcol@LTRfootgroup}[1]{%
12806 \@namedef{\@sixcol@LTRfootgroup#1}{%
12807 \def\baselinestretch{\m@m@footnote@spacing}%
12808 \hsize\bidi@columnwidth
12809 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12810 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}%

```



```

12811 \bidi@ensure@newcommand{\m@make@mpsixel@footgroup}[1]{%
12812 \namedef{@mpsixel@footgroup#1}{%
12813 \def\baselinestretch{\m@footnote@spacing}%
12814 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12815 \m@rigidbalance{\@nameuse{@mpfootins#1}}{6}{\splittopskip}}}%
12816 \newcommand{\bidi@make@mpsixel@LTRfootgroup}[1]{%
12817 \namedef{@mpsixel@LTRfootgroup#1}{%
12818 \def\baselinestretch{\m@footnote@spacing}%
12819 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12820 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{6}{\splittopskip}}}%
12821 \bidi@ensure@newcommand{\sevendcolumnfootnotes}{%
12822 \namedef{foottextfontv@r}{\foottextfont}% % [RS]
12823 \namedef{foottextfontv@l}{\LTRfoottextfont}%
12824 \@bidi@before@Hy@hyperfootnotes
12825 \let\@footnotetext\@sevendcolumnfootnotetext
12826 \let\@LTRfootnotetext\@sevendcolumnLTRfootnotetext
12827 \let\@RTLfootnotetext\@sevendcolumnRTLfootnotetext
12828 \dimen\footinsv@r=7\footinsdim
12829 \count\footinsv@r=142\relax
12830 \m@make@sevendcolumn@footgroup{v@r}%
12831 \let\@footgroupv@r\@sevendcolumn@footgroupv@r
12832 \dimen\footinsv@l=7\footinsdim
12833 \count\footinsv@l=142\relax
12834 \bidi@make@sevendcolumn@LTRfootgroup{v@l}%
12835 \let\@LTRfootgroupv@l\@sevendcolumn@LTRfootgroupv@l
12836 \let\@mpfootnotetext\@mpsevendcolumnfootnotetext
12837 \let\@mpLTRfootnotetext\@mpsevendcolumnLTRfootnotetext
12838 \let\@mpRTLfootnotetext\@mpsevendcolumnRTLfootnotetext
12839 \@bidi@after@Hy@hyperfootnotes
12840 \m@make@mpsevendcolumn@footgroup{v@r}%
12841 \let\mp@footgroupv@r\@mpsevendcolumn@footgroupv@r
12842 \bidi@make@mpsevendcolumn@LTRfootgroup{v@l}%
12843 \let\mp@LTRfootgroupv@l\@mpsevendcolumn@LTRfootgroupv@l
12844 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12845 }
12846 \bidi@ensure@newcommand{\@sevendcolumnfootnotetext}[1]{\insert
12847 \if@RTL@footnote
12848 \footinsv@r
12849 \else
12850 \footinsv@l
12851 \fi
12852 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12853 \def\baselinestretch{\m@footnote@spacing}%
12854 \reset@font\foottextfont
12855 \@preamfntext
12856 \protected@edef\@currentlabel{%
12857 \csname p@footnote\endcsname\@thefnmark}%
12858 \color@begingroup
12859 \@sevendcolumnfootfmt{#1}%
12860 \color@endgroup}%
12861 \m@mmf@prepare}
12862 \bidi@ensure@newcommand{\@sevendcolumnLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12863 \def\baselinestretch{\m@footnote@spacing}%
12864 \reset@font\LTRfoottextfont

```




```

12865 \@preamfntext
12866 \protected@edef\@currentlabel{%
12867   \csname p@footnote\endcsname\@thefnmark}%
12868 \color@begingroup
12869   \@sevendcolLTRfootfmt{#1}%
12870 \color@endgroup}%
12871 \m@mmf@prepare}
12872 \bidi@ensure@newcommand{\@sevendcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12873   \def\baselinestretch{\m@m@footnote@spacing}%
12874   \reset@font\RTLfoottextfont
12875   \@preamfntext
12876   \protected@edef\@currentlabel{%
12877     \csname p@footnote\endcsname\@thefnmark}%
12878   \color@begingroup
12879     \@sevendcolRTLfootfmt{#1}%
12880   \color@endgroup}%
12881   \m@mmf@prepare}
12882 \bidi@ensure@newcommand{\@preamsevenfmt}{%
12883   \hspace{.142\hspace}
12884   \parindent=\z@
12885   \tolerance=5000\relax
12886   \leavevmode}
12887 \bidi@ensure@newcommand{\@sevendcolfootfmt}[1]{%
12888   \@preamsevenfmt
12889   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12890 \bidi@ensure@newcommand{\@sevendcolLTRfootfmt}[1]{%
12891   \@preamsevenfmt
12892   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12893 \bidi@ensure@newcommand{\@sevendcolRTLfootfmt}[1]{%
12894   \@preamsevenfmt
12895   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12896 \bidi@ensure@newcommand{\@mpsevendcolfootnotetext}[1]{%
12897   \global\setbox
12898     \if@RTL@footnote
12899     \@mpfootinsv@r
12900   \else
12901     \@mpfootinsv@l
12902   \fi
12903   \vbox{%
12904     \unvbox
12905     \if@RTL@footnote
12906     \@mpfootinsv@r
12907   \else
12908     \@mpfootinsv@l
12909   \fi
12910   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12911   \def\baselinestretch{\m@m@footnote@spacing}%
12912   \reset@font\foottextfont
12913   \hspace\columnwidth \@parboxrestore
12914   \protected@edef\@currentlabel{%
12915     \csname p@mpfootnote\endcsname\@thefnmark}%
12916   \color@begingroup
12917     \@sevendcolfootfmt{#1}%
12918   \color@endgroup}%

```



```

12919 \m@mmf@prepare}
12920 \bidi@ensure@newcommand{\@mpsevenscolLTRfootnotetext}[1]{%
12921 \global\setbox\@mpfootinsv@l\vbox{%
12922 \unvbox\@mpfootinsv@l
12923 \@RTLfalse
12924 \def\baselinestretch{\m@m@footnote@spacing}%
12925 \reset@font\LTRfoottextfont
12926 \hsize\columnwidth \@parboxrestore
12927 \protected@edef\@currentlabel{%
12928 \csname p@mpfootnote\endcsname\@thefnmark}%
12929 \color@begingroup
12930 \@sevenscolLTRfootfmt{#1}%
12931 \color@endgroup}%
12932 \m@mmf@prepare}
12933 \bidi@ensure@newcommand{\@mpsevenscolRTLfootnotetext}[1]{%
12934 \global\setbox\@mpfootinsv@r\vbox{%
12935 \unvbox\@mpfootinsv@r
12936 \@RTLtrue
12937 \def\baselinestretch{\m@m@footnote@spacing}%
12938 \reset@font\RTLfoottextfont
12939 \hsize\columnwidth \@parboxrestore
12940 \protected@edef\@currentlabel{%
12941 \csname p@mpfootnote\endcsname\@thefnmark}%
12942 \color@begingroup
12943 \@sevenscolRTLfootfmt{#1}%
12944 \color@endgroup}%
12945 \m@mmf@prepare}
12946 \bidi@ensure@newcommand{\m@make@sevenscol@footgroup}[1]{%
12947 \@namedef{\@sevenscol@footgroup#1}{%
12948 \def\baselinestretch{\m@m@footnote@spacing}%
12949 \hsize\bidi@columnwidth
12950 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12951 \m@mrigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}%
12952 \newcommand{\bidi@make@sevenscol@LTRfootgroup}[1]{%
12953 \@namedef{\@sevenscol@LTRfootgroup#1}{%
12954 \def\baselinestretch{\m@m@footnote@spacing}%
12955 \hsize\bidi@columnwidth
12956 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12957 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}%
12958 \bidi@ensure@newcommand{\m@make@mpsevenscol@footgroup}[1]{%
12959 \@namedef{\@mpsevenscol@footgroup#1}{%
12960 \def\baselinestretch{\m@m@footnote@spacing}%
12961 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12962 \m@mrigidbalance{\@nameuse{\@mpfootins#1}}{7}{\splittopskip}}}%
12963 \newcommand{\bidi@make@mpsevenscol@LTRfootgroup}[1]{%
12964 \@namedef{\@mpsevenscol@LTRfootgroup#1}{%
12965 \def\baselinestretch{\m@m@footnote@spacing}%
12966 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12967 \bidi@LTRrigidbalance{\@nameuse{\@mpfootins#1}}{7}{\splittopskip}}}%
12968 \bidi@ensure@newcommand{\eightcolumnfootnotes}{%
12969 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12970 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12971 \@bidi@before@Hy@hyperfootnotes
12972 \let\@footnotetext\@eightcolfootnotetext

```



```

12973 \let\@LTRfootnotetext\@eightcolLTRfootnotetext
12974 \let\@RTLfootnotetext\@eightcolRTLfootnotetext
12975 \dimen\footinsv@r=8\footinsdim
12976 \count\footinsv@r=125\relax
12977 \m@make@eightcol@footgroup{v@r}%
12978 \let\@footgroupv@r\@eightcol@footgroupv@r
12979 \dimen\footinsv@l=8\footinsdim
12980 \count\footinsv@l=125\relax
12981 \bidi@make@eightcol@LTRfootgroup{v@l}%
12982 \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l
12983 \let\@mpfootnotetext\@mpeightcolfootnotetext
12984 \let\@mpLTRfootnotetext\@mpeightcolLTRfootnotetext
12985 \let\@mpRTLfootnotetext\@mpeightcolRTLfootnotetext
12986 \@bidi@after@Hy@hyperfootnotes
12987 \m@make@mpeightcol@footgroup{v@r}%
12988 \let\mp@footgroupv@r\@mpeightcol@footgroupv@r
12989 \bidi@make@mpeightcol@LTRfootgroup{v@l}%
12990 \let\mp@LTRfootgroupv@l\@mpeightcol@LTRfootgroupv@l
12991 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12992 }
12993 \bidi@ensure@newcommand{\@eightcolfootnotetext}[1]{\insert
12994   \if@RTL@footnote
12995     \footinsv@r
12996   \else
12997     \footinsv@l
12998   \fi
12999 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13000 \def\baselinestretch{\m@mm@footnote@spacing}%
13001 \reset@font\foottextfont
13002 \@preamfntext
13003 \protected@edef\@currentlabel{%
13004   \csname p@footnote\endcsname\@thefnmark}%
13005 \color@begingroup
13006   \@eightcolfootfmt{#1}%
13007 \color@endgroup}%
13008 \m@mmf@prepare}
13009 \bidi@ensure@newcommand{\@eightcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13010 \def\baselinestretch{\m@mm@footnote@spacing}%
13011 \reset@font\LTRfoottextfont
13012 \@preamfntext
13013 \protected@edef\@currentlabel{%
13014   \csname p@footnote\endcsname\@thefnmark}%
13015 \color@begingroup
13016   \@eightcolLTRfootfmt{#1}%
13017 \color@endgroup}%
13018 \m@mmf@prepare}
13019 \bidi@ensure@newcommand{\@eightcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13020 \def\baselinestretch{\m@mm@footnote@spacing}%
13021 \reset@font\RTLfoottextfont
13022 \@preamfntext
13023 \protected@edef\@currentlabel{%
13024   \csname p@footnote\endcsname\@thefnmark}%
13025 \color@begingroup
13026   \@eightcolRTLfootfmt{#1}%

```



```

13027 \color@endgroup}%
13028 \m@mmf@prepare}
13029 \bidi@ensure@newcommand{\@preameightfmt}{%
13030 \hsize .125\hsize
13031 \parindent=\z@
13032 \tolerance=5000\relax
13033 \leavevmode}
13034 \bidi@ensure@newcommand{\@eightcolfootfmt}[1]{%
13035 \@preameightfmt
13036 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13037 \bidi@ensure@newcommand{\@eightcolLTRfootfmt}[1]{%
13038 \@preameightfmt
13039 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13040 \bidi@ensure@newcommand{\@eightcolRTLfootfmt}[1]{%
13041 \@preameightfmt
13042 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13043 \bidi@ensure@newcommand{\@mpeightcolfootnotetext}[1]{%
13044 \global\setbox
13045 \if@RTL@footnote
13046 \mpfootinsv@r
13047 \else
13048 \mpfootinsv@l
13049 \fi
13050 \vbox{%
13051 \unvbox
13052 \if@RTL@footnote
13053 \mpfootinsv@r
13054 \else
13055 \mpfootinsv@l
13056 \fi
13057 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13058 \def\baselinestretch{\m@m@footnote@spacing}%
13059 \reset@font\foottextfont
13060 \hsize\columnwidth \@parboxrestore
13061 \protected@edef\@currentlabel{%
13062 \csname p@mpfootnote\endcsname\@thefnmark}%
13063 \color@begingroup
13064 \@eightcolfootfmt{#1}%
13065 \color@endgroup}%
13066 \m@mmf@prepare}
13067 \bidi@ensure@newcommand{\@mpeightcolLTRfootnotetext}[1]{%
13068 \global\setbox\mpfootinsv@l\vbox{%
13069 \unvbox\mpfootinsv@l
13070 \@RTLfalse
13071 \def\baselinestretch{\m@m@footnote@spacing}%
13072 \reset@font\LTRfoottextfont
13073 \hsize\columnwidth \@parboxrestore
13074 \protected@edef\@currentlabel{%
13075 \csname p@mpfootnote\endcsname\@thefnmark}%
13076 \color@begingroup
13077 \@eightcolLTRfootfmt{#1}%
13078 \color@endgroup}%
13079 \m@mmf@prepare}
13080 \bidi@ensure@newcommand{\@mpeightcolRTLfootnotetext}[1]{%

```



```

13081 \global\setbox\@mpfootinsv@r\vbox{%
13082   \unvbox\@mpfootinsv@r
13083   \@RTLtrue
13084   \def\baselinestretch{\m@m@footnote@spacing}%
13085   \reset@font\RTLfoottextfont
13086   \hsize\columnwidth \@parboxrestore
13087   \protected@edef\@currentlabel{%
13088     \csname p@mpfootnote\endcsname\@thefnmark}%
13089   \color@begingroup
13090     \@eightcolRTLfootfmt{#1}%
13091   \color@endgroup}%
13092   \m@m@f@prepare}
13093 \bidi@ensure@newcommand{\m@make@eightcol@footgroup}[1]{%
13094   \@namedef{@eightcol@footgroup#1}{%
13095     \def\baselinestretch{\m@m@footnote@spacing}%
13096     \hsize\bidi@columnwidth
13097     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13098     \m@mrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}}
13099 \newcommand{\bidi@make@eightcol@LTRfootgroup}[1]{%
13100   \@namedef{@eightcol@LTRfootgroup#1}{%
13101     \def\baselinestretch{\m@m@footnote@spacing}%
13102     \hsize\bidi@columnwidth
13103     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13104     \bidi@LTRrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}}
13105 \bidi@ensure@newcommand{\m@make@mpeightcol@footgroup}[1]{%
13106   \@namedef{@mpeightcol@footgroup#1}{%
13107     \def\baselinestretch{\m@m@footnote@spacing}%
13108     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13109     \m@mrigidbalance{\@nameuse{mpfootins#1}}{8}{\splittopskip}}}}
13110 \newcommand{\bidi@make@mpeightcol@LTRfootgroup}[1]{%
13111   \@namedef{@mpeightcol@LTRfootgroup#1}{%
13112     \def\baselinestretch{\m@m@footnote@spacing}%
13113     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13114     \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{8}{\splittopskip}}}}
13115 \bidi@ensure@newcommand{\ninecolumnfootnotes}{%
13116   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13117   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13118   \@bidi@before@Hy@hyperfootnotes
13119   \let\@footnotetext\@ninecolfootnotetext
13120   \let\@LTRfootnotetext\@ninecolLTRfootnotetext
13121   \let\@RTLfootnotetext\@ninecolRTLfootnotetext
13122   \dimen\footinsv@r=9\footinsdim
13123   \count\footinsv@r=111\relax
13124   \m@make@ninecol@footgroup{v@r}%
13125   \let\@footgroupv@r\@ninecol@footgroupv@r
13126   \dimen\footinsv@l=9\footinsdim
13127   \count\footinsv@l=111\relax
13128   \bidi@make@ninecol@LTRfootgroup{v@l}%
13129   \let\@LTRfootgroupv@l\@ninecol@LTRfootgroupv@l
13130   \let\@mpfootnotetext\@mpninecolfootnotetext
13131   \let\@mpLTRfootnotetext\@mpninecolLTRfootnotetext
13132   \let\@mpRTLfootnotetext\@mpninecolRTLfootnotetext
13133   \@bidi@after@Hy@hyperfootnotes
13134   \m@make@mpninecol@footgroup{v@r}%

```



```

13135 \let\mp@footgroupv@r\@mpninelcol@footgroupv@r
13136 \bidi@make@mpninelcol@LTRfootgroup{v@1}%
13137 \let\mp@LTRfootgroupv@1\@mpninelcol@LTRfootgroupv@1
13138 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13139 }
13140 \bidi@ensure@newcommand{\@ninelcolfootnotetext}[1]{\insert
13141 \ifRTL@footnote
13142 \footinsv@r
13143 \else
13144 \footinsv@l
13145 \fi
13146 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13147 \def\baselinestretch{\m@m@footnote@spacing}%
13148 \reset@font\foottextfont
13149 \@preamfntext
13150 \protected@edef\@currentlabel{%
13151 \csname p@footnote\endcsname\@thefnmark}%
13152 \color@begingroup
13153 \@ninelcolfootfmt{#1}%
13154 \color@endgroup}%
13155 \m@m@mmf@prepare}
13156 \bidi@ensure@newcommand{\@ninelcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13157 \def\baselinestretch{\m@m@footnote@spacing}%
13158 \reset@font\LTRfoottextfont
13159 \@preamfntext
13160 \protected@edef\@currentlabel{%
13161 \csname p@footnote\endcsname\@thefnmark}%
13162 \color@begingroup
13163 \@ninelcolLTRfootfmt{#1}%
13164 \color@endgroup}%
13165 \m@m@mmf@prepare}
13166 \bidi@ensure@newcommand{\@ninelcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13167 \def\baselinestretch{\m@m@footnote@spacing}%
13168 \reset@font\RTLfoottextfont
13169 \@preamfntext
13170 \protected@edef\@currentlabel{%
13171 \csname p@footnote\endcsname\@thefnmark}%
13172 \color@begingroup
13173 \@ninelcolRTLfootfmt{#1}%
13174 \color@endgroup}%
13175 \m@m@mmf@prepare}
13176 \bidi@ensure@newcommand{\@preamninelmt}{%
13177 \hsize .1\hsize
13178 \parindent=\z@
13179 \tolerance=5000\relax
13180 \leavevmode}
13181 \bidi@ensure@newcommand{\@ninelcolfootfmt}[1]{%
13182 \@preamninelmt
13183 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13184 \bidi@ensure@newcommand{\@ninelcolLTRfootfmt}[1]{%
13185 \@preamninelmt
13186 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13187 \bidi@ensure@newcommand{\@ninelcolRTLfootfmt}[1]{%
13188 \@preamninelmt

```



```

13189 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13190 \bidi@ensure@newcommand{\@mpninecolfootnotetext}[1]{%
13191   \global\setbox
13192     \if@RTL@footnote
13193       \@mpfootinsv@r
13194   \else
13195     \@mpfootinsv@l
13196   \fi
13197   \vbox{%
13198     \unvbox
13199     \if@RTL@footnote
13200       \@mpfootinsv@r
13201   \else
13202     \@mpfootinsv@l
13203   \fi
13204     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13205     \def\baselinestretch{\m@m@footnote@spacing}%
13206     \reset@font\foottextfont
13207     \hsize\columnwidth \@parboxrestore
13208     \protected@edef\@currentlabel{%
13209       \csname p@mpfootnote\endcsname\@thefnmark}%
13210   \color@begingroup
13211     \@ninecolfootfmt{#1}%
13212   \color@endgroup}%
13213   \m@mmf@prepare}
13214 \bidi@ensure@newcommand{\@mpninecolLTRfootnotetext}[1]{%
13215   \global\setbox\@mpfootinsv@l\vbox{%
13216     \unvbox\@mpfootinsv@l
13217     \@RTLfalse
13218     \def\baselinestretch{\m@m@footnote@spacing}%
13219     \reset@font\LTRfoottextfont
13220     \hsize\columnwidth \@parboxrestore
13221     \protected@edef\@currentlabel{%
13222       \csname p@mpfootnote\endcsname\@thefnmark}%
13223   \color@begingroup
13224     \@ninecolLTRfootfmt{#1}%
13225   \color@endgroup}%
13226   \m@mmf@prepare}
13227 \bidi@ensure@newcommand{\@mpninecolRTLfootnotetext}[1]{%
13228   \global\setbox\@mpfootinsv@r\vbox{%
13229     \unvbox\@mpfootinsv@r
13230     \@RTLtrue
13231     \def\baselinestretch{\m@m@footnote@spacing}%
13232     \reset@font\RTLfoottextfont
13233     \hsize\columnwidth \@parboxrestore
13234     \protected@edef\@currentlabel{%
13235       \csname p@mpfootnote\endcsname\@thefnmark}%
13236   \color@begingroup
13237     \@ninecolRTLfootfmt{#1}%
13238   \color@endgroup}%
13239   \m@mmf@prepare}
13240 \bidi@ensure@newcommand{\m@make@ninecol@footgroup}[1]{%
13241   \@namedef{\@ninecol@footgroup#1}{%
13242     \def\baselinestretch{\m@m@footnote@spacing}%

```



```

13243 \hsize\bidicolumnwidth
13244 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13245 \m@mrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
13246 \newcommand{\bidi@make@necol@LTRfootgroup}[1]{%
13247 \@namedef{@necol@LTRfootgroup#1}{%
13248 \def\baselinestretch{\m@m@footnote@spacing}%
13249 \hsize\bidicolumnwidth
13250 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13251 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
13252 \bidi@ensure@newcommand{\m@make@mpnecol@footgroup}[1]{%
13253 \@namedef{@mpnecol@footgroup#1}{%
13254 \def\baselinestretch{\m@m@footnote@spacing}%
13255 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13256 \m@mrigidbalance{\@nameuse{mpfootins#1}}{9}{\splittopskip}}}}
13257 \newcommand{\bidi@make@mpnecol@LTRfootgroup}[1]{%
13258 \@namedef{@mpnecol@LTRfootgroup#1}{%
13259 \def\baselinestretch{\m@m@footnote@spacing}%
13260 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13261 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{9}{\splittopskip}}}}
13262 \bidi@ensure@newcommand{\tencolumnfootnotes}{%
13263 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13264 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13265 \@bidi@before@Hy@hyperfootnotes
13266 \let\@footnotetext\@tencolfootnotetext
13267 \let\@LTRfootnotetext\@tencolLTRfootnotetext
13268 \let\@RTLfootnotetext\@tencolRTLfootnotetext
13269 \dimen\footinsv@r=10\footinsdim
13270 \count\footinsv@r=100\relax
13271 \m@make@tencol@footgroup{v@r}%
13272 \let\@footgroupv@r\@tencol@footgroupv@r
13273 \dimen\footinsv@l=10\footinsdim
13274 \count\footinsv@l=100\relax
13275 \bidi@make@tencol@LTRfootgroup{v@l}%
13276 \let\@LTRfootgroupv@l\@tencol@LTRfootgroupv@l
13277 \let\@mpfootnotetext\@mptencolfootnotetext
13278 \let\@mpLTRfootnotetext\@mptencolLTRfootnotetext
13279 \let\@mpRTLfootnotetext\@mptencolRTLfootnotetext
13280 \@bidi@after@Hy@hyperfootnotes
13281 \m@make@mptencol@footgroup{v@r}%
13282 \let\mp@footgroupv@r\@mptencol@footgroupv@r
13283 \bidi@make@mptencol@LTRfootgroup{v@l}%
13284 \let\mp@LTRfootgroupv@l\@mptencol@LTRfootgroupv@l
13285 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13286 }
13287 \bidi@ensure@newcommand{\@tencolfootnotetext}[1]{\insert
13288 \if@RTL@footnote
13289 \footinsv@r
13290 \else
13291 \footinsv@l
13292 \fi
13293 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13294 \def\baselinestretch{\m@m@footnote@spacing}%
13295 \reset@font\foottextfont
13296 \@preamfntext

```




```

13297 \protected@edef\@currentlabel{%
13298   \csname p@footnote\endcsname\@thefnmark}%
13299 \color@begingroup
13300   \@tencolfootfmt{#1}%
13301 \color@endgroup}%
13302 \m@mmf@prepare}
13303 \bidi@ensure@newcommand{\@tencolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13304   \def\baselinestretch{\m@m@footnote@spacing}%
13305   \reset@font\LTRfoottextfont
13306   \@preamfntext
13307   \protected@edef\@currentlabel{%
13308     \csname p@footnote\endcsname\@thefnmark}%
13309   \color@begingroup
13310     \@tencolLTRfootfmt{#1}%
13311   \color@endgroup}%
13312   \m@mmf@prepare}
13313 \bidi@ensure@newcommand{\@tencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13314   \def\baselinestretch{\m@m@footnote@spacing}%
13315   \reset@font\RTLfoottextfont
13316   \@preamfntext
13317   \protected@edef\@currentlabel{%
13318     \csname p@footnote\endcsname\@thefnmark}%
13319   \color@begingroup
13320     \@tencolRTLfootfmt{#1}%
13321   \color@endgroup}%
13322   \m@mmf@prepare}
13323 \bidi@ensure@newcommand{\@preamtenfmt}{%
13324   \hsize .1\hsize
13325   \parindent=\z@
13326   \tolerance=5000\relax
13327   \leavevmode}
13328 \bidi@ensure@newcommand{\@tencolfootfmt}[1]{%
13329   \@preamtenfmt
13330   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13331 \bidi@ensure@newcommand{\@tencolLTRfootfmt}[1]{%
13332   \@preamtenfmt
13333   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13334 \bidi@ensure@newcommand{\@tencolRTLfootfmt}[1]{%
13335   \@preamtenfmt
13336   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13337 \bidi@ensure@newcommand{\@mptencolfootnotetext}[1]{%
13338   \global\setbox
13339     \if@RTL@footnote
13340     \@mpfootinsv@r
13341   \else
13342     \@mpfootinsv@l
13343   \fi
13344   \vbox{%
13345     \unvbox
13346     \if@RTL@footnote
13347     \@mpfootinsv@r
13348   \else
13349     \@mpfootinsv@l
13350   \fi

```



```

13351 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi
13352 \def\baselinestretch{\m@m@footnote@spacing}%
13353 \reset@font\foottextfont
13354 \hsize\columnwidth \@parboxrestore
13355 \protected@edef\@currentlabel{%
13356 \csname p@mpfootnote\endcsname\@thefnmark}%
13357 \color@begingroup
13358 \@tencolfootfmt{#1}%
13359 \color@endgroup}%
13360 \m@m@mmf@prepare}
13361 \bidi@ensure@newcommand{\@mptencolLTRfootnotetext}[1]{%
13362 \global\setbox\@mpfootinsv@l\vbox{%
13363 \unvbox\@mpfootinsv@l
13364 \@RTLfalse
13365 \def\baselinestretch{\m@m@footnote@spacing}%
13366 \reset@font\LTRfoottextfont
13367 \hsize\columnwidth \@parboxrestore
13368 \protected@edef\@currentlabel{%
13369 \csname p@mpfootnote\endcsname\@thefnmark}%
13370 \color@begingroup
13371 \@tencolLTRfootfmt{#1}%
13372 \color@endgroup}%
13373 \m@m@mmf@prepare}
13374 \bidi@ensure@newcommand{\@mptencolRTLfootnotetext}[1]{%
13375 \global\setbox\@mpfootinsv@r\vbox{%
13376 \unvbox\@mpfootinsv@r
13377 \@RTLtrue
13378 \def\baselinestretch{\m@m@footnote@spacing}%
13379 \reset@font\RTLfoottextfont
13380 \hsize\columnwidth \@parboxrestore
13381 \protected@edef\@currentlabel{%
13382 \csname p@mpfootnote\endcsname\@thefnmark}%
13383 \color@begingroup
13384 \@tencolRTLfootfmt{#1}%
13385 \color@endgroup}%
13386 \m@m@mmf@prepare}
13387 \bidi@ensure@newcommand{\@m@make@tencol@footgroup}[1]{%
13388 \@namedef{@tencol@footgroup#1}{%
13389 \def\baselinestretch{\m@m@footnote@spacing}%
13390 \hsize\bidi@columnwidth
13391 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13392 \m@mrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}%
13393 \newcommand{\bidi@make@tencol@LTRfootgroup}[1]{%
13394 \@namedef{@tencol@LTRfootgroup#1}{%
13395 \def\baselinestretch{\m@m@footnote@spacing}%
13396 \hsize\bidi@columnwidth
13397 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13398 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}%
13399 \bidi@ensure@newcommand{\@m@make@mptencol@footgroup}[1]{%
13400 \@namedef{@mptencol@footgroup#1}{%
13401 \def\baselinestretch{\m@m@footnote@spacing}%
13402 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13403 \m@mrigidbalance{\@nameuse{mpfootins#1}}{10}{\splittopskip}}}%
13404 \newcommand{\bidi@make@mptencol@LTRfootgroup}[1]{%

```



```

13405 \@namedef{@mptencol@LTRfootgroup#1}{%
13406 \def\baselinestretch{\m@m@footnote@spacing}%
13407 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13408 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{10}{\splittopskip}}
13409 \bidi@ensure@newcommand{\m@munvxh}[1]{%
13410 \setbox0=\vbox{\unvbox#1%
13411 \global\setbox1=\lastbox}%
13412 \unhbox1
13413 \unskip
13414 \unskip
13415 \unpenalty
13416 \hskip\m@mipn@skip}
13417 \bidi@ensure@newcommand{\m@mungebox}{%
13418 \setbox0=\hbox{\m@munvxh0}%
13419 \dp0=\z@
13420 \ht0=\footfudgefactor\wd0
13421 \box0
13422 \penalty0}
13423 \newskip\m@mipn@skip
13424 \bidi@ensure@newcommand*{\m@minterparanoteglua}[1]{%
13425 {foottextfont\global\m@mipn@skip=#1\relax}}
13426 \m@minterparanoteglua{1em plus.3em minus.3em}
13427 \bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
13428 \setbox0=\hbox{}%
13429 \loop
13430 \unpenalty
13431 \setbox2=\lastbox
13432 \ifhbox2
13433 \setbox0=\hbox{\box2\unhbox0}
13434 \repeat}
13435 \bidi@ensure@newcommand*{\m@mremovehboxes}{\setbox0=\lastbox
13436 \ifhbox0{\m@mremovehboxes}\unhbox0 \fi}
13437 \newcommand*{\AddExtraParaSkip}[1]{%
13438 \def\bidi@xparaskip{\advance@tempdima#1\relax}%
13439 }
13440 \let\bidi@xparaskip\relax
13441 \@onlypreamble\AddExtraParaSkip
13442 \@onlypreamble\bidi@xparaskip
13443 \def\bidi@startparafootskip#1{%
13444 \global\advance\skip#1\bidi@paraskip
13445 }
13446 \@onlypreamble\bidi@startparafootskip
13447 \bidi@ensure@newcommand{\paragraphfootnotes}{%
13448 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13449 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13450 \@bidi@before@Hy@hyperfootnotes
13451 \let\@footnotetext\@parafootnotetext
13452 \let\@LTRfootnotetext\@paraLTRfootnotetext
13453 \let\@RTLfootnotetext\@paraRTLfootnotetext
13454 \dimen\footinsv@r=\footinsdim
13455 \count\footinsv@r=1000\relax
13456 \let\bidi@removexfootskip\bidi@removexparafootskip
13457 \m@make@para@footgroup{v@r}%
13458 \m@make@para@footstart{v@r}%

```



```

13459 \let\@footgroupv@r\@para@footgroupv@r
13460 \let\@footstartv@r\@para@footstartv@r
13461 \dimen\footinsv@l=\footinsdim
13462 \count\footinsv@l=1000\relax
13463 \bidi@make@para@LTRfootgroup{v@l}%
13464 \m@make@para@footstart{v@l}%
13465 \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
13466 \let\@footstartv@l\@para@footstartv@l
13467 \let\@mpfootnotetext\@mpparafootnotetext
13468 \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
13469 \let\@mpRTLfootnotetext\@mpparaRTLfootnotetext
13470 \@bidi@after@Hy@hyperfootnotes
13471 \m@make@mppara@footgroup{v@r}%
13472 \bidi@make@mppara@LTRfootgroup{v@l}%
13473 \let\mp@footgroupv@r\@mppara@footgroupv@r
13474 \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
13475 \g@addto@macro\bidi@floathook{%
13476   \begingroup
13477     \foottextfont \@tempdima\normalbaselineskip
13478     \multiply \@tempdima \@cclvi
13479     \@tempdimb \columnwidth
13480     \divide \@tempdimb \@cclvi
13481     \divide \@tempdima \@tempdimb
13482     \xdef\footfudgefactor{\strip@pt\@tempdima}%
13483   \endgroup
13484 }
13485 \AtBeginDocument{%
13486   \begingroup
13487     \foottextfont
13488     \@tempdima\footnotesep
13489     \advance\@tempdima -\ht\strutbox
13490     \ifdim\@tempdima<z@ \@tempdima z@ \fi
13491     \advance\@tempdima.5\normalbaselineskip
13492     \bidi@xparaskip
13493     \xdef\bidi@paraskip{\the\@tempdima\relax}%
13494   \endgroup
13495   \bidi@startparafootskip\footinsv@r
13496   \bidi@startparafootskip\footinsv@l
13497 }
13498 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13499 }
13500 \newcommand{\normalRTLparaLTRfootnotes}{%
13501   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13502   \@bidi@before@Hy@hyperfootnotes
13503   \if@RTL@footnote
13504     \let\@footnotetext\m@mold@footnotetext
13505   \else
13506     \let\@footnotetext\@parafootnotetext
13507   \fi
13508   \let\@LTRfootnotetext\@paraLTRfootnotetext
13509   \let\@RTLfootnotetext\m@mold@RTLfootnotetext
13510   \dimen\footinsv@l=\footinsdim
13511   \count\footinsv@l=1000\relax
13512   \let\bidi@removexfootskip\bidi@removexparafootskip

```



```

13513 \bidi@make@para@LTRfootgroup{v@1}%
13514 \m@make@para@footstart{v@1}%
13515 \let\@LTRfootgroupv@1\@para@LTRfootgroupv@1
13516 \let\@footstartv@1\@para@footstartv@1
13517 \if@RTL@footnote
13518 \let\@mpfootnotetext\m@mold@mpfootnotetext
13519 \else
13520 \let\@mpfootnotetext\@mpparafootnotetext
13521 \fi
13522 \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
13523 \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
13524 \@bidi@after@Hy@hyperfootnotes
13525 \bidi@make@mppara@LTRfootgroup{v@1}%
13526 \let\mp@LTRfootgroupv@1\@mppara@LTRfootgroupv@1
13527 \g@addto@macro\bidi@floathook{%
13528 \begingroup
13529 \LTRfoottextfont \@tempdima\normalbaselineskip
13530 \multiply \@tempdima \@cclvi
13531 \@tempdimb \columnwidth
13532 \divide \@tempdimb \@cclvi
13533 \divide \@tempdima \@tempdimb
13534 \xdef\footfudgefactor{\strip@pt\@tempdima}%
13535 \endgroup
13536 }
13537 \AtBeginDocument{%
13538 \begingroup
13539 \LTRfoottextfont
13540 \@tempdima\footnotesep
13541 \advance\@tempdima -\ht\strutbox
13542 \ifdim\@tempdima<z@ \@tempdima z@ \fi
13543 \advance\@tempdima.5\normalbaselineskip
13544 \bidi@xparaskip
13545 \xdef\bidi@paraskip{\the\@tempdima\relax}%
13546 \endgroup
13547 \bidi@startparafootskip\footinsv@1
13548 }
13549 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13550 }
13551 \bidi@ensure@newcommand{\@parafootnotetext}[1]{\insert
13552 \if@RTL@footnote
13553 \footinsv@r
13554 \else
13555 \footinsv@l
13556 \fi
13557 {%
13558 \let\bidi@RTL@everypar\@empty%
13559 \def\baselinestretch{\m@m@footnote@spacing}%
13560 \reset@font\foottextfont
13561 \@preamfntext
13562 \protected@edef\@currentlabel{%
13563 \csname p@footnote\endcsname\@thefnmark}%
13564 \setbox0=\vbox{\hsize=\maxdimen
13565 \color@begingroup
13566 \noindent \@parafootfmt{#1}%

```



```

13567 \color@endgroup}%
13568 \m@mungebox}\m@mmf@prepare}
13569 \bidi@ensure@newcommand{\@paraLTRfootnotetext}[1]{\insert\footinsv@l{%
13570 \let\bidi@RTL@everypar\@empty%
13571 \def\baselinestretch{\m@m@footnote@spacing}%
13572 \reset@font\LTRfoottextfont
13573 \@preamfntext
13574 \protected@edef\@currentlabel{%
13575 \csname p@footnote\endcsname\@thefnmark}%
13576 \setbox0=\vbox{\hsize=\maxdimen
13577 \color@begingroup
13578 \noindent \@paraLTRfootfmt{#1}%
13579 \color@endgroup}%
13580 \m@mungebox}\m@mmf@prepare}
13581 \bidi@ensure@newcommand{\@paraRTLfootnotetext}[1]{\insert\footinsv@r{%
13582 \let\bidi@RTL@everypar\@empty%
13583 \def\baselinestretch{\m@m@footnote@spacing}%
13584 \reset@font\RTLfoottextfont
13585 \@preamfntext
13586 \protected@edef\@currentlabel{%
13587 \csname p@footnote\endcsname\@thefnmark}%
13588 \setbox0=\vbox{\hsize=\maxdimen
13589 \color@begingroup
13590 \noindent \@paraRTLfootfmt{#1}%
13591 \color@endgroup}%
13592 \m@mungebox}\m@mmf@prepare}
13593 \bidi@ensure@newcommand{\@parafootfmt}[1]{%
13594 \parindent=\z@
13595 \parfillskip=0pt \@plus 1fil
13596 {\footfootmark\strut {\foottextfont #1}\penalty-10}}
13597 \bidi@ensure@newcommand{\@paraLTRfootfmt}[1]{%
13598 \parindent=\z@
13599 \parfillskip=0pt \@plus 1fil
13600 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\penalty-10}}
13601 \bidi@ensure@newcommand{\@paraRTLfootfmt}[1]{%
13602 \parindent=\z@
13603 \parfillskip=0pt \@plus 1fil
13604 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\penalty-10}}
13605 \bidi@ensure@newcommand{\@mpparafootnotetext}[1]{%
13606 \global\setbox
13607 \if@RTL@footnote
13608 \@mpfootinsv@r
13609 \else
13610 \@mpfootinsv@l
13611 \fi
13612 \vbox{%
13613 \unvbox
13614 \if@RTL@footnote
13615 \@mpfootinsv@r
13616 \else
13617 \@mpfootinsv@l
13618 \fi
13619 \let\bidi@RTL@everypar\@empty
13620 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

13621 \reset@font\foottextfont
13622 \hsize\columnwidth \@parboxrestore
13623 \protected@edef\@currentlabel{%
13624 \csname p@mpfootnote\endcsname\@thefnmark}%
13625 \setbox0=\vbox{\hsize=\maxdimen
13626 \color@begingroup
13627 \noindent \@parafootfmt{#1}%
13628 \color@endgroup}%
13629 \m@mungebox}\m@mmf@prepare}
13630 \bidi@ensure@newcommand{\@mpparaLTRfootnotetext}[1]{%
13631 \global\setbox\@mpfootinsv@l\vbox{%
13632 \unvbox\@mpfootinsv@l
13633 \let\bidi@RTL@everypar\@empty
13634 \def\baselinestretch{\m@m@footnote@spacing}%
13635 \reset@font\LTRfoottextfont
13636 \hsize\columnwidth \@parboxrestore
13637 \protected@edef\@currentlabel{%
13638 \csname p@mpfootnote\endcsname\@thefnmark}%
13639 \setbox0=\vbox{\hsize=\maxdimen
13640 \color@begingroup
13641 \noindent \@paraLTRfootfmt{#1}%
13642 \color@endgroup}%
13643 \m@mungebox}\m@mmf@prepare}
13644 \bidi@ensure@newcommand{\@mpparaRTLfootnotetext}[1]{%
13645 \global\setbox\@mpfootinsv@r\vbox{%
13646 \unvbox\@mpfootinsv@r
13647 \let\bidi@RTL@everypar\@empty
13648 \def\baselinestretch{\m@m@footnote@spacing}%
13649 \reset@font\RTLfoottextfont
13650 \hsize\columnwidth \@parboxrestore
13651 \protected@edef\@currentlabel{%
13652 \csname p@mpfootnote\endcsname\@thefnmark}%
13653 \setbox0=\vbox{\hsize=\maxdimen
13654 \color@begingroup
13655 \noindent \@paraRTLfootfmt{#1}%
13656 \color@endgroup}%
13657 \m@mungebox}\m@mmf@prepare}
13658 \bidi@ensure@newcommand{\m@make@para@footgroup}[1]{%
13659 \@namedef{\@para@footgroup#1}{%
13660 \unvbox\@nameuse{footins#1}
13661 \@RTLtrue
13662 \m@mmakehboxofhboxes
13663 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13664 \hsize\bidi@columnwidth
13665 \@parboxrestore
13666 \def\baselinestretch{\m@m@footnote@spacing}%
13667 \@nameuse{foottextfont#1}%
13668 \noindent\unhbox0\par}}
13669 \bidi@ensure@newcommand{\bidi@make@para@LTRfootgroup}[1]{%
13670 \@namedef{\@para@LTRfootgroup#1}{%
13671 \unvbox\@nameuse{footins#1}
13672 \@RTLfalse
13673 \m@mmakehboxofhboxes
13674 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%

```



```

13675 \hsize\bidicolumnwidth
13676 \@parboxrestore
13677 \def\baselinestretch{\m@m@footnote@spacing}%
13678 \@nameuse{foottextfont#1}%
13679 \noindent\unhbox0\par}}
13680 \newcommand{\bidi@removexparafootskip}{%
13681 \advance\@tempskipa -\bidi@paraskip
13682 \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
13683 }
13684 \let\bidi@removexfootskip\relax
13685 \bidi@ensure@newcommand{\m@make@mppara@footgroup}[1]{%
13686 \@namedef{@mppara@footgroup#1}{%
13687 \unvbox\@nameuse{@mpfootins#1}
13688 \@RTLtrue
13689 \m@mmakehboxofhboxes
13690 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13691 \def\baselinestretch{\m@m@footnote@spacing}%
13692 \@nameuse{foottextfont#1}%
13693 \noindent\unhbox0\par}}
13694 \bidi@ensure@newcommand{\bidi@make@mppara@LTRfootgroup}[1]{%
13695 \@namedef{@mppara@LTRfootgroup#1}{%
13696 \unvbox\@nameuse{@mpfootins#1}
13697 \@RTLfalse
13698 \m@mmakehboxofhboxes
13699 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13700 \def\baselinestretch{\m@m@footnote@spacing}%
13701 \@nameuse{foottextfont#1}%
13702 \noindent\unhbox0\par}}
13703 \bidi@ensure@newcommand{\m@make@para@footstart}[1]{%
13704 \@namedef{@para@footstart#1}{%
13705 \leftskip=\z@
13706 \rightskip=\z@
13707 \parindent=\z@
13708 }%
13709 }
13710 \bidi@ensure@newcommand*{\m@m@makecolfloats}{%
13711 \xdef\@freelist{\@freelist\@midlist}%
13712 \global\let\@midlist\@empty
13713 \@combinefloats}
13714 \bidi@ensure@newcommand*{\m@m@makecoltext}{%
13715 \ifvbox\@kludgeins
13716 \@makespecialcolbox
13717 \else
13718 \setbox\@outputbox \vbox to\@colht{%
13719 \@texttop
13720 \dimen@ \dp\@outputbox
13721 \unvbox \@outputbox
13722 \vskip -\dimen@
13723 \@textbottom}%
13724 \fi}
13725 \bidi@ensure@newcommand*{\m@m@makecolintro}{%
13726 \bidi@ensure@newcommand*{\m@mopfootnote}{\setbox\@outputbox \vbox{%
13727 \boxmaxdepth\@maxdepth
13728 \tempdima\dp\@cclv

```




```

13729 \unvbox\@cclv
13730 \vskip-\@tempdima
13731 \bidi@mopfn@bottom
13732 \vskip \skip\footins
13733 \color@begingroup
13734 \normalcolor
13735 \footnoterule
13736 \unvbox \footins
13737 \color@endgroup
13738 }%
13739 }
13740 \newcommand*{\bidi@mopfootnotebf}{%
13741 \setbox\@outputbox \vbox{%
13742 \boxmaxdepth\@maxdepth
13743 \unvbox\@outputbox
13744 \bidi@mopfn@bottom
13745 \vskip\skip\footins
13746 \color@begingroup
13747 \normalcolor
13748 \footnoterule
13749 \unvbox \footins
13750 \color@endgroup
13751 }%
13752 }
13753 \gdef\mem@makecol{%
13754 \m@m@makecolintro
13755 \m@m@doextrafeet
13756 \ifvoid\footins
13757 \setbox\@outputbox \box\@cclv
13758 \else
13759 \m@mopfootnote
13760 \fi
13761 \m@m@makecolfloats
13762 \m@m@makecoltext
13763 \global \maxdepth \@maxdepth}
13764 \gdef\bidi@makecolbf{%
13765 \m@m@makecolintro
13766 \m@m@doextrafeet
13767 \setbox\@outputbox \box\@cclv
13768 \m@m@makecolfloats
13769 \ifvoid\footins
13770 \else
13771 \bidi@mopfootnotebf
13772 \fi
13773 \m@m@makecoltext
13774 \global \maxdepth \@maxdepth}
13775 \newcommand{\FeetAboveFloat}{\gdef\@makecol{\mem@makecol}}
13776 \newcommand{\FeetBelowFloat}{\gdef\@makecol{\bidi@makecolbf}}
13777 \newcommand\FeetAtBottom{\def\bidi@mopfn@bottom{\vfill\relax}}
13778 \newcommand\FeetBelowRagged{\let\bidi@mopfn@bottom\relax}
13779 \FeetAboveFloat
13780 \FeetBelowRagged
13781 \def\bidi@reinserts#1{\ifvoid#1\else
13782 \ifnum\count\@currbox>\z@

```



```

13783      \advance\@pageht \ht#1%
13784      \advance\@pageht \skip#1%
13785      \advance\@pageht \dp#1%
13786      \fi
13787      \insert#1{\unvbox#1}%
13788      \fi
13789  }
13790  \def\bid@init@multi@footins#1{%
13791      \multiply\count#1\col@number
13792      \multiply\skip#1\col@number
13793  }
13794  \def\bid@reinsert@footnotes#1{\ifvoid#1\else
13795      \insert#1{}\fi}
13796  \AtBeginDocument{%
13797      \bid@preto\@doclearpage\m@mdoextrafeet
13798      \g@addto@macro\@reinserts{%
13799          \bid@reinserts\footinsv@r
13800          \bid@reinserts\footinsv@l
13801      }
13802      \bid@floathook
13803      \g@addto@macro\@floatplacement{%
13804          \bid@ifmulticol{}\bid@floathook}%
13805      }%
13806      \if@bid@csundef{multi@column@out}{%
13807          \@onlypreamble\bid@init@multi@footins
13808          \let\bid@ifmulticol\@secondoftwo
13809      }{%
13810          \bid@preto\multi@column@out\m@mdoextrafeet
13811          \g@addto@macro\init@mult@footins{%
13812              \bid@init@multi@footins\footinsv@r
13813              \bid@init@multi@footins\footinsv@l
13814          }%
13815          \g@addto@macro\reinsert@footnotes{%
13816              \bid@reinsert@footnotes\footinsv@r
13817              \bid@reinsert@footnotes\footinsv@l
13818          }%
13819      }%
13820  }

```

87 File extreport-xetex-bidi.def

```

13821 \ProvidesFile{extreport-xetex-bidi.def}[2025/09/30 v0.4 bidi adaptations for extreport class]
13822 \renewcommand*\l@part[2]{%
13823     \ifnum \c@tocdepth >-2\relax
13824         \addpenalty{-\@highpenalty}%
13825         \addvspace{2.25em \@plus\p}%
13826         \begingroup
13827             \setlength\@tempdima{3em}%
13828             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
13829             \parfillskip -\@pnumwidth
13830             {\leavevmode
13831                 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
13832             \nobreak
13833             \global\@nobreaktrue

```



```

13834 \everypar{\global\nobreakfalse\everypar{}}%
13835 \endgroup
13836 \fi}
13837 \renewcommand*\l@chapter[2]{%
13838 \ifnum \c@tocdepth >\m@ne
13839 \addpenalty{-\@highpenalty}%
13840 \vskip 1.0em \@plus\p@
13841 \setlength\@tempdima{1.5em}%
13842 \begingroup
13843 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
13844 \parfillskip -\@pnumwidth
13845 \leavevmode \bfseries
13846 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
13847 \hskip -\if@RTL\rightskip\else\leftskip\fi
13848 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
13849 \penalty\@highpenalty
13850 \endgroup
13851 \fi}
13852 \def\@makechapterhead#1{%
13853 \vspace*{50\p@}%
13854 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
13855 \ifnum \c@secnumdepth >\m@ne
13856 \huge\bfseries \@chapapp\space \thechapter
13857 \par\nobreak
13858 \vskip 20\p@
13859 \fi
13860 \interlinepenalty\@M
13861 \Huge \bfseries #1\par\nobreak
13862 \vskip 40\p@
13863 }}
13864 \def\@makeschapterhead#1{%
13865 \vspace*{50\p@}%
13866 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
13867 \normalfont
13868 \interlinepenalty\@M
13869 \Huge \bfseries #1\par\nobreak
13870 \vskip 40\p@
13871 }}
13872 \renewcommand\left@footnoterule{%
13873 \kern-3\p@
13874 \hrule\@width.4\columnwidth
13875 \kern2.6\p@}
13876 \renewcommand\right@footnoterule{%
13877 \kern-3\p@
13878 \nointerlineskip
13879 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
13880 \kern2.6\p@}
13881 \renewenvironment{thebibliography}[1]
13882 {\chapter*{\bibname
13883 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
13884 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
13885 \bidi@thebibliography@font@hook%
13886 \list{\@biblabel{\@arabic\c@enumiv}}%
13887 {\settowidth\labelwidth{\@biblabel{#1}}%

```



```

13888         \leftmargin\labelwidth
13889         \advance\leftmargin\labelsep
13890         \@openbib@code
13891         \usecounter{enumiv}%
13892         \let\p@enumiv\@empty
13893         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
13894     \sloppy\clubpenalty4000\widowpenalty4000%
13895     \sfcode`.\@m}
13896     {\def\@noitemerr
13897       {\@latex@warning{Empty `thebibliography' environment}}}%
13898     \endlist}
13899 \if@titlepage
13900 \renewcommand\maketitle{\begin{titlepage}%
13901 \let\footnotesize\small
13902 \let\right@footnoterule\relax
13903 \let\left@footnoterule\relax
13904 \let\textwidth\footnoterule\relax
13905 \let \footnote \thanks
13906 \null\vfil
13907 \vskip 60\p@
13908 \begin{center}%
13909   {\LARGE \@title \par}%
13910   \vskip 3em%
13911   {\large
13912     \lineskip .75em%
13913     \begin{tabular}[t]{c}%
13914       \@author
13915       \end{tabular}\par}%
13916     \vskip 1.5em%
13917     {\large \@date \par}%           % Set date in \large size.
13918 \end{center}\par
13919 \@thanks
13920 \vfil\null
13921 \end{titlepage}}%
13922 \setcounter{footnote}{0}%
13923 \global\let\thanks\relax
13924 \global\let\maketitle\relax
13925 \global\let\@thanks\@empty
13926 \global\let\@author\@empty
13927 \global\let\@date\@empty
13928 \global\let\@title\@empty
13929 \global\let\title\relax
13930 \global\let\author\relax
13931 \global\let\date\relax
13932 \global\let\and\relax
13933 }
13934 \else
13935 \renewcommand\maketitle{\par
13936   \begin{group
13937     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
13938     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
13939     \long\def\@makefntext##1{\parindent 1em\noindent
13940       \hb@xt@1.8em{%
13941         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%

```



```

13942 \if@twocolumn
13943 \ifnum \col@number=\@ne
13944 \maketitle
13945 \else
13946 \twocolumn[\maketitle]%
13947 \fi
13948 \else
13949 \newpage
13950 \global\@topnum\z@ % Prevents figures from going at top of page.
13951 \maketitle
13952 \fi
13953 \thispagestyle{plain}\@thanks
13954 \endgroup
13955 \setcounter{footnote}{0}%
13956 \global\let\thanks\relax
13957 \global\let\maketitle\relax
13958 \global\let\@maketitle\relax
13959 \global\let\@thanks\@empty
13960 \global\let\@author\@empty
13961 \global\let\@date\@empty
13962 \global\let\@title\@empty
13963 \global\let\title\relax
13964 \global\let\author\relax
13965 \global\let\date\relax
13966 \global\let\and\relax
13967 }
13968 \def\maketitle{%
13969 \newpage
13970 \null
13971 \vskip 2em%
13972 \begin{center}%
13973 \let \footnote \thanks
13974 {\LARGE \@title \par}%
13975 \vskip 1.5em%
13976 {\large
13977 \lineskip .5em%
13978 \begin{tabular}[t]{c}%
13979 \@author
13980 \end{tabular}\par}%
13981 \vskip 1em%
13982 {\large \@date}%
13983 \end{center}%
13984 \par
13985 \vskip 1.5em}
13986 \fi
13987 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
13988 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\csubsection}
13989 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\csubsubsection}
13990 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\cparagraph}
13991 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\csubparagraph}
13992 \renewcommand\theequation{%
13993 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
13994 \renewcommand\thefigure{%
13995 \ifnum \c@chapter>\z@\thechapter\@SepMark\fi \@arabic\c@figure}

```



```

13996 \renewcommand\thetable{%
13997   \ifnum \c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}

```

88 File fancybox-xetex-bidi.def

```

13998 \ProvidesFile{fancybox-xetex-bidi.def}[2013/05/01 v0.1 bidi adaptations for fancybox package]
13999 \def\fancy@oval#1#2#3{%
14000   \boxmaxdepth \maxdimen
14001   \@ovttrue \ovbtrue \ovltrue \ovrtrue
14002   \@tfor\@tempa :=#3\do{\csname @ov\@tempa false\endcsname}%
14003   \@ovxx#1\relax
14004   \advance\@ovxx-\@wholewidth
14005   \@ovyy#2\relax
14006   \advance\@ovyy-\@wholewidth
14007   \@tempdimb \ifdim \@ovyy >\@ovxx \@ovxx \@ovxx\else \@ovyy \fi
14008   \advance\@tempdimb-2\p@
14009   \ifdim\@tempdimb>\the@cornersize\relax
14010     \@tempdimb=\the@cornersize
14011   \fi
14012   \@getcirc\@tempdimb
14013   \@ovro\ht\@tempboxa \ovri\dp\@tempboxa
14014   \@ovdx\@ovxx \advance\@ovdx-\@tempdima \divide\@ovdx \tw@
14015   \@ovdy\@ovyy \advance\@ovdy-\@tempdima \divide\@ovdy \tw@
14016   \@circlefnt
14017   \setbox\@tempboxa\hbox{\beginL%
14018     \if@ovr \ovvert32\kern -\@tempdima \fi
14019     \if@ovl \kern \@ovxx \ovvert01\kern -\@tempdima \kern -\@ovxx \fi
14020     \if@ovt \ovhorz \kern -\@ovxx \fi
14021     \if@ovb \raise \@ovyy \ovhorz \fi\endL}%
14022   \advance\@ovdx\@ovro
14023   \advance\@ovdy\@ovro
14024   \advance\@ovxx\@wholewidth
14025   \wd\@tempboxa=\@ovxx
14026   \dp\@tempboxa=\z@}

```

89 File fancyhdr-xetex-bidi.def

```

14027 \ProvidesFile{fancyhdr-xetex-bidi.def}[2025/09/03 v1.0 bidi adaptations for fancyhdr package]
14028
14029 \let\f@nch@everypar\everypar
14030
14031 \def\f@nch@parbox@align@hl{\def\f@nch@align@h{\bidi@raggedright}}
14032 \def\f@nch@parbox@align@hr{\def\f@nch@align@h{\bidi@raggedleft}}
14033

```

90 File fix2col-xetex-bidi.def

```

14034 \ProvidesFile{fix2col-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for fix2col package]
14035 \def\RTL@outputdblcol{%
14036   \if@firstcolumn
14037     \global\@firstcolumnfalse
14038     \global\setbox\@leftcolumn\copy\@outputbox
14039     \splitmaxdepth\maxdimen
14040     \vbadness\maxdimen

```



```

14041 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14042 \toks@\expandafter{\topmark}%
14043 \xdef\@firstcoltopmark{\the\toks@}%
14044 \toks@\expandafter{\splitfirstmark}%
14045 \xdef\@firstcolfirstmark{\the\toks@}%
14046 \ifx\@firstcolfirstmark\empty
14047 \global\let\@setmarks\relax
14048 \else
14049 \gdef\@setmarks{%
14050 \let\firstmark\@firstcolfirstmark
14051 \let\topmark\@firstcoltopmark}%
14052 \fi
14053 \else \global\@firstcolumntrue
14054 \setbox\@outputbox \vbox {\hbox to\textwidth {%
14055 \hskip \columnwidth
14056 \hfil \vrule width\columnseprule \hfil
14057 \hbox to\columnwidth {%
14058 \bidi@firstcolumn@status@write%
14059 \box\@leftcolumn \hss}%
14060 \hskip -\textwidth
14061 \hbox to\columnwidth{%
14062 \bidi@lastcolumn@status@write%
14063 \box\@outputbox \hss}%
14064 \hskip \columnsep
14065 \hskip \columnwidth }}%
14066 \@combinedblfloats \@setmarks \@outputpage
14067 \begingroup \@dblfloatplacement \@startdblcolumn
14068 \@whilesw\if@fcolmade \fi
14069 {\@outputpage \@startdblcolumn }\endgroup
14070 \fi}
14071 \def\LTR@outputdblcol{%
14072 \if@firstcolumn
14073 \global\@firstcolumnfalse
14074 \global\setbox\@leftcolumn\copy\@outputbox
14075 \splitmaxdepth\maxdimen
14076 \vbadness\maxdimen
14077 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14078 \toks@\expandafter{\topmark}%
14079 \xdef\@firstcoltopmark{\the\toks@}%
14080 \toks@\expandafter{\splitfirstmark}%
14081 \xdef\@firstcolfirstmark{\the\toks@}%
14082 \ifx\@firstcolfirstmark\empty
14083 \global\let\@setmarks\relax
14084 \else
14085 \gdef\@setmarks{%
14086 \let\firstmark\@firstcolfirstmark
14087 \let\topmark\@firstcoltopmark}%
14088 \fi
14089 \else
14090 \global\@firstcolumntrue
14091 \setbox\@outputbox\vbox{%
14092 \hb@xt@\textwidth{%
14093 \hb@xt@\columnwidth{%
14094 \bidi@firstcolumn@status@write%

```



```

14095      \box\@leftcolumn \hss}%
14096      \hfil
14097      \vrule \@width\columnseprule
14098      \hfil
14099      \hb@xt@\columnwidth{%
14100      \bidi@lastcolumn@status@write%
14101      \box\@outputbox \hss}}}%
14102 \@@combinedblfloats
14103   \setmarks
14104   \outputpage
14105   \begingroup
14106     \dblfloatplacement
14107     \startdblcolumn
14108     \@whiles\if@fcolmade \fi{\@outputpage\startdblcolumn}%
14109   \endgroup
14110 \fi}

```

91 File fleqn-xetex-bidi.def

```

14111 \ProvidesFile{fleqn-xetex-bidi.def}[2024/12/07 v0.2 bidi adaptations for fleqn tag for XeTeX]
14112 \DeclareRobustCommand\{\relax
14113     \ifmmode\@badmath
14114     \else
14115       \begin{trivlist}%
14116         \@beginparpenalty\predisplaypenalty
14117         \@endparpenalty\postdisplaypenalty
14118         \item[]\leavevmode
14119         \hb@xt@\linewidth\bgroup \beginL$\m@th\displaystyle %$
14120         \hskip\mathindent\bgroup
14121       \fi}
14122 \DeclareRobustCommand\}{\relax
14123     \ifmmode
14124       \egroup $\hfil$ $
14125     \endL\egroup
14126     \end{trivlist}%
14127     \else \@badmath
14128     \fi}
14129 \renewenvironment{equation}%
14130 {
  \@beginparpenalty\predisplaypenalty
  \@endparpenalty\postdisplaypenalty
  \refstepcounter{equation}%
  \trivlist \item[]\leavevmode
  \hb@xt@\linewidth\bgroup\beginL $\m@th$ $
  \displaystyle
  \hskip\mathindent}%
14131 {
  $\hfil$ $
  \displaywidth\linewidth\hbox{\@eqnnum}%
  \endL\egroup
  \endtrivlist}

```

92 File float-xetex-bidi.def

```

14141 \ProvidesFile{float-xetex-bidi.def}[2013/04/04 v0.2 bidi adaptations for float package for XeTeX]
14142 \renewcommand\floatc@plain[2]{\setbox\@tempboxa\hbox{\@fs@cfont #1:} #2}%

```




```

14143 \ifdim\wd\@tempboxa>\hsize {\@fs@cfont #1:} #2\par
14144 \else\hbox to\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}\fi}
14145 \def\float@newx#1[#2]{\@ifundefined{c@#1}{\newcounter{#1}[#2]%
14146 \expandafter\edef\csname the#1\endcsname{%
14147 \expandafter\noexpand\csname
14148 the#2\endcsname\@SepMark\noexpand\arabic{#1}}}%
14149 {\PackageWarning{float}{Can't redefine counter variable for #1.}}}

```

93 File floatrow-xetex-bidi.def

```

14150 \ProvidesFile{floatrow-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for floatrow package]
14151 \RequirePackage{color}
14152 \renewcommand\flnew@within[1]{\@addtoreset{FB@capttype}{#1}%
14153 \expandafter\edef\csname theFB@capttype\endcsname{%
14154 \expandafter\noexpand\csname
14155 the#1\endcsname\@SepMark\noexpand\arabic{FB@capttype}}}

```

94 File flowfram-xetex-bidi.def

```

14156 \ProvidesFile{flowfram-xetex-bidi.def}[2025/01/03 v0.6 bidi adaptations for flowfram package]
14157 \def\@outputdblcol{%
14158 \@nxtcol=\c@thisframe
14159 \c@curpg=\c@page
14160 \@g@tnextcol{\@nxtcol}%
14161 \if@ff@nwpag % next flow frame starts on new page
14162 \global\@firstcolumntrue
14163 \@setcolbox\c@thisframe
14164 \if@specialpage
14165 \global\@specialpagefalse
14166 \@nameuse{ps@\@specialstyle}\relax
14167 \fi
14168 \if@twoside
14169 \ifodd\count\z@
14170 \let\@thehead\@oddhead
14171 \let\@thefoot\@oddfoot
14172 \else
14173 \let\@thehead\@evenhead
14174 \let\@thefoot\@evenfoot
14175 \fi
14176 \else
14177 \let\@thehead\@oddhead
14178 \let\@thefoot\@oddfoot
14179 \fi
14180 \@beginindvi
14181 \@dodynamicthehead\@dodynamicthefoot
14182 \vbadness=\@M
14183 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
14184 \@combinedblfloats
14185 \@outputpage
14186 \advance\c@curpg by -\c@page\relax
14187 \whiledo{\c@curpg>0}{\advance\c@curpg by -1\relax
14188 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
14189 \@outputpage}
14190 \begingroup

```



```

14191 \@dblfloatplacement
14192 \@startdblcolumn
14193 \@whilesw \if@fcolmade \fi
14194 {\@outputpage \@startdblcolumn }\endgroup
14195 \@resetst@tics
14196 \@resetdyn@mics
14197 \else % still on same page, save contents of box255
14198 \global\@firstcolumnfalse
14199 \@setcolbox\c@thisframe
14200 \fi
14201 \global\c@thisframe=\@nxtcol
14202 \@setcol{\c@thisframe}\relax
14203 \global\@colht\vsiz
14204 }
14205 \def\@outputpage{%
14206 \begingroup
14207 \let\protect\noexpand
14208 \@resetactivechars
14209 \global\let\@if@newlist\if@newlist
14210 \global\@newlistfalse\@parboxrestore
14211 \global\let\@bidi@BeforeOutputPageShipOut\@firstofone
14212 \bidi@beforeoutputpageshipouthook
14213 \shipout\vbox{\set@typeset@protect
14214 \aftergroup
14215 \endgroup
14216 \aftergroup
14217 \set@typeset@protect
14218 \reset@font\normalsize
14219 \bidi@font\@outputpage
14220 \normalsfcodes
14221 \let\label\@gobble
14222 \let\index\@gobble
14223 \let\glossary\@gobble
14224 \baselineskip\z@skip
14225 \lineskip\z@skip
14226 \lineskiplimit\z@
14227 \vskip\topmargin\moveright\@themargin
14228 \vbox{%
14229 \global\let\@bidi@BeforeHeader\@firstofone
14230 \bidi@beforeheaderhook
14231 \vskip\headheight
14232 \vskip\headsep
14233 \global\let\@bidi@BeforeOutputBoxOutputPage\@firstofone
14234 \bidi@beforeoutputboxoutputpagehook
14235 \box\@outputbox
14236 \global\let\@bidi@AfterOutputBoxOutputPage\@firstofone
14237 \bidi@afteroutputboxoutputpagehook
14238 }}%
14239 \global\let\@bidi@AfterOutputPageShipOut\@firstofone
14240 \bidi@afteroutputpageshipouthook
14241 \global\let\if@newlist\@if@newlist
14242 \stepcounter{page}%
14243 \setcounter{displayedframe}{0}%
14244 \let\firstmark\botmark

```



```

14245 \global\let\bidid@AtEndOutputPage\@firstofone
14246 \bidid@atendoutputpagehook
14247 }
14248
14249
14250 \newcommand*\bidid@s@tfftextcol{\ifthenelse{\equal{\ff@txtcol}{}}{-}{%
14251 \expandafter\bidicolor\ff@txtcol}}
14252
14253 \newcommand{\bidid@ff@box}[3]{\@ffbackground{\vbox to#2
14254 {\hb@xt@ #1{\hss{\bidid@s@tfftextcol #3}\hss}\vss\kern\z@}}}}
14255
14256
14257 \renewcommand*\@docolbox}[1]{%
14258 \edef\ff@frametype{%
14259 \csname @ff@frametype@\romannumeral#1\endcsname}%
14260 \edef\ff@col{\csname @ff@col@\romannumeral#1\endcsname}%
14261 \edef\ff@txtcol{\csname @ff@txtcol@\romannumeral#1\endcsname}%
14262 \edef\ff@backcol{\csname @ff@backcol@\romannumeral#1\endcsname}%
14263 \@ff@setoffset{#1}%
14264 \rotateframe{\csname @ff@angle@\romannumeral#1\endcsname}{%
14265 \ifthenelse{\boolean{columnframe\romannumeral#1}}{-}{%
14266 \@ff@fbox{\csname colwidth\romannumeral#1\endcsname}%
14267 {\csname colheight\romannumeral#1\endcsname}{%
14268 \expandafter\box\csname column\romannumeral#1\endcsname}{%
14269 \csname\ff@frametype\endcsname}%
14270 }{%
14271 \bidid@ff@box{\csname colwidth\romannumeral#1\endcsname}%
14272 {\csname colheight\romannumeral#1\endcsname}{%
14273 \expandafter\box\csname column\romannumeral#1\endcsname}%
14274 }}}
14275 \IfClassLoadedT{book}{%
14276 \renewcommand\theequation
14277 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
14278 \renewcommand \thefigure
14279 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
14280 \renewcommand \thetable
14281 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
14282 \renewcommand \thechapter {\@arabic\c@chapter}
14283 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
14284 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
14285 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
14286 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
14287 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
14288 \IfClassLoadedT{report}{%
14289 \renewcommand\theequation
14290 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
14291 \renewcommand \thefigure
14292 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
14293 \renewcommand \thetable
14294 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
14295 \renewcommand \thechapter {\@arabic\c@chapter}
14296 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
14297 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
14298 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}

```



```

14299 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
14300 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}
14301 \renewcommand{\rotateframe}[2]{\if@ttb@rotate
14302 \rotatebox{#1}{\if@RTL\beginL\fi#2\if@RTL\endL\fi}%
14303 \else
14304 #2\relax
14305 \fi}

```

95 File fnpct-xetex-bidi.def

```

14306 \ProvidesFile{fnpct-xetex-bidi.def}[2025/09/12 v0.2 bidi adaptations for fnpct package for Xe
14307 \ExplSyntaxOn
14308   \@ifclassloaded{beamer}
14309   {
14310     \AdaptNote \footnote{d<>o+m} [\beamer@mpfn]
14311     {
14312       \IfNoValueTF{#1}
14313       {\IfNoValueTF{#2}{#NOTE{#3}}{#NOTE[2]{#3}}}
14314       {\IfNoValueTF{#2}{#NOTE<#1>{#3}}{#NOTE<#1>[2]{#3}}}
14315     }
14316     \AdaptNote \RTLfootnote{d<>o+m} [\beamer@mpfn]
14317     {
14318       \IfNoValueTF{#1}
14319       {\IfNoValueTF{#2}{#NOTE{#3}}{#NOTE[2]{#3}}}
14320       {\IfNoValueTF{#2}{#NOTE<#1>{#3}}{#NOTE<#1>[2]{#3}}}
14321     }
14322     \AdaptNote \LTRfootnote{d<>o+m} [\beamer@mpfn]
14323     {
14324       \IfNoValueTF{#1}
14325       {\IfNoValueTF{#2}{#NOTE{#3}}{#NOTE[2]{#3}}}
14326       {\IfNoValueTF{#2}{#NOTE<#1>{#3}}{#NOTE<#1>[2]{#3}}}
14327     }
14328   }
14329   {
14330     \AdaptNote \RTLfootnote {o+m} [\@mpfn]
14331     { \IfNoValueTF {#1} {#NOTE{#2}} {#NOTE[1]{#2}} }
14332     \AdaptNote \LTRfootnote {o+m} [\@mpfn]
14333     { \IfNoValueTF {#1} {#NOTE{#2}} {#NOTE[1]{#2}} }
14334   }
14335 \ExplSyntaxOff

```

96 File footnote-xetex-bidi.def

```

14336 \ProvidesFile{footnote-xetex-bidi.def}[2025/09/30 v1.6 bidi footnote macros for XeTeX engine
14337 \if@RTLmain\@RTL@footnotetrue\else\@RTL@footnotefalse\fi
14338 \newif\ifbidi@autofootnoterule
14339 \def\bidi@mpfootnoterule{\footnoterule}
14340 \newcounter{footdir@label}
14341 \renewcommand*{\thefootdir@label}{footdir@the\value{footdir@label}}
14342 \newcommand*{\footdir@write}{%
14343   \stepcounter{footdir@label}%
14344   \zref@labelbyprops{\thefootdir@label}{abspage}%
14345 }
14346 \newcommand*{\debugfootnotedirection}{\footdir@debugtrue}

```



```

14347 \newtoks\footdir@toks
14348 \newcommand*{\footdir@debug}[1]{%
14349   \iffootdir@debug
14350     \typeout{[footdir] #1}%
14351   \fi
14352 }
14353 %\@ifpackagelater{zref-abspage}{2012/10/27}{%
14354   \newcommand*{\footdir@LeftRightElse}{%
14355     \ltx@ifundefined{footdir@the\value{zabspage}}{%
14356       \footdir@debug{abspage \the\value{zabspage}: else}%
14357     \ltx@thirdofthree
14358   }{%
14359     \if\csname footdir@the\value{zabspage}\endcsname L%
14360       \footdir@debug{abspage \the\value{zabspage}: left}%
14361     \expandafter\ltx@firstofthree
14362   \else
14363     \footdir@debug{abspage \the\value{zabspage}: right}%
14364     \expandafter\ltx@secondofthree
14365   \fi
14366   }%
14367 }%
14368 %}{%
14369   \providecommand*{\c@zabspage}{\c@abspage}%
14370   \newcommand*{\footdir@LeftRightElse}{%
14371     \footdir@write
14372     \zifrefundefined{\thefootdir@label}{%
14373       \footdir@debug{abspage ??: else}%
14374     \ltx@thirdofthree
14375   }{%
14376     \edef\footdir@abspage{%
14377       \zref@extractdefault{\thefootdir@label}{abspage}{0}%
14378     }%
14379     \ltx@ifundefined{footdir@\footdir@abspage}{%
14380       \footdir@debug{\footdir@abspage: else}%
14381     \ltx@thirdofthree
14382   }{%
14383     \if\csname footdir@\footdir@abspage\endcsname L%
14384       \footdir@debug{\footdir@abspage: left}%
14385     \expandafter\ltx@firstofthree
14386   \else
14387     \footdir@debug{\footdir@abspage: right}%
14388     \expandafter\ltx@secondofthree
14389   \fi
14390   }%
14391 }%
14392 }%
14393 %}
14394 \newcommand*{\footdir@fntext}[1]{%
14395   \zifrefundefined{\thefootdir@label}{%
14396   }{%
14397     \edef\footdir@name{%
14398       footdir@\zref@extractdefault{\thefootdir@label}{abspage}{0}%
14399     }%
14400     \@ifundefined{\footdir@name}{%

```



```

14401     \expandafter\gdef\csname\footdir@name\endcsname{#1}%
14402     }{}%
14403   }%
14404 }
14405
14406 \newcommand*{\footdir@temp}[3]{%
14407   \@ifdefinable{#1}{%
14408     \let#1#2%
14409     \renewcommand{#2}[1]{%
14410       \footdir@write
14411       \footdir@fntext{#3}%
14412       \stepcounter{footdir@label}%
14413       \footdir@fntext{#3}%
14414       \footdir@toks{##1}%
14415       \footdir@toks\expandafter{%
14416         \the\expandafter\footdir@toks
14417         \expandafter
14418         \zref@labelbyprops\expandafter{\the\footdir@label}{abspage}%
14419       }%
14420       \expandafter#1\expandafter{\the\footdir@toks}%
14421     }%
14422   }%
14423 }
14424
14425 \def\right@footnoterule{%
14426   \kern-3\p@
14427   \nointerlineskip
14428   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
14429   \kern2.6\p@}
14430 \def\left@footnoterule{\kern-3\p@
14431   \hrule \@width .4\columnwidth \kern 2.6\p@}
14432 \def\textwidth@footnoterule{\kern-3\p@
14433   \hrule \@width \columnwidth \kern 2.6\p@}
14434 \def\leftfootnoterule{%
14435   \bidi@autofootnoterulefalse
14436   \def\footnoterule{\left@footnoterule}}
14437 \let\LRfootnoterule=\leftfootnoterule
14438 \def\rightfootnoterule{%
14439   \bidi@autofootnoterulefalse
14440   \def\footnoterule{\right@footnoterule}}
14441 \def\textwidthfootnoterule{%
14442   \bidi@autofootnoterulefalse
14443   \def\footnoterule{\textwidth@footnoterule}}
14444
14445
14446
14447 \def\auto@footnoterule{%
14448   \footdir@LeftRightElse%
14449   \left@footnoterule%
14450   \right@footnoterule%
14451   \left@footnoterule%
14452 }
14453
14454

```



```

14455
14456 \def\autofootnoterule{%
14457 \bidi@autofootnoteruletrue%
14458 \def\footnoterule{\auto@footnoterule}%
14459 }
14460
14461 \newcommand*{\SplitFootnoteRule}{%
14462 \gdef\split@prev{0}
14463 \let\pagefootnoterule\footnoterule
14464 \let\mpfootnoterule\footnoterule
14465 \def\splitfootnoterule{\kern-3\p@ \hrule \kern2.6\p@}
14466 \def\footnoterule{\relax
14467 \ifx \@listdepth\@mplistdepth
14468 \mpfootnoterule
14469 \else
14470 \ifnum\split@prev=\z@
14471 \pagefootnoterule
14472 \else
14473 \splitfootnoterule
14474 \fi
14475 \xdef\split@prev{\the\insertpenalties}%
14476 \fi
14477 }%
14478 }
14479
14480
14481
14482
14483 \def\RTLfootnote{\@ifnextchar[\@xRTLfootnote{\stepcounter\@mpfn
14484 \protected@xdef\@thefnmark{\thempfn}%
14485 \@footnotemark\@RTLfootnotetext}}
14486 \def\@xRTLfootnote[#1]{%
14487 \begingroup
14488 \csname c@\@mpfn\endcsname #1\relax
14489 \unrestored@protected@xdef\@thefnmark{\thempfn}%
14490 \endgroup
14491 \@footnotemark\@RTLfootnotetext}
14492 \def\LTRfootnote{\@ifnextchar[\@xLTRfootnote{\stepcounter\@mpfn
14493 \protected@xdef\@thefnmark{\thempfn}%
14494 \@footnotemark\@LTRfootnotetext}}
14495 \def\@xLTRfootnote[#1]{%
14496 \begingroup
14497 \csname c@\@mpfn\endcsname #1\relax
14498 \unrestored@protected@xdef\@thefnmark{\thempfn}%
14499 \endgroup
14500 \@footnotemark\@LTRfootnotetext}
14501
14502
14503 \def\setfootnoteRL{\@RTL@footnotetrue}
14504 \def\unsetfootnoteRL{\@RTL@footnotefalse}
14505 \def\setfootnoteLR{\unsetfootnoteRL}
14506
14507 \newcommand*{\bidi@footnotetext@font}{\footnotesize}
14508 \newcommand*{\bidi@LTRfootnotetext@font}{\footnotesize}

```



```

14509 \newcommand*{\bidi@RTLfootnotetext@font}{\footnotesize}
14510
14511 \long\def\@footnotetext#1{\insert\footins{%
14512   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14513   \reset@font%
14514   \bidi@@footnotetext@font% \reset@font\footnotesize
14515   \interlinepenalty\interfootnotelinepenalty
14516   \splittopskip\footnotesep
14517   \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
14518   \hsize\columnwidth \@parboxrestore
14519   \protected@edef\@currentlabel{%
14520     \csname p@footnote\endcsname\@thefnmark
14521   }%
14522   \color@begingroup
14523     \@makefntext{%
14524       \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14525     \color@endgroup}}}%
14526
14527
14528 \long\def\@RTLfootnotetext#1{\insert\footins{%
14529   \@RTLtrue%
14530   \reset@font%
14531   \bidi@@RTLfootnotetext@font% \reset@font\footnotesize
14532   \interlinepenalty\interfootnotelinepenalty
14533   \splittopskip\footnotesep
14534   \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
14535   \hsize\columnwidth \@parboxrestore
14536   \protected@edef\@currentlabel{%
14537     \csname p@footnote\endcsname\@thefnmark
14538   }%
14539   \color@begingroup
14540     \@makefntext{%
14541       \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14542     \color@endgroup}}}%
14543
14544 \long\def\@LTRfootnotetext#1{\insert\footins{%
14545   \@RTLfalse%
14546   \reset@font%
14547   \bidi@@LTRfootnotetext@font% \reset@font\footnotesize
14548   \interlinepenalty\interfootnotelinepenalty
14549   \splittopskip\footnotesep
14550   \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
14551   \hsize\columnwidth \@parboxrestore
14552   \protected@edef\@currentlabel{%
14553     \csname p@footnote\endcsname\@thefnmark
14554   }%
14555   \color@begingroup
14556     \@makefntext{%
14557       \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14558     \color@endgroup}}}%
14559
14560 \AtBeginDocument{%
14561 \if@RTL@footnote
14562   \newcommand*{\bidi@footdir@footnote}{R}

```




```

14563 \else
14564   \newcommand*{\bidi@footdir@footnote}{L}
14565 \fi%
14566 }
14567
14568 \footdir@temp\footdir@ORG@bidi@footnotetext\@footnotetext{\bidi@footdir@footnote}%
14569 \footdir@temp\footdir@ORG@bidi@RTLfootnotetext\@RTLfootnotetext{R}%
14570 \footdir@temp\footdir@ORG@bidi@LTRfootnotetext\@LTRfootnotetext{L}%
14571
14572 \long\def\@mpRTLfootnotetext#1{%
14573   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@footnoterule%
14574   \global\setbox\@mpfootins\vbox{%
14575     \unvbox\@mpfootins
14576     \RTLtrue
14577     \reset@font%
14578     \bidi@RTLfootnotetext@font% \reset@font\footnotesize
14579     \hsize\columnwidth
14580     \@parboxrestore
14581     \protected@edef\@currentlabel
14582       {\csname p@mpfootnote\endcsname\@thefnmark}%
14583     \color@begingroup
14584     \@makefntext{%
14585       \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14586     \color@endgroup}}
14587 \long\def\@mpLTRfootnotetext#1{%
14588   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footnoterule%
14589   \global\setbox\@mpfootins\vbox{%
14590     \unvbox\@mpfootins
14591     \RTLfalse
14592     \reset@font%
14593     \bidi@LTRfootnotetext@font% \reset@font\footnotesize
14594     \hsize\columnwidth
14595     \@parboxrestore
14596     \protected@edef\@currentlabel
14597       {\csname p@mpfootnote\endcsname\@thefnmark}%
14598     \color@begingroup
14599     \@makefntext{%
14600       \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14601     \color@endgroup}}
14602 \long\def\@mpfootnotetext#1{%
14603   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\ifRTL@footnote\global\let\bidi@mpfootnoterule\right@footnoterule%
14604   \global\setbox\@mpfootins\vbox{%
14605     \unvbox\@mpfootins
14606     \ifRTL@footnote\RTLtrue\else\RTLfalse\fi
14607     \reset@font%
14608     \bidi@footnotetext@font% \reset@font\footnotesize
14609     \hsize\columnwidth
14610     \@parboxrestore
14611     \protected@edef\@currentlabel
14612       {\csname p@mpfootnote\endcsname\@thefnmark}%
14613     \color@begingroup
14614     \@makefntext{%
14615       \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14616     \color@endgroup}}

```



```

14617 \def\@iiiminipage#1#2[#3]#4{%
14618   \leavevmode
14619   \@pboxswfalse
14620   \if@hboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
14621   \ifRTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi
14622   \setlength\@tempdima{#4}%
14623   \def\@mpargs{#{1}#{2}#{3}#{4}}%
14624   \setbox\@tempboxa\vbox\bgroup
14625     \color@begingroup
14626     \hsize\@tempdima
14627     \textwidth\hsize \columnwidth\hsize
14628     \@parboxrestore
14629     \def\@mpfn{mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
14630     \let\@footnotetext\@mpfootnotetext
14631     \let\@LTRfootnotetext\@mpLTRfootnotetext
14632     \let\@RTLfootnotetext\@mpRTLfootnotetext
14633     \let\@listdepth\@mplistdepth \@mplistdepth\z@
14634     \@minipagerestore
14635     \@setminipage}
14636 \def\endminipage{%
14637   \par
14638   \unskip
14639   \ifvoid\@mpfootins\else
14640     \vskip\skip\@mpfootins
14641     \normalcolor
14642     \bidi@mpfootnoterule
14643     \unvbox\@mpfootins
14644   \fi
14645   \@minipagefalse %% added 24 May 89
14646   \color@endgroup
14647   \egroup
14648   \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
14649 \def\LTRthanks#1{\footnotemark
14650   \protected@xdef\@thanks{\@thanks
14651     \protect\LTRfootnotetext[\the\c@footnote]{#1}}%
14652 }
14653 \def\LTRfootnotetext{%
14654   \@ifnextchar [\@xLTRfootnotenext
14655     {\protected@xdef\@thefnmark{\thempfn}%
14656     \@LTRfootnotetext}}
14657 \def\@xLTRfootnotenext[#1]{%
14658   \begingroup
14659     \csname c@\@mpfn\endcsname #1\relax
14660     \unrestored@protected@xdef\@thefnmark{\thempfn}%
14661   \endgroup
14662   \@LTRfootnotetext}
14663 \def\RTLthanks#1{\footnotemark
14664   \protected@xdef\@thanks{\@thanks
14665     \protect\RTLfootnotetext[\the\c@footnote]{#1}}%
14666 }
14667 \let\@thanks\@empty
14668 \def\RTLfootnotetext{%
14669   \@ifnextchar [\@xRTLfootnotenext
14670     {\protected@xdef\@thefnmark{\thempfn}%

```



```

14671 \RTLfootnotetext}}
14672 \def\@xRTLfootnotenext[#1]{%
14673 \begingroup
14674 \csname c@\mpfn\endcsname #1\relax
14675 \unrestored@protected@xdef\@thefnmark{\thempfn}%
14676 \endgroup
14677 \RTLfootnotetext}
14678 \leftfootnoterule

```

97 File footnotebackref-xetex-bidi.def

```

14679 \ProvidesFile{footnotebackref-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for footnote]
14680 \LetLtxMacro{\BHFN@OldLTRFootnote}{\LTRfootnote}
14681 \LetLtxMacro{\BHFN@OldRTLFootnote}{\RTLfootnote}
14682
14683 \renewcommand*\LTRfootnote{%
14684 \refstepcounter{BackrefHyperFootnoteCounter}%
14685 \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
14686 \label{\BackrefFootnoteTag}%
14687 \@ifnextchar[\Backref@OptLTRHyperFootnote\Backref@HyperLTRFootnote}
14688
14689 \renewcommand*\RTLfootnote{%
14690 \refstepcounter{BackrefHyperFootnoteCounter}%
14691 \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
14692 \label{\BackrefFootnoteTag}%
14693 \@ifnextchar[\Backref@OptRTLHyperFootnote\Backref@HyperRTLFootnote}
14694 \newcommand\Backref@HyperLTRFootnote[1]{%
14695 \BHFN@OldLTRFootnote{\Backref@HyperSymbol#1}}
14696
14697 \newcommand\Backref@HyperRTLFootnote[1]{%
14698 \BHFN@OldRTLFootnote{\Backref@HyperSymbol#1}}
14699
14700 \newcommand\Backref@OptHyperLTRFootnote[2][\empty]{%
14701 \BHFN@OldLTRFootnote[#1]{\Backref@HyperSymbol#2}}
14702
14703 \newcommand\Backref@OptHyperRTLFootnote[2][\empty]{%
14704 \BHFN@OldRTLFootnote[#1]{\Backref@HyperSymbol#2}}
14705
14706 \bidi@AfterFile{extrafootnotefeatures-xetex-bidi.def}{%
14707 \ifFootnoteBackref@numberlinked
14708 \renewcommand{\footfootmark}{%
14709 \ifdim\footmarkwidth < \z@
14710 \llap{\hb@xt@ -\footmarkwidth{%
14711 \hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14712 \hspace*{-\footmarkwidth}}}%
14713 \else
14714 \ifdim\footmarkwidth = \z@
14715 {\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14716 \else
14717 \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}
14718 \fi
14719 \fi}
14720 \renewcommand{\LTRfootfootmark}{%
14721 \ifdim\footmarkwidth < \z@

```



```

14722 \llap{\hb@xt@ -\footmarkwidth{%
14723 \hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14724 \hspace*{-\footmarkwidth}}%
14725 \else
14726 \ifdim\footmarkwidth = \z@
14727 {\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14728 \else
14729 \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14730 \fi
14731 \fi}
14732 \renewcommand{\RTLfootfootmark}{%
14733 \ifdim\footmarkwidth < \z@
14734 \llap{\hb@xt@ -\footmarkwidth{%
14735 \hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14736 \hspace*{-\footmarkwidth}}%
14737 \else
14738 \ifdim\footmarkwidth = \z@
14739 {\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14740 \else
14741 \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14742 \fi
14743 \fi}
14744 \fi
14745 }

```

98 File framed-xetex-bidi.def

```

14746 \ProvidesFile{framed-xetex-bidi.def}[2012/06/05 v0.3 bidi adaptations for framed package for
14747 \renewcommand\TitleBarFrame[3][\begingroup
14748 \ifx\delimiter#1\delimiter
14749 \let\TF@conlab\@empty
14750 \else
14751 \def\TF@conlab{% continuation label
14752 \nointerlineskip
14753 \smash{\rlap{\kern\wd\@tempboxa\kern\fboxrule\kern\fboxsep #1}}}%
14754 \fi
14755 %\let\TF@savecolor\current@color
14756 \textcolor{TFFrameColor}{%
14757 \CustomFBox
14758 {\TF@Title{#2}}{\TF@conlab}%
14759 \fboxrule\fboxrule\fboxrule\fboxrule
14760 %{\let\current@color\TF@savecolor\set@color #3}%
14761 {\normalcolor #3}%
14762 }\endgroup
14763 }
14764 \renewenvironment{titled-frame}[1]{%
14765 \def\FrameCommand{\fboxsep8pt\fboxrule2pt
14766 \TitleBarFrame{\textbf{#1}}}%
14767 \def\FirstFrameCommand{\fboxsep8pt\fboxrule2pt
14768 \TitleBarFrame[\if@RTL\blacktriangleleft\else\blacktriangleright\fi$]{\textbf{#1}}}%
14769 \def\MidFrameCommand{\fboxsep8pt\fboxrule2pt
14770 \TitleBarFrame[\if@RTL\blacktriangleleft\else\blacktriangleright\fi$]{\textbf{#1\ (con
14771 \def\LastFrameCommand{\fboxsep8pt\fboxrule2pt
14772 \TitleBarFrame{\textbf{#1\ (cont)}}}%

```



```

14773 \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
14774 % note: 8 + 2 + 8 + 2 = 20. Don't use \width because the frame title
14775 % could interfere with the width measurement.
14776 {\endMakeFramed}
14777 \chardef\FrameRestore=\catcode`\| % for debug
14778 \catcode`\|=\catcode`\% % (debug: insert space after backslash)
14779 \def\fb@put@frame#1#2{\relax
14780 \ifdim\pagegoal=\maxdimen \pagegoal\vsizerelax
14781 | \message{===== Entering putframe =====^J
14782 | \pagegoal=\the\pagegoal, \pagetotal=\the\pagetotal.}%
14783 \ifinner
14784 \fb@putboxa#1%
14785 \fb@afterframe
14786 \else
14787 \dimen@=\pagegoal \advance\dimen@-\pagetotal % natural space left on page
14788 \ifdim\dimen@<2\baselineskip % Too little room on page
14789 | \message{Page has only \the\dimen@space room left; eject.}%
14790 \eject \fb@adjheight \fb@put@frame#1#2%
14791 \else % there's appreciable room left on the page
14792 \fb@sizeofframe#1%
14793 | \message{\string\pagetotal=\the\pagetotal,
14794 | \string\pagegoal=\the\pagegoal,
14795 | \string\pagestretch=\the\pagestretch,
14796 | \string\pageshrink=\the\pageshrink,
14797 | \string\fb@frh=\the\fb@frh. \space}
14798 | \message{^^JBox of size \the\ht@tempboxa\space}%
14799 \begingroup % temporarily set \dimen@ to be...
14800 \advance\dimen@.8\pageshrink % maximum space available on page
14801 \advance\dimen@-\fb@frh\relax % max space available for frame's contents
14802 %%% LOOKS SUBTRACTED AND ADDED, SO DOUBLE ACCOUNTING!
14803 \expandafter\endgroup
14804 % expand \ifdim, then restore \dimen@ to real room left on page
14805 \ifdim\dimen@>\ht@tempboxa % whole box does fit
14806 | \message{fits in \the\dimen@.}%
14807 % ToDo: Change this to use vsplit anyway to capture the marks
14808 % MERGE THIS WITH THE else CLAUSE!!!
14809 \fb@putboxa#1%
14810 \fb@afterframe
14811 \else % box must be split
14812 | \message{must be split to fit in \the\dimen@.}%
14813 % update frame measurement to use \FirstFrameCommand or \MidFrameCommand
14814 \fb@sizeofframe#2%
14815 \setbox\@tempboxa\vbox{% simulate frame and flexibility of the page:
14816 \vskip \fb@frh \@plus\pagestretch \@minus.8\pageshrink
14817 \kern137sp\kern-137sp\penalty-30
14818 \unvbox\@tempboxa}%
14819 \edef\fb@resto@set{\boxmaxdepth\the\boxmaxdepth
14820 \splittopskip\the\splittopskip}%
14821 \boxmaxdepth\z@ \splittopskip\z@
14822 | \message{^^JBox of size \the\ht@tempboxa\space split to \the\dimen@}%
14823 % Split box here
14824 \setbox\tw@\vsplit\@tempboxa to\dimen@
14825 | \toks99\expandafter{\splitfirstmark}%
14826 | \toks98\expandafter{\splitbotmark}%

```



```

14827 | \message{Marks are: \the\toks99, \the\toks98. }%
14828 | \setbox\tw@\vbox{\unvbox\tw@}% natural-sized
14829 | \message{Natural height of split box is \the\ht\tw@, leaving
14830 | \the\ht\@tempboxa\space remainder. }%
14831 | % If the split-to size > (\vsize-\topskip), then set box to full size.
14832 | \begingroup
14833 | \advance\dimen@\topskip
14834 | \expandafter\endgroup
14835 | \ifdim\dimen@>\pagegoal
14836 | \message{Frame is big -- Use up the full column. }%
14837 | \dimen@ii\pagegoal
14838 | \advance\dimen@ii -\topskip
14839 | \advance\dimen@ii \FrameHeightAdjust\relax
14840 | \else % suspect this is implemented incorrectly:
14841 | % If the split-to size > feasible room_on_page, rebox it smaller.
14842 | \advance\dimen@.8\pageshrink
14843 | \ifdim\ht\tw@>\dimen@
14844 | \message{Box too tall; rebox it to \the\dimen@. }%
14845 | \dimen@ii\dimen@
14846 | \else % use natural size
14847 | \dimen@ii\ht\tw@
14848 | \fi
14849 | \fi
14850 | % Re-box contents to desired size \dimen@ii
14851 | \advance\dimen@ii -\fb@frh
14852 | \setbox\tw@\vbox to\dimen@ii \bgroup
14853 | % remove simulated frame and page flexibility:
14854 | \vskip -\fb@frh \@plus-\pagestretch \@minus-.8\pageshrink
14855 | \unvbox\tw@ \unpenalty\unpenalty
14856 | \ifdim\lastkern=-137sp % whole box went to next page
14857 | \message{box split at beginning! }%
14858 | % need work here???
14859 | \egroup \fb@resto@set \eject % (\vskip for frame size was discarded)
14860 | \fb@adjheight
14861 | \fb@put@frame#1#2% INSERTED ???
14862 | \else % Got material split off at the head
14863 | \egroup \fb@resto@set
14864 | \ifvoid\@tempboxa % it all fit after all
14865 | \message{box split at end! }%
14866 | \setbox\@tempboxa\box\tw@
14867 | \fb@putboxa#1%
14868 | \fb@afterframe
14869 | \else % it really did split
14870 | \message{box split as expected. Its reboxed height is \the\ht\tw@. }%
14871 | \ifdim\wd\tw@>\z@
14872 | \wd\tw@\wd\@tempboxa
14873 | \centerline{#2{\hboxL{\box\tw@}}}% ??? \centerline bad idea
14874 | \else
14875 | \message{Zero width means likely blank. Don't frame it (guess)}%
14876 | \box\tw@
14877 | \fi
14878 | \hrule \@height\z@ \@width\hsize
14879 | \eject
14880 | \fb@adjheight

```



```

14881          \fb@put@frame\LastFrameCommand\MidFrameCommand
14882 \fi\fi\fi\fi\fi
14883 }
14884 \def\fb@putboxa#1{%
14885   \ifvoid\@tempboxa
14886     \PackageWarning{framed}{Boxa is void -- discard it. }%
14887   \else
14888     \message{Frame and place boxa. }%
14889     %{\showoutput\showbox\@tempboxa}%
14890     \centerline{#1{\hboxL{\box\@tempboxa}}}%
14891   \fi
14892 }
14893 \catcode`\|=\FrameRestore
14894 \def\FrameRestore{%
14895   \let\if@nobreak\iffalse
14896   \let\if@noskipsec\iffalse
14897   \let\-\@dischph
14898   \let'\@acci\let'\@accii\let\=\@acciii
14899   % \message{FrameRestore:
14900   %   \@totalleftmargin=\the \@totalleftmargin,
14901   %   \rightmargin=\the\rightmargin,
14902   %   \@listdepth=\the\@listdepth. }%
14903   % Test if we are in a list (or list-like paragraph)
14904   \ifnum \ifdim\@totalleftmargin>\z@ 1\fi
14905     \ifdim\rightmargin>\z@ 1\fi
14906     \ifnum\@listdepth>\z@ 1\fi 0>\z@
14907     % \message{In a list: \linewidth=\the\linewidth, \@totalleftmargin=\the\@totalleftmargin,
14908     %   \parshape=\the\parshape, \columnwidth=\the\columnwidth, \hsize=\the\hsize,
14909     %   \labelwidth=\the\labelwidth. }%
14910     \@setminipage % snug fit around the item
14911     % Now try to propagate changes of width from \hsize to list parameters.
14912     % This is deficient, but a more advanced way to indicate modification to text
14913     % dimensions is not (yet) provided; in particular, no separate left/right
14914     % adjustment.
14915     \advance\linewidth-\columnwidth \advance\linewidth\hsize
14916     \parshape\@ne \@totalleftmargin \linewidth
14917   \else % Not in list
14918     \linewidth=\hsize
14919     %\message{No list, set \string\linewidth=\the\hsize. }%
14920   \fi
14921   \sloppy
14922 }

```

99 File ftnright-xetex-bidi.def

```

14923 \ProvidesFile{ftnright-xetex-bidi.def}[2018/09/29 v0.6 bidi adaptations for ftnright package]
14924
14925 \def\prepare@bidi@copyins{%
14926   \global\@bidi@rcol@copyinsskip\skip\@bidi@copyins@
14927   \global\skip\@bidi@copyins@\z@
14928   \global\count\@bidi@copyins@\z@
14929   \global\dimen\@bidi@copyins@\textheight}
14930
14931 \newskip\@bidi@rcol@copyinsskip

```



```

14932
14933 \def\LTR@outputdblcol{%
14934   \if@firstcolumn
14935     \global\@firstcolumnfalse
14936     \global\setbox\@leftcolumn\copy\@outputbox
14937     \global\count\footins\@m
14938     \global\skip\footins\rcol@footinsskip
14939     \global\count\@bidi@copyins\@m
14940     \global\skip\@bidi@copyins\@bidi@rcol@copyinsskip
14941     \splitmaxdepth\maxdimen
14942     \vbadness\maxdimen
14943     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
14944     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14945     \toks@\expandafter{\topmark}%
14946     \xdef\@firstcoltopmark{\the\toks@}%
14947     \toks@\expandafter{\splitfirstmark}%
14948     \xdef\@firstcolfirstmark{\the\toks@}%
14949     \ifx\@firstcolfirstmark\@empty
14950       \global\let\@setmarks\relax
14951     \else
14952       \gdef\@setmarks{%
14953         \let\firstmark\@firstcolfirstmark
14954         \let\topmark\@firstcoltopmark}%
14955     \fi
14956   \else
14957     \preparefootins
14958     \prepare@bidi@copyins
14959     \global\@firstcolumntrue
14960     \setbox\@outputbox\vbox{%
14961       \hb@xt@\textwidth{%
14962         \hb@xt@\columnwidth{%
14963           \bidi@firstcolumn@status@write%
14964           \box\@leftcolumn \hss}%
14965         \hfil
14966         {\normalcolor\vrule \@width\columnseprule}%
14967         \hfil
14968         \hb@xt@\columnwidth{%
14969           \bidi@lastcolumn@status@write%
14970           \box\@outputbox \hss}}}%
14971   \@combinedblfloats
14972   \@setmarks
14973   \@outputpage
14974   \begingroup
14975     \@dblfloatplacement
14976     \@startdblcolumn
14977     \@whilesw@if@fcolmade \fi{\@outputpage
14978       \@startdblcolumn}%
14979   \endgroup
14980 \fi}%
14981
14982 \def\RTL@outputdblcol{%
14983   \if@firstcolumn
14984     \global\@firstcolumnfalse
14985     \global\setbox\@leftcolumn\copy\@outputbox

```




```

14986 \global\count\footins\@m
14987 \global\skip\footins\rcol@footinsskip
14988 \global\count\@bidi@copyins\@m
14989 \global\skip\@bidi@copyins\@bidi@rcol@copyinsskip
14990 \splitmaxdepth\maxdimen
14991 \vbadness\maxdimen
14992 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
14993 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14994 \toks@\expandafter{\topmark}%
14995 \xdef\@firstcoltopmark{\the\toks@}%
14996 \toks@\expandafter{\splitfirstmark}%
14997 \xdef\@firstcolfirstmark{\the\toks@}%
14998 \ifx\@firstcolfirstmark\@empty
14999 \global\let\@setmarks\relax
15000 \else
15001 \gdef\@setmarks{%
15002 \let\firstmark\@firstcolfirstmark
15003 \let\topmark\@firstcoltopmark}%
15004 \fi
15005 \else
15006 \preparefootins
15007 \prepare@bidi@copyins
15008 \global\@firstcolumntrue
15009 \setbox\@outputbox\vbox{%
15010 \hb@xt@\textwidth{%
15011 \hskip \columnwidth
15012 \hfil
15013 {\normalcolor\vrule \@width\columnseprule}%
15014 \hfil
15015 \hb@xt@\columnwidth{%
15016 \bidi@firstcolumn@status@write%
15017 \box\@leftcolumn \hss}%
15018 \hskip -\textwidth
15019 \hb@xt@\columnwidth{%
15020 \bidi@lastcolumn@status@write%
15021 \box\@outputbox \hss}%
15022 \hskip \columnsep
15023 \hskip \columnwidth }}%
15024 \@combinedblfloats
15025 \@setmarks
15026 \@outputpage
15027 \begingroup
15028 \@dblfloatplacement
15029 \@startdblcolumn
15030 \@whiles\if@fcolmade \fi{\@outputpage
15031 \@startdblcolumn}%
15032 \endgroup
15033 \fi}%
15034
15035 \def\@startcolumn{%
15036 \ifx\@deferlist\@empty
15037 \global\@fcolmadefalse
15038 \global\@colroom\@colht
15039 \else

```



```

15040 \ifvoid\footins\else
15041 \ftn@amount\ht\footins
15042 \advance\ftn@amount\dp\footins
15043 \advance\ftn@amount\skip\footins
15044 \fi
15045 \ifvoid\@bidi@copyins@\else
15046 \bidi@copyins@amount\ht\@bidi@copyins@
15047 \advance\bidi@copyins@amount\dp\@bidi@copyins@
15048 \advance\bidi@copyins@amount\skip\@bidi@copyins@
15049 \fi
15050 \global\advance\@colht-\ftn@amount
15051 \global\advance\@colht-\bidi@copyins@amount
15052 \global\@colroom\@colht
15053 \@xstartcol
15054 \global\advance\@colht\ftn@amount
15055 \global\advance\@colroom\ftn@amount
15056 \global\advance\@colht\bidi@copyins@amount
15057 \global\advance\@colroom\bidi@copyins@amount
15058 \fi
15059 \if@fcolmade
15060 \setbox\@cclv\box\@outputbox
15061 \@makecol
15062 \else
15063 \ifvoid\footins\else
15064 \insert\footins{\unvbox\footins}\fi
15065 \ifvoid\@bidi@copyins@\else
15066 \insert\@bidi@copyins@\unvbox\@bidi@copyins@\fi
15067 \fi}
15068
15069 \newdimen\bidi@copyins@amount
15070
15071 \def\@makecol{\if@firstcolumn
15072 \setbox\@outputbox\box\@cclv
15073 \if@twocolumn \else
15074 \ifvoid\footins \else
15075 \@latexerr{ftnright package
15076 used in one-column mode}%
15077 {The ftnright package was designed to
15078 work with LaTeX's standard^^Jtwocolumn
15079 option. It does *not* work with the
15080 multicol package.^^JSo please specify
15081 `twocolumn' in the
15082 \noexpand\documentclass command.}%
15083 \shipout\box\footins \fi
15084 \ifvoid\@bidi@copyins@ \else
15085 \@latexerr{ftnright package
15086 used in one-column mode}%
15087 {The ftnright package was designed to
15088 work with LaTeX's standard^^Jtwocolumn
15089 option. It does *not* work with the
15090 multicol package.^^JSo please specify
15091 `twocolumn' in the
15092 \noexpand\documentclass command.}%
15093 \shipout\box\@bidi@copyins@ \fi\fi

```



```

15094 \ifnum\insertpenalties>\z@
15095   \@latexerr{ftnright package
15096     scrambled footnotes}%
15097   {There is too much footnote material in
15098     the first column and ftnright^^Jis
15099     unable to cope with this.^^JYou need
15100     to reduce the amount to get a properly
15101     formatted page.}%
15102 \fi
15103 \else
15104 \ifvoid\footins
15105   \ifvoid\@bidi@copyins@
15106     \setbox\@outputbox\box\@cclv
15107   \else
15108     \setbox\@outputbox\vbox
15109     {\ifvoid\@cclv \else
15110       \unvbox\@cclv
15111       \vskip \skip\@bidi@copyins@
15112     \fi
15113     \color@begingroup
15114     \normalcolor
15115     \unvbox \@bidi@copyins@
15116     \color@endgroup}%
15117 \fi
15118 \else
15119   \setbox\@outputbox\vbox
15120   {\ifvoid\@cclv \else
15121     \unvbox\@cclv
15122     \vskip\skip\footins\fi
15123     \color@begingroup
15124     \normalcolor
15125     \footnoterule\unvbox\footins
15126     \color@endgroup
15127     \ifvoid\@bidi@copyins@
15128     \else
15129       \vskip \skip\@bidi@copyins@
15130       \color@begingroup
15131       \normalcolor
15132       \unvbox \@bidi@copyins@
15133       \color@endgroup
15134     \fi
15135   }%
15136 \fi
15137 \fi
15138 \xdef\@freelist{\@freelist\@midlist}%
15139 \global \let \@midlist \@empty
15140 \@combinefloats
15141 \ifvbox\@kludgeins
15142   \@makespecialcolbox
15143 \else
15144   \setbox\@outputbox\vbox to\@colht
15145   {\boxmaxdepth\maxdepth
15146     \@texttop
15147     \@tempdima\dp\@outputbox

```



```

15148      \unvbox\@outputbox
15149      \vskip-\@tempdima
15150      \@textbottom}%
15151  \fi
15152  \global\maxdepth\@maxdepth}
15153
15154  \let\leftfootnoterule\@empty
15155  \let\rightfootnoterule\@empty
15156  \let\textwidthfootnoterule\@empty
15157  \let\autofootnoterule\@empty
15158  \let\footnoterule\@empty
15159  \long\def\@makefntext#1{\parindent 1em
15160    \noindent\hbox to 2em{}%
15161    \llap{\@thefnmark\hbox{.}\,\,}\,#1}
15162
15163  \setlength{\skip\@bidi@copyins@}
15164    {10pt plus 5pt minus 3pt}
15165  \AtBeginDocument{\prepare@bidi@copyins}

```

100 File graphicx-xetex-bidi.def

```

15166 \ProvidesFile{graphicx-xetex-bidi.def}[2017/06/17 v0.5 bidi adaptations for graphicx package]
15167 \def\Grot@box@std#1#2{\ifmmode\else\if@RTL\beginL\fi\fi%
15168   \Grot@setangle{#1}%
15169   \setbox\z@\hbox{\{\ifmmode\if@RTL\beginR\fi#2\if@RTL\endR\fi\else\if@RTL\beginR\fi#2\if@RTL\endR\fi\}}
15170   \Grot@x\z@
15171   \Grot@y\z@
15172   \Grot@box\ifmmode\else\if@RTL\endL\fi\fi}
15173 \long\def\Grot@box@kv[#1]#2#3{\ifmmode\else\if@RTL\beginL\fi\fi%
15174   \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi\}}
15175   \Grot@x\width \divide\Grot@x\tw@
15176   \Grot@y\height \advance\Grot@y-\depth \divide\Grot@y\tw@
15177   \setkeys{Grot}{#1}%
15178   \setbox\z@\box\@tempboxa
15179   \Grot@setangle{#2}%
15180   \Grot@box\ifmmode\else\if@RTL\endL\fi\fi
15181   \@end@tempboxa}
15182 \long\def\Gscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
15183   \leavevmode
15184   \def\Gscale@x{#1}\def\Gscale@y{#2}%
15185   \setbox\z@\hbox{\{#3\}}%
15186   \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
15187   \ifdim#2\p<\z@
15188     \ht\tw@-#2\dp\z@
15189     \dp\tw@-#2\ht\z@
15190   \else
15191     \ht\tw@#2\ht\z@
15192     \dp\tw@#2\dp\z@
15193   \fi
15194   \ifdim#1\p<\z@
15195     \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
15196   \else
15197     \wd\tw@#1\wd\z@
15198     \box\tw@

```



```

15199 \fi\ifmmode\else\if@RTL\endL\fi\fi}
15200 \def\Gin@iii[#1,#2][#3,#4]#5{%
15201 \begingroup
15202 \ifmmode\else\if@RTL\beginL\fi\fi
15203 \Gin@bboxtrue
15204 \Gin@defaultbp\Gin@llx{#1}%
15205 \Gin@defaultbp\Gin@lly{#2}%
15206 \Gin@defaultbp\Gin@urx{#3}%
15207 \Gin@defaultbp\Gin@ury{#4}%
15208 \Gininclude@graphics{#5}%
15209 \ifmmode\else\if@RTL\endL\fi\fi
15210 \endgroup}
15211 \def\Gin@ii[#1]#2{%
15212 \def\@tempa{[]}\def\@tempb{#2}%
15213 \ifx\@tempa\@tempb
15214 \def\@tempa{\Gin@iii[#1][]{}}%
15215 \expandafter\@tempa
15216 \else
15217 \begingroup
15218 \ifmmode\else\if@RTL\beginL\fi\fi
15219 \@tempswafalse
15220 \toks@{\Gininclude@graphics{#2}}%
15221 \setkeys{Gin}{#1}%
15222 \Gin@esetsize
15223 \the\toks@
15224 \ifmmode\else\if@RTL\endL\fi\fi
15225 \endgroup
15226 \fi}
15227 \def\reflectbox{\bidiGscale@box-1[1]}
15228 \long\def\bidiGscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
15229 \leavevmode
15230 \def\Gscale@x{#1}\def\Gscale@y{#2}%
15231 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
15232 \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
15233 \ifdim#2\p@<\z@
15234 \ht\tw@-#2\dp\z@
15235 \dp\tw@-#2\ht\z@
15236 \else
15237 \ht\tw@#2\ht\z@
15238 \dp\tw@#2\dp\z@
15239 \fi
15240 \ifdim#1\p@<\z@
15241 \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
15242 \else
15243 \wd\tw@#1\wd\z@
15244 \box\tw@
15245 \fi\ifmmode\else\if@RTL\endL\fi\fi}
15246 \def\scalebox#1{%
15247 \@ifnextchar[{\bidiGscale@box{#1}}{\bidiGscale@box{#1}[#1]}%
15248 \def\resizebox{%
15249 \leavevmode
15250 \@ifstar{\bidiGscale@@box\totalheight}{\bidiGscale@@box\height}}
15251 \def\bidiGscale@@box#1#2#3{%
15252 \let\@tempa\Gin@exclamation

```



```

15253 \expandafter\def\expandafter\@tempb\expandafter{\string#2}%
15254 \expandafter\def\expandafter\@tempc\expandafter{\string#3}%
15255 \ifx\@tempb\@tempa
15256   \ifx\@tempc\@tempa
15257     \toks@{\mbox}%
15258   \else
15259     \toks@{\bidiGscale@box@dd{#3}#1}%
15260   \fi
15261 \else
15262   \ifx\@tempc\@tempa
15263     \toks@{\bidiGscale@box@dd{#2}\width}%
15264   \else
15265     \toks@{\bidiGscale@box@dddd{#2}\width{#3}#1}%
15266   \fi
15267 \fi
15268 \the\toks@}
15269 \long\def\bidiGscale@box@dd#1#2#3{%
15270   \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
15271   \setlength\@tempdima{#1}%
15272   \setlength\@tempdimb{#2}%
15273   \Gscale@div\@tempa\@tempdima\@tempdimb
15274   \Gscale@box\@tempa[\@tempa]{\box\@tempboxa}%
15275   \@end@tempboxa}
15276 \long\def\bidiGscale@box@dddd#1#2#3#4#5{%
15277   \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#5\if@RTL\endR\fi\else\if@RTL\beginR\fi#5\if@RTL\endR\fi}%
15278   \setlength\@tempdima{#1}%
15279   \setlength\@tempdimb{#2}%
15280   \Gscale@div\@tempa\@tempdima\@tempdimb
15281   \setlength\@tempdima{#3}%
15282   \setlength\@tempdimb{#4}%
15283   \Gscale@div\@tempb\@tempdima\@tempdimb
15284   \ifGin@iso
15285     \ifdim\@tempa\p@>\@tempb\p@
15286       \let\@tempa\@tempb
15287     \else
15288       \let\@tempb\@tempa
15289     \fi
15290   \fi
15291   \Gscale@box\@tempa[\@tempb]{\box\@tempboxa}%
15292   \@end@tempboxa}

```

101 File geometry-xetex-bidi.def

```

15293 \ProvidesFile{geometry-xetex-bidi.def}[2017/01/14 v0.2 bidi adaptations for geometry package]
15294 \renewcommand*{\Gm@vrules@mpi}{%
15295   \if@RTLmain%
15296     \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
15297       \llap{\Gm@vrule}\ignorespaces
15298       \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
15299       \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}%
15300   \else%
15301     \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
15302       \hskip \textwidth\Gm@vrule\hskip \marginparsep
15303       \llap{\Gm@vrule}\hfil\Gm@vrule}\fi}%

```



```

15304 \renewcommand*{\Gm@vrules@mpii}{%
15305 \if@RTLmain%
15306   \hb@xt@{\@tempdima{\llap{\Gm@vrule}\ignorespaces
15307   \hskip \textwidth\Gm@vrule\hskip \marginparsep
15308   \llap{\Gm@vrule}\hfil\Gm@vrule}%
15309 \else%
15310   \hb@xt@{\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
15311   \llap{\Gm@vrule}\ignorespaces
15312   \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
15313   \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}\fi}%
15314 \bidi@patchcmd{\Gm@pageframes}{%
15315   \ifodd\count\z@
15316   \let\@themargin\oddsidemargin
15317   \else
15318   \let\@themargin\evensidemargin
15319   \fi
15320 }{%
15321   \ifodd\count\z@
15322   \if@RTLmain
15323     \let\@themargin\evensidemargin
15324   \else
15325     \let\@themargin\oddsidemargin
15326   \fi
15327   \else
15328   \if@RTLmain
15329     \let\@themargin\oddsidemargin
15330   \else
15331     \let\@themargin\evensidemargin
15332   \fi
15333   \fi
15334 }{}{}

```

102 File hggeneric-testphase-xetex-bidi.def

```

15335 \ProvidesFile{hggeneric-testphase-xetex-bidi.def}[2025/09/26 v0.3 bidi adaptations for generi
15336 \ExplSyntaxOn
15337 \bidi@undef\hyper@linkstart
15338 \bidi@undef\hyper@linkend
15339 \cs_new_protected:Npn \hyper@linkstart #1 #2 % #1 context, #2=destination name
15340 {
15341   \bool_if:NT \l__hyp_annot_GoTo_bool
15342   {
15343     \int_gincr:N\g__hyp_linknestlevel_int
15344     \__hyp_check_link_nesting:TF
15345     {
15346       \Hy@VerboseLinkStart{#1}{#2}% only for debug
15347       \group_begin:
15348       \tl_set:Nn \l_hyp_current_dest_name_tl {#2}
15349       \socket_use:nnn{hyp/link/GoTo/Contents}{#2}{}
15350       \hook_use:n {hyp/link/#1}
15351       \ifmmode\else\beginL\fi
15352       \__hyp_link_goto_begin:nw {#2}
15353     }
15354   }

```



```

15355         \group_begin:
15356     }
15357 }
15358 }
15359
15360 \cs_new_protected:Npn \hyper@linkend
15361 {
15362     \bool_if:NT \l__hyp_annot_GoTo_bool
15363     {
15364         \__hyp_check_link_nesting:TF
15365         {
15366             \__hyp_link_goto_end:
15367             \ifmmode\else\endL\fi
15368             \group_end:
15369             \Hy@VerboseLinkStop
15370         }
15371         {
15372             \group_end:
15373         }
15374         \int_gdecr:N\g__hyp_linknestlevel_int
15375     }
15376 }
15377 \AtBeginDocument{%
15378 \bidi@undef\hyper@link
15379 \bidi@undef\hyper@linkfile
15380 \bidi@undef\hyper@linkurl
15381 \bidi@undef\hyper@linknamed
15382 \cs_new_protected:Npn \hyper@link #1 #2 #3 % #1 context, #2=destination name, #3 content
15383 {
15384     \bool_if:NTF \l__hyp_annot_GoTo_bool
15385     {
15386         \int_gincr:N\g__hyp_linknestlevel_int
15387         \__hyp_check_link_nesting:TF
15388         {
15389             \Hy@VerboseLinkStart{#1}{#2}
15390             \group_begin:
15391             \tl_set:Nn \l_hyp_current_dest_name_tl {#2}
15392             \socket_use:nnn{hyp/link/GoTo/Contents}{#2}{#3}
15393             \hook_use:n {hyp/link/#1}
15394             \ifmmode\else\beginL\fi
15395             \__hyp_link_goto_begin:nw {#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\else\fi
15396             \__hyp_link_goto_end:
15397             \ifmmode\else\endL\fi
15398             \group_end:
15399             \Hy@VerboseLinkStop
15400         }
15401         {
15402             \group_begin: #3\group_end:
15403         }
15404         \int_gdecr:N\g__hyp_linknestlevel_int
15405     }
15406     {\let\protect\relax#3}}
15407 }
15408 \cs_new_protected:Npn \hyper@linkfile #1 #2 #3 % link text, filename, destname

```




```

15409 {
15410   \bool_if:NTF \l__hyp_annot_GoToR_bool
15411   {
15412     \int_gincr:N\g__hyp_linknestlevel_int
15413     \__hyp_check_link_nesting:TF
15414     {
15415       \group_begin:
15416       \tl_set:Nx \l__hyp_filename_tmpa_tl { \text_expand:n { #2 } }
15417       \exp_args:Nx
15418       \pdf_object_if_exist:nF { __hyp_file_\tl_to_str:N \l__hyp_filename_tmpa_tl }
15419       {
15420         \pdfdict_put:nne { l_pdffile/Filespec } { Subtype } { \pdf_name_from_unicode_e:n }
15421         \pdffile_embed_file:noe
15422         {}
15423         { \l__hyp_filename_tmpa_tl }
15424         { __hyp_file_\tl_to_str:N \l__hyp_filename_tmpa_tl }
15425       }
15426       \pdfdict_put:nne
15427       { l_hyp/annot/A/GoToR }
15428       { F }
15429       { \pdf_object_ref:e { __hyp_file_\tl_to_str:N \l__hyp_filename_tmpa_tl } }
15430       \__hyp_text_pdfstring:nnN
15431       { #3 }
15432       { \l__hyp_text_enc_dest_print_tl }
15433       \l__hyp_dest_name_tmpa_tl
15434       \socket_use:nn{hyp/link/GoToR/Contents}{#2}
15435       \tl_if_blank:eTF {#3}
15436       {
15437         \pdfdict_put:nne { l_hyp/annot/A/GoToR } { D }
15438         {
15439           [
15440             \int_eval:n
15441             { \int_max:nn {0} { 0\l__hyp_href_pdf_page_tl - 1 } }
15442             /\l__hyp_dest_pdfremotestartview_tl
15443           ]
15444         }
15445       }
15446       {
15447         \pdfdict_put:nno { l_hyp/annot/A/GoToR } { D } { \l__hyp_dest_name_tmpa_tl }
15448       }
15449       \mode_leave_vertical:
15450       \pdf_object_unnamed_write:ne{dict}{\pdfdict_use:n { l_hyp/annot/A/GoToR }}
15451       \pdfannot_dict_put:nne { link/GoToR } { A } { \pdf_object_ref_last: }
15452       \ifmmode\else\beginL\fi
15453       \pdfannot_link:nnn %expansion??
15454       { GoToR }
15455       {
15456       }
15457       {
15458         \let\protect\relax
15459         \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace
15460         \Hy@VerboseLinkStop %where is the start??
15461       }
15462       \ifmmode\else\endL\fi

```



```

15463         \group_end:
15464     }
15465     {
15466         \group_begin: #1 \group_end:
15467     }
15468     \int_gdecr:N\g__hyp_linknestlevel_int
15469 }
15470 {\let\protect\relax#1}}
15471 }
15472 \cs_new_protected:Npn \hyper@linkurl #1 #2 %#1:link text #2: URI,
15473 {
15474     \bool_if:NTF \l__hyp_annot_URI_bool
15475     {
15476         \int_gincr:N\g__hyp_linknestlevel_int
15477         \__hyp_check_link_nesting:TF
15478         {
15479             \group_begin:
15480             \__hyp_text_pdfstring:eoN
15481             { #2}
15482             { \l__hyp_text_enc_uri_print_tl }
15483             \l__hyp_uri_tmpa_tl
15484             \pdfdict_put:nno{1_hyp/annot/A/URI}{URI}{\l__hyp_uri_tmpa_tl}
15485             \bool_if:NT \l__hyp_href_url_ismap_bool
15486             {
15487                 \pdfdict_put:nnn{1_hyp/annot/A/URI}{IsMap}{true}
15488             }
15489             \socket_use:nn{hyp/link/URI/Contents}{#2}
15490             \cs_set_eq:NN \# \c_hash_str
15491             \cs_set_eq:NN \% \c_percent_str
15492             \Hy@safe@activetrue
15493             \mode_leave_vertical:
15494             \pdfannot_dict_put:nne {link/URI}{A}{<<\pdfdict_use:n {1_hyp/annot/A/URI}>>}
15495             \ifmmode\else\beginL\fi
15496             \pdfannot_link:nen { URI }
15497             {
15498             }
15499             {
15500                 \let\protect\relax
15501                 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi
15502                 \Hy@xspace@end
15503                 \Hy@VerboseLinkStop %where is the start??
15504             }
15505             \ifmmode\else\endL\fi
15506             \group_end:
15507         }
15508     }
15509     \group_begin: #1 \group_end:
15510 }
15511 \int_gdecr:N\g__hyp_linknestlevel_int
15512 }
15513 {\let\protect\relax#1}}
15514 }
15515 \RenewDocumentCommand \Acrobatmenu { m m }
15516 {

```



```

15517   \hyper@linknamed {#1} {#2}
15518 }
15519 \cs_new_protected:Npn \hyper@linknamed #1 #2 %#1 action, #2 link text
15520 {
15521   \bool_if:NTF \l__hyp_annot_Named_bool
15522   {
15523     \int_gincr:N\g__hyp_linknestlevel_int
15524     \__hyp_check_link_nesting:TF
15525     {
15526       \group_begin:
15527       \pdfmeta_standard_verify:nnTF {named_actions}{#1}
15528       {
15529         \mode_leave_vertical:
15530         \pdfdict_put:nne {l_hyp/annot/A/Named}{N}
15531         {\pdf_name_from_unicode_e:n{#1}}
15532         \pdfannot_dict_put:nne {link/Named}{A}{<<\pdfdict_use:n {l_hyp/annot/A/Named
15533         \ifmmode\else\beginL\fi
15534         \pdfannot_link:nnn { Named }
15535         {
15536           %           /A
15537           %           <<
15538           %           \pdfdict_use:n { l_hyp/annot/A/Named }
15539           %           >>
15540         }
15541         {
15542           \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi
15543           \Hy@xspace@end
15544           \Hy@VerboseLinkStop
15545         }
15546         \ifmmode\else\endL\fi
15547       }
15548       {
15549         \msg_warning:nnn { hyp } { pdfa-no-named-action }{#1}
15550         #2
15551       }
15552       \group_end:
15553     }
15554     { \group_begin: #2 \group_end: }
15555     \int_gdecr:N\g__hyp_linknestlevel_int
15556   }
15557   {\let\protect\relax#2}}
15558 }
15559 }
15560 \bidi@patchcmd\@TextField{%
15561   \pdfannot_box:nnnn
15562 }{%
15563   \if@RTL
15564     \hskip\Fld@width
15565   \fi
15566   \pdfannot_box:nnnn
15567 }{}{}
15568 \bidi@patchcmd\@TextField{%
15569   \MakeTextField{\Fld@width}{\Fld@height}
15570 }{%

```



```

15571 \if@RTL
15572 \hskip-\Fld@width
15573 \fi
15574 \MakeTextField{\Fld@width}{\Fld@height}
15575 }{}{}
15576 \ExplSyntaxOff

```

103 File hvfloat-xetex-bidi.def

```

15577 \ProvidesFile{hvfloat-xetex-bidi.def}[2012/04/18 v0.2 bidi adaptations for hvfloat package f
15578 \def\do@hvFloat[#1]#2#3{%
15579 \def\hv@shortCap{#1}
15580 \def\hv@longCap{#2}
15581 \def\hv@label{#3}
15582 %\newcommand*{\hvFloat}[5][{}]{%
15583 % #1: keyvalues
15584 % #2: type figure | table | ...
15585 % #3: float contents
15586 % #4: short caption
15587 % #5: caption
15588 % #6: label
15589 % \setDefaults%
15590 % \def@tempa{#1}%
15591 % \ifx@tempa\empty\else\setkeys{hvSet}{#1}\fi% set options, only when not empty
15592 \def@tempa{90}%
15593 \ifx\hvSet@rotAngle@tempa \setlength{\hvMaxCapWidth}{\textheight}
15594 \else \setlength{\hvMaxCapWidth}{\linewidth}
15595 \fi
15596 %
15597 % First we save the object in \hvObjectBox
15598 %
15599 \ifx\hvSet@objectAngle\hv@Zero % rotate the object?
15600 \savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}
15601 \else
15602 \savebox{\hvObjectBox}{%
15603 \rotatebox{\hvSet@objectAngle}{%
15604 \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}}
15605 \fi
15606 \setlength{\hvObjectWidth}{\wd\hvObjectBox}
15607 %
15608 % Now we save the caption with its defined \hvCapWidth
15609 %
15610 \ifx\hvSet@capWidth\hv@Width\setlength{\hvCapWidth}{\hvObjectWidth}
15611 \else
15612 \ifx\hvSet@capWidth\hv@Height\setlength{\hvCapWidth}{\ht\hvObjectBox}
15613 \else
15614 \setlength{\hvCapWidth}{\hvObjectWidth}
15615 \ifx\hvSet@capPos\hv@Left\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
15616 \ifx\hvSet@capPos\hv@Right\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
15617 \ifdim\hvSet@capWidth\columnwidth<\hvMaxCapWidth
15618 \setlength{\hvCapWidth}{\hvSet@capWidth\columnwidth}
15619 \else
15620 \setlength{\hvCapWidth}{\hvMaxCapWidth}
15621 \fi

```



```

15622 \fi
15623 \fi
15624 %
15625 % now we have the object and the caption with the right
15626 % rotated angles saved in boxes
15627 %
15628 \def\fps@figure{\hvSet@floatPos}
15629 \ifhv@nonFloat\begin{group}% Start the nonfloat part
15630 \else \begin{\hv@floatType}% Start the floating environment
15631 \fi%
15632 \saveCaptionSkip% we put this space ourselves
15633 \ifx\hvSet@capAngle\hv@Width % need rotation?
15634 \sbox{\hvCaptionBox}{%
15635 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
15636 \ifhv@nonFloat%
15637 \ifhv@onlyText#2%
15638 \else%
15639 \ifx\hv@floatType\hv@figure
15640 \ifx\relax#1\relax \figcaption{#2}\else\figcaption{#1}{#2}\fi
15641 \else
15642 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption{#1}{#2}\fi%
15643 \fi
15644 \fi
15645 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption{#1}{#2}\fi%
15646 \fi%
15647 \label{#3}%
15648 \end{minipage}%
15649 }%
15650 \else%
15651 \sbox{\hvCaptionBox}{%
15652 \rotatebox{\hvSet@capAngle}{%
15653 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
15654 \ifhv@nonFloat%
15655 \ifhv@onlyText#2%
15656 \else%
15657 \ifx\hv@floatType\hv@figure
15658 \ifx\relax#1\relax \figcaption{#2}\else\figcaption{#1}{#2}\fi
15659 \else
15660 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption{#1}{#2}\fi%
15661 \fi
15662 \fi
15663 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption{#1}{#2}\fi%
15664 \fi%
15665 \label{#3}%
15666 \end{minipage}%
15667 }%
15668 }%
15669 \fi%
15670 %%
15671 \restoreCaptionSkip% save old values
15672 \ifx\hvSet@objectPos\hv@Right\bidiraggedleft%
15673 \else%
15674 \ifx\hvSet@objectPos\hv@Center
15675 \ifhv@nonFloat\hspace*{\fill}\else\centering\fi%

```



```

15676     \fi%
15677 \fi%
15678 %
15679 % to rotate object and caption together, we save all in another box
15680 % the caption comes first, if its on the left or the top
15681 %
15682 \savebox{\@tempboxa}{%
15683   \ifx\hvSet@capPos\hv@Left % caption on left side
15684 \if@RTL%
15685 \ifx\hvSet@capVPos\hv@Center%
15686     \ifhv@fbox
15687     \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
15688     \else
15689     \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15690     \fi%
15691     \hspace{\hvSet@floatCapSep pt}%
15692     \ifhv@fbox
15693     \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15694     \else
15695     \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
15696     \fi%
15697 \else%
15698 \ifx\hvSet@capVPos\hv@Top
15699     \ifhv@fbox
15700     \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15701     \else
15702     \raisebox{-\height}{\usebox{\hvObjectBox}}%
15703     \fi%
15704     \hspace{\hvSet@floatCapSep pt}%
15705     \ifhv@fbox
15706     \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15707     \else
15708     \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15709     \fi
15710 \else
15711     \ifhv@fbox
15712     \fbox{\usebox{\hvObjectBox}}%
15713     \else
15714     \usebox{\hvObjectBox}%
15715     \fi
15716     \hspace{\hvSet@floatCapSep pt}%
15717     \ifhv@fbox
15718     \fbox{\usebox{\hvCaptionBox}}%
15719     \else
15720     \usebox{\hvCaptionBox}%
15721     \fi%
15722 \fi%
15723 \fi%
15724 \else% not RTL
15725 \ifx\hvSet@capVPos\hv@Center%
15726 \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15727 \else \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
15728 \fi%
15729 \hspace{\hvSet@floatCapSep pt}% capfloatsep

```



```

15730 \ifhv@fbox\fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
15731 \else \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15732 \fi%
15733 \else%
15734 \ifx\hvSet@capVPos\hv@Top % caption at top
15735 \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15736 \else \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15737 \fi
15738 \hspace{\hvSet@floatCapSep pt}% capfloatsep
15739 \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15740 \else \raisebox{-\height}{\usebox{\hvObjectBox}}%
15741 \fi%
15742 \else% caption on bottom
15743 \ifhv@fbox\fbbox{\usebox{\hvCaptionBox}}
15744 \else\usebox{\hvCaptionBox}
15745 \fi%
15746 \hspace{\hvSet@floatCapSep pt}%
15747 \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
15748 \else \usebox{\hvObjectBox}
15749 \fi%
15750 \fi%
15751 \fi% end of RTL
15752 \fi%
15753 \else
15754 \ifx\hvSet@capPos\hv@Top
15755 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
15756 \begin{minipage}{\wd\hvCaptionBox}
15757 \else
15758 \begin{minipage}{\wd\hvObjectBox}
15759 \fi
15760 \centering
15761 \ifhv@fbox
15762 \fbbox{\usebox{\hvCaptionBox}}\[\hvBelowCaptionSkip]
15763 \fbbox{\usebox{\hvObjectBox}}
15764 \else
15765 \usebox{\hvCaptionBox}\[\hvBelowCaptionSkip]
15766 \usebox{\hvObjectBox}
15767 \fi%
15768 \end{minipage}
15769 \else
15770 \ifx\hvSet@capPos\hv@Bottom
15771 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
15772 \begin{minipage}{\wd\hvCaptionBox}
15773 \else
15774 \begin{minipage}{\wd\hvObjectBox}
15775 \fi
15776 \centering
15777 \ifhv@fbox
15778 \fbbox{\usebox{\hvObjectBox}}\[\hvAboveCaptionSkip]
15779 \fbbox{\usebox{\hvCaptionBox}}
15780 \else
15781 \usebox{\hvObjectBox}\[\hvAboveCaptionSkip]
15782 \usebox{\hvCaptionBox}
15783 \fi%

```



```

15784     \end{minipage}
15785     \else% the last option: put the caption on the right
15786 \if@RTL%
15787     \ifx\hvSet@capVPos\hv@Center%
15788     \ifhv@fbox\fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15789     \else     \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
15790     \fi%
15791     \hspace{\hvSet@floatCapSep pt}% capfloatsep
15792     \ifhv@fbox\fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
15793     \else     \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}%
15794     \fi%
15795 \else%
15796     \ifx\hvSet@capVPos\hv@Top % caption at top
15797     \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15798     \else     \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15799     \fi
15800     \hspace{\hvSet@floatCapSep pt}% capfloatsep
15801     \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15802     \else     \raisebox{-\height}{\usebox{\hvObjectBox}}%
15803     \fi%
15804     \else% caption on bottom
15805     \ifhv@fbox\fbbox{\usebox{\hvCaptionBox}}
15806     \else\usebox{\hvCaptionBox}
15807     \fi%
15808     \hspace{\hvSet@floatCapSep pt}%
15809     \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
15810     \else     \usebox{\hvObjectBox}
15811     \fi%
15812     \fi%
15813 \fi%
15814 \else% not RTL
15815     \ifx\hvSet@capVPos\hv@Center%
15816     \ifhv@fbox
15817     \fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
15818     \else
15819     \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15820     \fi%
15821     \hspace{\hvSet@floatCapSep pt}%
15822     \ifhv@fbox
15823     \fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}
15824     \else
15825     \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
15826     \fi%
15827 \else%
15828     \ifx\hvSet@capVPos\hv@Top
15829     \ifhv@fbox
15830     \fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}
15831     \else
15832     \raisebox{-\height}{\usebox{\hvObjectBox}}
15833     \fi%
15834     \hspace{\hvSet@floatCapSep pt}%
15835     \ifhv@fbox
15836     \fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}
15837     \else

```




```

15838         \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15839         \fi
15840     \else
15841         \ifhv@fbox
15842             \fbox{\usebox{\hvObjectBox}}%
15843         \else
15844             \usebox{\hvObjectBox}%
15845         \fi
15846         \hspace{\hvSet@floatCapSep pt}%
15847         \ifhv@fbox
15848             \fbox{\usebox{\hvCaptionBox}}%
15849         \else
15850             \usebox{\hvCaptionBox}%
15851         \fi%
15852     \fi%
15853 \fi
15854 \fi% end of RTL
15855 \fi
15856 \fi
15857 \fi
15858 }% End savebox Object and caption
15859 %
15860 % now we rotate the object and caption, if needed
15861 %
15862 \ifx\hvSet@rotAngle\hv@Zero
15863     \usebox{\@tempboxa}
15864 \else
15865     \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}
15866 \fi
15867 \ifhv@nonFloat
15868     \ifx\hvSet@objectPos\hv@Center
15869         \ifhv@nonFloat
15870             \hspace{\fill}
15871         \fi
15872     \fi
15873 \endgroup% End the nonfloat part
15874 \else
15875     \end{\hv@floatType}% End the floating environment
15876 \fi
15877 }

```

104 File hyperref-xetex-bidi.def

```

15878 \ProvidesFile{hyperref-xetex-bidi.def}[2025/12/06 v1.5 bidi adaptations for hyperref package]
15879 \AtBeginDocument{%
15880 \def\contentsline#1#2#3#4{%
15881     \ifx\#4\%
15882         \csname l@#1\endcsname{#2}{#3}%
15883     \else
15884         \ifcase\Hy@linktoc % none
15885             \csname l@#1\endcsname{#2}{#3}%
15886         \or % section
15887             \csname l@#1\endcsname{%
15888                 \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend

```



```

15889     }{#3}%
15890 \or % page
15891     \csname l@#1\endcsname{#{2}}{#{%
15892         \hyper@linkstart{link}{#4}{#3}\hyper@linkend
15893     }%
15894 \else % all
15895     \csname l@#1\endcsname{#{%
15896         \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
15897     }{#{%
15898         \hyper@linkstart{link}{#4}{#3}\hyper@linkend
15899     }%
15900 \fi
15901 \fi
15902 }
15903 \ifHy@hyperfootnotes
15904     \let\H@footnotetext\@footnotetext
15905     \let\HRTL@RTLfootnotetext\@RTLfootnotetext
15906     \let\HLTR@LTRfootnotetext\@LTRfootnotetext
15907     \def\xfootnotenext[#1]{%
15908         \begingroup
15909             \csname c@#1\endcsname #1\relax
15910             \unrestored@protected@xdef\@thefnmark{\thempfn}%
15911         \endgroup
15912         \ifx\@footnotetext\@mpfootnotetext
15913             \expandafter\H@mpfootnotetext
15914         \else
15915             \expandafter\H@footnotetext
15916         \fi
15917     }%
15918     \def\xRTLfootnotenext[#1]{%
15919         \begingroup
15920             \csname c@#1\endcsname #1\relax
15921             \unrestored@protected@xdef\@thefnmark{\thempfn}%
15922         \endgroup
15923         \ifx\@RTLfootnotetext\@mpRTLfootnotetext
15924             \expandafter\HRTL@mpRTLfootnotetext
15925         \else
15926             \expandafter\HRTL@RTLfootnotetext
15927         \fi
15928     }%
15929     \def\xLTRfootnotenext[#1]{%
15930         \begingroup
15931             \csname c@#1\endcsname #1\relax
15932             \unrestored@protected@xdef\@thefnmark{\thempfn}%
15933         \endgroup
15934         \ifx\@LTRfootnotetext\@mpLTRfootnotetext
15935             \expandafter\HLTR@mpLTRfootnotetext
15936         \else
15937             \expandafter\HLTR@LTRfootnotetext
15938         \fi
15939     }%
15940     \def\xfootnotemark[#1]{%
15941         \begingroup
15942             \c@footnote #1\relax

```



```

15943     \unrestored@protected@xdef\@thefnmark{\thefootnote}%
15944     \endgroup
15945     \H@@footnotemark
15946 }%
15947 \let\H@@mpfootnotetext\@mpfootnotetext
15948 \let\HRTL@@mpRTLfootnotetext\@mpRTLfootnotetext
15949 \let\HLTR@@mpLTRfootnotetext\@mpLTRfootnotetext
15950 \long\def\@mpfootnotetext#1{%
15951     \H@@mpfootnotetext{%
15952         \ifHy@nesting
15953             \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15954         \else
15955             \Hy@raisedlink{%
15956                 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15957             }#1%
15958         \fi
15959     }%
15960 }%
15961 \long\def\@mpRTLfootnotetext#1{%
15962     \HRTL@@mpRTLfootnotetext{%
15963         \ifHy@nesting
15964             \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15965         \else
15966             \Hy@raisedlink{%
15967                 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15968             }#1%
15969         \fi
15970     }%
15971 }%
15972 \long\def\@mpLTRfootnotetext#1{%
15973     \HLTR@@mpLTRfootnotetext{%
15974         \ifHy@nesting
15975             \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15976         \else
15977             \Hy@raisedlink{%
15978                 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15979             }#1%
15980         \fi
15981     }%
15982 }%
15983 \long\def\@footnotetext#1{%
15984     \H@@footnotetext{%
15985         \ifHy@nesting
15986             \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15987         \else
15988             \Hy@raisedlink{%
15989                 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15990             }%
15991         \let\@currentHlabel\Hy@footnote@currentHlabel
15992         \let\@currentHref\Hy@footnote@currentHref
15993         \let\@currentlabelname\@empty
15994         #1%
15995     \fi
15996 }%

```



```

15997 }%
15998 \long\def\@RTLfootnotetext#1{%
15999 \HRTL@RTLfootnotetext{%
16000 \ifHy@nesting
16001 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
16002 \else
16003 \Hy@raisedlink{%
16004 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
16005 }%
16006 \let\@currentHlabel\Hy@footnote@currentHlabel
16007 \let\@currentHref\Hy@footnote@currentHref
16008 \let\@currentlabelname\@empty
16009 #1%
16010 \fi
16011 }%
16012 }%
16013 \long\def\@LTRfootnotetext#1{%
16014 \HLTR@LTRfootnotetext{%
16015 \ifHy@nesting
16016 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
16017 \else
16018 \Hy@raisedlink{%
16019 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
16020 }%
16021 \let\@currentHlabel\Hy@footnote@currentHlabel
16022 \let\@currentHref\Hy@footnote@currentHref
16023 \let\@currentlabelname\@empty
16024 #1%
16025 \fi
16026 }%
16027 }%
16028 \ApplyPatchCodeToPackage{tabularx}{%
16029 \let\HyOrg@TX@endtabularx\TX@endtabularx
16030 \def\Hy@tabularx@hook{%
16031 \let\@footnotetext\H@@footnotetext
16032 \let\@LTRfootnotetext\HLTR@LTRfootnotetext
16033 \let\@RTLfootnotetext\HRTL@RTLfootnotetext
16034 \let\@footnotemark\H@@footnotemark
16035 \let\@mpfootnotetext\H@@mpfootnotetext
16036 \let\@mpLTRfootnotetext\HLTR@mpLTRfootnotetext
16037 \let\@mpRTLfootnotetext\HRTL@mpRTLfootnotetext
16038 }%
16039 \begingroup
16040 \toks@\expandafter{\TX@endtabularx}%
16041 \xdef\Hy@gtemp{%
16042 \noexpand\Hy@tabularx@hook
16043 \the\toks@
16044 }%
16045 \endgroup
16046 \let\TX@endtabularx\Hy@gtemp
16047 }%
16048 \ApplyPatchCodeToPackage{longtable}{%
16049 \CheckCommand{\LT@p@LTRfnttext}[1]{%
16050 \edef\@tempa{%

```



```

16051     \the\LT@p@ftn
16052     \noexpand\LTRfootnotetext[\the\c@footnote]%
16053   }%
16054   \global\LT@p@ftn\expandafter{\@tempa{#1}}%
16055 }%
16056 \long\def\LT@p@LTRftntext#1{%
16057   \edef\@tempa{%
16058     \the\LT@p@ftn
16059     \begingroup
16060     \noexpand\c@footnote=\the\c@footnote\relax
16061     \noexpand\protected@xdef\noexpand\@thefnmark{%
16062       \noexpand\thempfn
16063     }%
16064     \noexpand\Hy@LT@LTRfootnotetext{%
16065       \Hy@footnote@currentHref
16066     }%
16067   }%
16068   \global\LT@p@ftn\expandafter{%
16069     \@tempa{#1}%
16070   \endgroup
16071   }%
16072 }%
16073 \long\def\Hy@LT@LTRfootnotetext#1#2{%
16074   \HLTR@@@LTRfootnotetext{%
16075     \ifHy@nesting
16076       \hyper@@anchor{#1}{#2}%
16077     \else
16078       \Hy@raisedlink{%
16079         \hyper@@anchor{#1}{\relax}%
16080       }%
16081       \def\@currentHref{#1}%
16082       \let\@currentlabelname\@empty
16083       #2%
16084     \fi
16085   }%
16086 }%
16087 \CheckCommand{\LT@p@RTLftntext}[1]{%
16088   \edef\@tempa{%
16089     \the\LT@p@ftn
16090     \noexpand\RTLfootnotetext[\the\c@footnote]%
16091   }%
16092   \global\LT@p@ftn\expandafter{\@tempa{#1}}%
16093 }%
16094 \long\def\LT@p@RTLftntext#1{%
16095   \edef\@tempa{%
16096     \the\LT@p@ftn
16097     \begingroup
16098     \noexpand\c@footnote=\the\c@footnote\relax
16099     \noexpand\protected@xdef\noexpand\@thefnmark{%
16100       \noexpand\thempfn
16101     }%
16102     \noexpand\Hy@LT@RTLfootnotetext{%
16103       \Hy@footnote@currentHref
16104     }%

```



```

16105     }%
16106     \global\LT@p@ftn\expandafter{%
16107         \@tempa{#1}%
16108     \endgroup
16109     }%
16110 }%
16111 \long\def\Hy@LT@RTLfootnotetext#1#2{%
16112     \HRTL@RTLfootnotetext{%
16113         \ifHy@nesting
16114             \hyper@@anchor{#1}{#2}%
16115         \else
16116             \Hy@raisedlink{%
16117                 \hyper@@anchor{#1}{\relax}%
16118             }%
16119             \def\@currentHref{#1}%
16120             \let\@currentlabelname\@empty
16121             #2%
16122         \fi
16123     }%
16124 }%
16125 }%
16126 \ApplyPatchCodeToPackage{bidipoem}{%
16127 \long\def\bidipoem@p@ftntext#1{%
16128     \edef\@tempx{%
16129         \the\bidipoem@p@ftn
16130     \begingroup
16131         \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
16132         \noexpand\protected@xdef\noexpand\@thefnmark{%
16133             \noexpand\thempfn
16134         }%
16135         \noexpand\Hy@bidipoem@footnotetext{%
16136             \Hy@footnote@currentHref
16137         }%
16138     }%
16139     \global\bidipoem@p@ftn\expandafter{%
16140         \@tempx{#1}%
16141     \endgroup
16142     }%
16143 }%
16144 \long\def\Hy@bidipoem@footnotetext#1#2{%
16145     \H@@footnotetext{%
16146         \ifHy@nesting
16147             \hyper@@anchor{#1}{#2}%
16148         \else
16149             \Hy@raisedlink{%
16150                 \hyper@@anchor{#1}{\relax}%
16151             }%
16152             \def\@currentHref{#1}%
16153             \let\@currentlabelname\@empty
16154             #2%
16155         \fi
16156     }%
16157 }%
16158 \long\def\bidipoem@p@LTRftntext#1{%

```



```

16159 \edef\@tempxi{%
16160 \the\bidipoem@p@ftn
16161 \begingroup
16162 \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
16163 \noexpand\protected@xdef\noexpand\@thefnmark{%
16164 \noexpand\thempfn
16165 }%
16166 \noexpand\Hy@bidipoem@LTRfootnotetext{%
16167 \Hy@footnote@currentHref
16168 }%
16169 }%
16170 \global\bidipoem@p@ftn\expandafter{%
16171 \@tempxi{#1}%
16172 \endgroup
16173 }%
16174 }%
16175 \long\def\Hy@bidipoem@LTRfootnotetext#1#2{%
16176 \HLTR@@LTRfootnotetext{%
16177 \ifHy@nesting
16178 \hyper@@anchor{#1}{#2}%
16179 \else
16180 \Hy@raisedlink{%
16181 \hyper@@anchor{#1}{\relax}%
16182 }%
16183 \def\@currentHref{#1}%
16184 \let\@currentlabelname\@empty
16185 #2%
16186 \fi
16187 }%
16188 }%
16189 \long\def\bidipoem@p@RTLftntext#1{%
16190 \edef\@tempxii{%
16191 \the\bidipoem@p@ftn
16192 \begingroup
16193 \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
16194 \noexpand\protected@xdef\noexpand\@thefnmark{%
16195 \noexpand\thempfn
16196 }%
16197 \noexpand\Hy@bidipoem@RTLfootnotetext{%
16198 \Hy@footnote@currentHref
16199 }%
16200 }%
16201 \global\bidipoem@p@ftn\expandafter{%
16202 \@tempxii{#1}%
16203 \endgroup
16204 }%
16205 }%
16206 \long\def\Hy@bidipoem@RTLfootnotetext#1#2{%
16207 \HRTL@@RTLfootnotetext{%
16208 \ifHy@nesting
16209 \hyper@@anchor{#1}{#2}%
16210 \else
16211 \Hy@raisedlink{%
16212 \hyper@@anchor{#1}{\relax}%

```



```

16213         }%
16214         \def\@currentHref{#1}%
16215         \let\@currentlabelname\@empty
16216         #2%
16217     \fi
16218 }%
16219 }%
16220 }%
16221 % \let\HyOrg@maketitle\maketitle
16222 \def\maketitle{%
16223     \let\Hy@saved@footnotemark\@footnotemark
16224     \let\Hy@saved@footnotetext\@footnotetext
16225     \let\HyRTL@saved@RTLfootnotetext\@RTLfootnotetext
16226     \let\HyLTR@saved@LTRfootnotetext\@LTRfootnotetext
16227     \let\@footnotemark\H@@footnotemark
16228     \let\@footnotetext\H@@footnotetext
16229     \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
16230     \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
16231     \@ifnextchar[\Hy@maketitle@optarg{% ]
16232     \HyOrg@maketitle
16233     \Hy@maketitle@end
16234 }%
16235 }%
16236 \def\Hy@maketitle@optarg[#1]{%
16237     \HyOrg@maketitle[#{#1}]%
16238     \Hy@maketitle@end
16239 }%
16240 \def\Hy@maketitle@end{%
16241     \ifx\@footnotemark\H@@footnotemark
16242         \let\@footnotemark\Hy@saved@footnotemark
16243     \fi
16244     \ifx\@footnotetext\H@@footnotetext
16245         \let\@footnotetext\Hy@saved@footnotetext
16246     \fi
16247     \ifx\@RTLfootnotetext\HRTL@@RTLfootnotetext
16248         \let\@RTLfootnotetext\HyRTL@saved@RTLfootnotetext
16249     \fi
16250     \ifx\@LTRfootnotetext\HLTR@@LTRfootnotetext
16251         \let\@LTRfootnotetext\HyLTR@saved@LTRfootnotetext
16252     \fi
16253 }%
16254 \def\realfootnote{%
16255     \@ifnextchar[\@xfootnote{%
16256         \stepcounter{\@mpfn}%
16257         \protected@xdef\@thefnmark{\thempfn}%
16258         \H@@@footnotemark\H@@@footnotetext
16259     }%
16260 }%
16261 \fi
16262 \def\Hy@BeginAnnot#1{%
16263     \ifmmode\else\beginL\fi%
16264     \global\advance\c@Hy@AnnotLevel\@ne
16265     \ifnum\c@Hy@AnnotLevel=\@ne
16266         #1%

```




```

16267 \fi
16268 }
16269 \def\Hy@EndAnnot{%
16270 \ifnum\c@Hy@AnnotLevel=\@ne
16271 \Hy@endcolorlink
16272 \@pdfm@mark{eann}%
16273 \fi
16274 \global\advance\c@Hy@AnnotLevel\m@ne
16275 \ifmmode\else\endL\fi%
16276 }
16277 \def\hyper@link#1#2#3{%
16278 \hyper@linkstart{#1}{#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\else\if@RTL\endR\fi\fi%
16279 }
16280 \def\hyper@linkfile#1#2#3{%
16281 \leavevmode
16282 \Hy@BeginAnnot{%
16283 \def\Hy@pstringF{#2}%
16284 \Hy@CleanupFile\Hy@pstringF
16285 \Hy@pstringdef\Hy@pstringF\Hy@pstringF
16286 \Hy@pstringdef\Hy@pstringD{#3}%
16287 \Hy@MakeRemoteAction
16288 \@pdfm@mark{%
16289 bann<<%
16290 /Type/Annot%
16291 /Subtype/Link%
16292 \ifHy@pdfa /F 4\fi
16293 \Hy@setpdfborder
16294 \ifx\@filebordercolor\relax
16295 \else
16296 /C[\@filebordercolor]%
16297 \fi
16298 /A<<%
16299 /S/GoToR%
16300 /F(\Hy@pstringF)%
16301 /D%
16302 \ifx\@#3\%
16303 [\Hy@href@page\@pdfremotestartview]%
16304 \else
16305 (\Hy@pstringD)%
16306 \fi
16307 \Hy@SetNewWindow
16308 \Hy@href@nextactionraw
16309 >>%
16310 >>%
16311 }%
16312 \Hy@colorlink\@filecolor
16313 }%
16314 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
16315 \Hy@EndAnnot
16316 }
16317 \def\@hyper@launch run:#1\@#2#3{% filename, anchor text linkname
16318 \leavevmode
16319 \Hy@BeginAnnot{%
16320 \Hy@pstringdef\Hy@pstringF{#1}%

```



```

16321 \Hy@pstringdef\Hy@pstringP{#3}%
16322 \@pdfm@mark{%
16323   bann<<%
16324     /Type/Annot%
16325     /Subtype/Link%
16326     \ifHy@pdfa /F 4\fi
16327     \Hy@setpdfborder
16328     \ifx\@runbordercolor\relax
16329     \else
16330       /C[\@runbordercolor]%
16331     \fi
16332     /A<<%
16333     /F(\Hy@pstringF)%
16334     /S/Launch%
16335     \Hy@SetNewWindow
16336     \ifx\#3\%
16337     \else
16338       /Win<</P(\Hy@pstringP)/F(\Hy@pstringF)>>%
16339     \fi
16340     \Hy@href@nextactionraw
16341     >>%
16342   >>%
16343   }%
16344   \Hy@colorlink\@runcolor
16345 }%
16346 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
16347 \Hy@endAnnot
16348 }
16349 \def\hyper@linkurl#1#2{%
16350   \leavevmode
16351   \Hy@BeginAnnot{%
16352     \Hy@pstringdef\Hy@pstringURI{#2}%
16353     \@pdfm@mark{%
16354       bann<<%
16355         /Type/Annot%
16356         /Subtype/Link%
16357         \ifHy@pdfa /F 4\fi
16358         \Hy@setpdfborder
16359         \ifx\@urlbordercolor\relax
16360         \else
16361           /C[\@urlbordercolor]%
16362         \fi
16363         /A<<%
16364         /S/URI%
16365         /URI(\Hy@pstringURI)%
16366         \ifHy@href@ismap
16367         /IsMap true%
16368         \fi
16369         \Hy@href@nextactionraw
16370       >>%
16371     >>%
16372     }%
16373     \Hy@colorlink\@urlcolor
16374   }%

```



```

16375 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
16376 \Hy@EndAnnot
16377 }
16378 \def\Acrobatmenu#1#2{%
16379 \Hy@Acrobatmenu{#1}{#2}{%
16380 \Hy@BeginAnnot{%
16381 \EdefEscapeName\Hy@temp@menu{#1}%
16382 \@pdfm@mark{%
16383 bann<<%
16384 /Type/Annot%
16385 /Subtype/Link%
16386 \ifHy@pdfa /F 4\fi
16387 \Hy@setpdfborder
16388 \ifx\@menubordercolor\relax
16389 \else
16390 /C[\@menubordercolor]%
16391 \fi
16392 /A<<%
16393 /S/Named%
16394 /N/\Hy@temp@menu
16395 \Hy@href@nextactionraw
16396 >>%
16397 >>%
16398 }%
16399 \Hy@colorlink\@menucolor
16400 }%
16401 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
16402 \Hy@EndAnnot
16403 }%
16404 }
16405 \def\hyper@natlinkstart#1{%
16406 \Hy@backout{#1}%
16407 \hyper@linkstart{cite}{cite.#1}\if@RTL\beginR\fi%
16408 \def\hyper@nat@current{#1}%
16409 }
16410 \def\hyper@natlinkend{%
16411 \if@RTL\endR\fi\hyper@linkend
16412 }
16413 \def\hyper@natlinkbreak#1#2{%
16414 \if@RTL\endR\fi\hyper@linkend#1\hyper@linkstart{cite}{cite.#2}\if@RTL\beginR\fi%
16415 }%
16416 }
16417 \pdfstringdefDisableCommands{%
16418 \let\LRE\@firstofone
16419 \let\LR\@firstofone
16420 \let\RLE\@firstofone
16421 \let\RL\@firstofone
16422 \def\XeTeX{Xe\TeX}%
16423 \def\XeLaTeX{Xe\LaTeX}%
16424 }
16425 \bidi@patchcmd\@TextField{%
16426 \@pdfm@mark
16427 }{%
16428 \if@RTL

```



```

16429 \hskip\Fld@width
16430 \fi
16431 \@pdfm@mark
16432 }{}{}
16433 \bidi@patchcmd\@TextField{%
16434 \unhbox
16435 }{%
16436 \if@RTL
16437 \hskip-\Fld@width
16438 \fi
16439 \unhbox
16440 }{}{}
16441 \bidi@patchcmd\@@Radio{%
16442 \@pdfm@mark
16443 }{%
16444 \if@RTL
16445 \hskip\Fld@width
16446 \fi
16447 \@pdfm@mark
16448 }{}{}
16449 \bidi@patchcmd\@@Radio{%
16450 \unhcopy
16451 }{%
16452 \if@RTL
16453 \hskip-\Fld@width
16454 \fi
16455 \unhcopy
16456 }{}{}
16457 \bidi@patchcmd\@Submit{%
16458 \@pdfm@mark
16459 }{%
16460 \if@RTL
16461 \null
16462 \hskip\wd\pdfm@box
16463 \fi
16464 \@pdfm@mark
16465 }{}{}
16466 \bidi@patchcmd\@Submit{%
16467 \unhbox
16468 }{%
16469 \if@RTL
16470 \hskip-\wd\pdfm@box
16471 \fi
16472 \unhbox
16473 }{}{}
16474 \bidi@patchcmd\@Reset{%
16475 \@pdfm@mark
16476 }{%
16477 \if@RTL
16478 \null
16479 \hskip\wd\pdfm@box
16480 \fi
16481 \@pdfm@mark
16482 }{}{}

```



```

16483 \bidi@patchcmd\@Reset{%
16484   \unhbox
16485 }{%
16486   \if@RTL
16487     \hskip-\wd\pdfm@box
16488   \fi
16489   \unhbox
16490 }{}{}

```

105 File `imsproc-xetex-bidi.def`

```

16491 \ProvidesFile{imsproc-xetex-bidi.def}[2025/09/30 v0.2 bidi adaptations for imsproc class for
16492 \newenvironment{thebibliography}[1]{%
16493   \@bibtitlestyle
16494   \normalfont\bibliofont\labelsep .5em\relax
16495   \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
16496   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
16497   \bidi@thebibliography@font@hook
16498   \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
16499     \leftmargin\labelwidth \advance\leftmargin\labelsep
16500     \usecounter{enumiv}}%
16501   \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
16502   \sfcode`\.=\@m
16503 }{%
16504   \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
16505   \endlist
16506 }
16507
16508 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
16509   \columnseprule\z@ \columnsep 35\p@
16510   \@indextitlestyle
16511   \thispagestyle{plain}%
16512   \let\item\@idxitem
16513   \parindent\z@ \parskip\z@\@plus.3\p@\relax
16514   \if@RTL\raggedleft\else\raggedright\fi
16515   \hyphenpenalty\@M
16516   \footnotesize}
16517 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
16518 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
16519 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
16520
16521 \def\right@footnoterule{%
16522   \kern-.4\p@
16523   \nointerlineskip
16524   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
16525   \kern11\p@\kern-\footnotesep}
16526 \def\left@footnoterule{\kern-.4\p@
16527   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
16528 \def\@makefnmark{%
16529   \leavevmode
16530   \raise.9ex\hbox{\fontsize\sf@size\z@\normalfont\@thefnmark}}%
16531 }
16532
16533 \def\part{\@startsection{part}{0}%

```



```

16534 \z@{\linespacing\@plus\linespacing}{.5\linespacing}%
16535 {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
16536 \def\tocline#1#2#3#4#5#6#7{\relax
16537 \ifnum #1>\c@tocdepth % then omit
16538 \else
16539 \par \addpenalty\@secpenalty\addvspace{#2}%
16540 \begingroup \hyphenpenalty\@M
16541 \ifempty{#4}{%
16542 \@tempdima\csname r@tocindent\number#1\endcsname\relax
16543 }{%
16544 \@tempdima#4\relax
16545 }%
16546 \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\leftskip\fi#4\relax
16547 \if@RTL\leftskip\else\rightskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
16548 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
16549 \hfil\hbox to\@pnumwidth{\tocpagenum{#7}}\par
16550 \nobreak
16551 \endgroup
16552 \fi}
16553 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
16554 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
16555 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
16556 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
16557 \def\maketitle{\par
16558 \topnum\z@ % this prevents figures from falling at the top of page 1
16559 \setcopyright
16560 \thispagestyle{firstpage}% this sets first page specifications
16561 \uppercase\shorttitle
16562 \ifx\@empty\shortauthors \let\shortauthors\shorttitle
16563 \else \andify\shortauthors
16564 \fi
16565 \@maketitle@hook
16566 \begingroup
16567 \@maketitle
16568 \toks@{\xp{\shortauthors}\@temptokena\xp{\shorttitle}}%
16569 \toks4{\def\{\ignorespaces}}% defend against questionable usage
16570 \edef\@tempa{%
16571 \nx\markboth{\the\toks4
16572 \nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
16573 \@tempa
16574 \endgroup
16575 \c@footnote\z@
16576 \cleartopmattertags
16577 }

```

106 File leqno-xetex-bidi.def

```

16578 \ProvidesFile{leqno-xetex-bidi.def}[2018/01/07 v0.2 bidi adaptations for leqno tag for XeTeX]
16579 \renewcommand\@eqnnum{\hb@xt@.01\p@{}%
16580 \rlap{\hskip -\displaywidth
16581 {\normalfont\normalcolor\if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}

```

107 File letter-xetex-bidi.def



```

16582 \ProvidesFile{letter-xetex-bidi.def}[2025/09/30 v0.4 bidi adaptations for standard letter cl
16583 \renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
16584 \thispagestyle{firstpage}%
16585 {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
16586 \else % home address
16587 \thispagestyle{empty}%
16588 {\if@RTL\raggedright\else\raggedleft\fi\if@RTL\begin{tabular}{r{}}\else\begin{tabular}{l{}}
16589 \fromaddress \*[2\parskip]%
16590 \@date \end{tabular}\par}%
16591 \fi
16592 \vspace{2\parskip}%
16593 {\if@RTL\raggedleft\else\raggedright\fi \toname \ \ toaddress \par}%
16594 \vspace{2\parskip}%
16595 #1\par\nobreak}
16596 \renewcommand\left@footnoterule{%
16597 \kern-\p@
16598 \hrule \@width .4\columnwidth
16599 \kern .6\p@}
16600 \renewcommand\right@footnoterule{%
16601 \kern-\p@
16602 \nointerlineskip
16603 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
16604 \kern .6\p@}

```

108 File lettrine-xetex-bidi.def

```

16605 \ProvidesFile{lettrine-xetex-bidi.def}[2024/12/08 v0.9 bidi adaptations for lettrine package
16606 \RemoveFromHook{begindocument}[lettrine]
16607 \AtBeginDocument[lettrine]{%
16608 \if\DefaultOptionsFile\relax
16609 \else
16610 \InputIfFileExists{\DefaultOptionsFile}%
16611 {}%
16612 {\PackageWarning{lettrine.sty}%
16613 {File \DefaultOptionsFile\space not found}%
16614 }%
16615 \fi
16616 \let\ifL@RTL\if@RTL
16617 }

```

109 File lineno-xetex-bidi.def

```

16618 \ProvidesFile{lineno-xetex-bidi.def}[2024/12/07 v0.3 bidi adaptations for lineno package for
16619 \bidi@patchcmd{\MakeLineNo}{%
16620 \hb@xt@\z@{\makeLineNumber}%
16621 }{%
16622 \hboxL to \z@{\makeLineNumber}%
16623 }{}{}
16624
16625 \bidi@patchcmd{\makeLineNumberLeft}{\LineNumber}{%
16626 \if@RTL
16627 \hb@xt@\linenumberwidth{\LineNumber\hss}%
16628 \else
16629 \LineNumber

```



```

16630 \fi
16631 }{}{}
16632
16633 \bidi@patchcmd{\makeLineNumberRight}{%
16634 \hb@xt@\linenumberwidth{\hss\LineNumber}%
16635 }{%
16636 \if@RTL
16637 \LineNumber
16638 \else
16639 \hb@xt@\linenumberwidth{\hss\LineNumber}%
16640 \fi
16641 }{}{}
16642
16643 \bidi@AfterPreamble{%
16644 \if@RTLmain
16645 \rightlinenumbers*
16646 \else
16647 \leftlinenumbers*
16648 \fi
16649 \@ifpackagewith{lineno}{left}{%
16650 \leftlinenumbers*
16651 }{}
16652 \@ifpackagewith{lineno}{right}{%
16653 \rightlinenumbers*
16654 }{}
16655 \@ifpackagewith{lineno}{switch}{%
16656 \if@RTLmain
16657 \switchlinenumbers*%
16658 \else
16659 \switchlinenumbers
16660 \fi
16661 }{}
16662 \@ifpackagewith{lineno}{switch*}{%
16663 \if@RTLmain
16664 \switchlinenumbers
16665 \else
16666 \switchlinenumbers*%
16667 \fi
16668 }{}
16669 }
16670

```

110 File listings-xetex-bidi.def

```

16671 \ProvidesFile{listings-xetex-bidi.def}[2025/01/03 v1.6 bidi adaptations for listings package]
16672 \lst@Key{captiondirection}{textdirection}{%
16673 \lstKV@SwitchCases{#1}%
16674 {textdirection:\\%
16675 RTL:\chardef\bidi@lst@caption@direction\@ne\\%
16676 LTR:\chardef\bidi@lst@caption@direction\z@%
16677 }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
16678
16679 \lst@Key{captionscript}{textscript}{%
16680 \lstKV@SwitchCases{#1}%

```




```

16681 {textscript:\\%
16682 latin:\chardef\bidi@lst@caption@script\@ne\\%
16683 nonlatin:\chardef\bidi@lst@caption@script\z@%
16684 }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
16685
16686 \newcommand*{\bidi@lst@ensure@caption@direction}[2]{%
16687 \@ifundefined{bidi@lst@caption@direction}{}{%
16688 \ifnum\bidi@lst@caption@direction=\z@%
16689 #1%
16690 \else%
16691 \ifnum\bidi@lst@caption@direction=\@ne%
16692 #2%
16693 \fi%
16694 \fi%
16695 }}
16696
16697 \newcommand*{\bidi@lst@ensure@caption@script}[2]{%
16698 \@ifundefined{bidi@lst@caption@script}{}{%
16699 \ifnum\bidi@lst@caption@script=\z@%
16700 #1%
16701 \else%
16702 \ifnum\bidi@lst@caption@script=\@ne%
16703 #2%
16704 \fi%
16705 \fi%
16706 }}
16707
16708 \long\def\@bidi@lst@makecaption#1#2{%
16709 \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
16710 \vskip\abovecaptionskip
16711 \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16712 \sbox\@tempboxa{%
16713 \bidi@lst@ensure@caption@direction{\beginL}{\beginR}%
16714 #1: #2%
16715 \bidi@lst@ensure@caption@direction{\endL}{\endR}%
16716 }%
16717 \ifdim \wd\@tempboxa >\hsize
16718 #1: #2\par
16719 \else
16720 \global \@minipagefalse
16721 \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
16722 \fi
16723 \vskip\belowcaptionskip}%
16724 \def\lst@makecaption{\@bidi@lst@makecaption}
16725 \def\lst@maketitle{\@bidi@lst@makecaption\lst@title@dropdelim}
16726 \bidi@AtEndPreamble{%
16727 \bidi@patchcmd{\lst@MakeCaption}{%
16728 \ifx #1t%
16729 \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
16730 \expandafter\refstepcounter
16731 \fi {lstlisting}}%
16732 }{%
16733 \ifx #1t%
16734 \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%

```



```

16735      \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
16736      \expandafter\refstepcounter
16737      \fi {lstlisting}%
16738      \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLfalse}%
16739 }{}{}%
16740 \bidi@patchcmd{\lst@MakeCaption}{%
16741      \addcontentsline{lol}{lstlisting}%
16742      {\protect\numberline{\thelstlisting}\lst@@caption}%
16743 }{}%
16744 \begingroup%
16745      \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16746      \addcontentsline{lol}{lstlisting}%
16747      {\protect\numberline{\thelstlisting}\lst@@caption}%
16748 \endgroup%
16749 }{}{}%
16750 }
16751 \ApplyPatchIfPackageLoaded{caption}{%
16752   \AtBeginCaption{%
16753     \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
16754     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16755   }
16756   \let\@bidi@lst@makecaption\caption@makecaption%
16757   \def\lst@makecaption{\caption@starfalse\@bidi@lst@makecaption}%
16758   \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}%
16759 }{}%
16760 \AtBeginDocument{%
16761   \@ifundefined{captionlabelfalse}{}{}%
16762   \def\lst@maketitle{\captionlabelfalse\@bidi@lst@makecaption\@empty}}%
16763 \@ifundefined{caption@startrue}{}{}%
16764 \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}}%
16765 }%
16766 }
16767 \AtBeginDocument{
16768   \@ifundefined{thechapter}{\let\lst@ifnumberbychapter\iffalse}{}
16769   \lst@ifnumberbychapter
16770     \gdef\thelstlisting%
16771       {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@lstlisting}
16772   \else
16773     \gdef\thelstlisting{\@arabic\c@lstlisting}
16774   \fi}

```

111 File longtable-xetex-bidi.def

```

16775 \ProvidesFile{longtable-xetex-bidi.def}[2025/01/05 v0.8 bidi adaptations for longtable packa
16776 \ExplSyntaxOn
16777 \def\LT@array[#1]#2{%
16778   \UseTaggingSocket{tbl/init}
16779   \tl_if_empty:eTF { \LTcaptive }
16780   {
16781     \tl_gset:Ne \@currentHref {LT@tables.\theHLT@tables}
16782   }
16783   {
16784     \@kernel@refstepcounter{\LTcaptive}\stepcounter{LT@tables}
16785     \tl_gset:Ne \@currentHref {LTcaptive.\cs_if_exist_use:c {theH\LTcaptive}}

```



```

16786     }
16787     \tbl_gzero_row_count:
16788     \UseTaggingSocket{tbl/longtable/init}
16789     \if l#1%
16790         \if@RTLtab\LTleft\fill \LTright\z@\else\LTleft\z@ \LTright\fill\fi
16791     \else\if r#1%
16792         \if@RTLtab\LTleft\z@ \LTright\fill\else\LTleft\fill \LTright\z@\fi
16793     \else\if c#1%
16794         \LTleft\fill \LTright\fill
16795     \fi\fi\fi
16796     \let\LT@mc@col\multicolumn
16797     \let\LT@@@tabarray\@tabarray
16798     \let\LT@@@hl\hline
16799     \def\@tabarray{%
16800         \let\hline\LT@@@hl
16801         \LT@@@tabarray}%
16802     \let\@LT@tabularcr
16803     \let\@tabularnewline\@
16804     \def\newpage{\noalign{\break}}%
16805     \def\pagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk-}4}%
16806     \def\nopagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk4}}%
16807     \let\hline\LT@hline \let\kill\LT@kill\let\caption\LT@caption
16808     \@tempdima\ht\strutbox
16809     \let\@endpbox\LT@endpbox
16810     \ifx\extrarowheight\@undefined
16811         \let\@acol\@tabacol
16812         \let\@classz\@tabclassz \let\@classiv\@tabclassiv
16813         \def\@startpbox{\vtop\LT@startpbox}%
16814         \let\@@startpbox\@startpbox
16815         \let\@@endpbox\@endpbox
16816         \let\LT@LL@FM@cr\@tabularcr
16817     \else
16818         \advance\@tempdima\extrarowheight
16819         \col@sep\@tabcolsep
16820         \let\@startpbox\LT@startpbox\let\LT@LL@FM@cr\@arraycr
16821     \fi
16822     \setbox\@arstrutbox\hbox{\vrule
16823         \@height \arraystretch \@tempdima
16824         \@depth \arraystretch \dp \strutbox
16825         \@width \z@}%
16826     \let\@sharp##\let\protect\relax
16827     \begingroup
16828     \@mkpream{#2}%
16829     \tbl_count_table_cols:
16830     \xdef\LT@bchunk{%
16831         \tbl_inbetween_rows:
16832         \global\advance\c@LT@chunks\@ne
16833         \global\LT@rows\z@\setbox\z@\vbox\bgroup
16834         \LT@setprevdepth
16835         \tabskip\LTleft \noexpand\halign to\hsize\bgroup
16836         \tabskip\z@ \@arstrut
16837         \UseTaggingSocket{tbl/row/begin}%
16838         \tbl_init_cell_data_for_row:
16839         \@preamble \tabskip\LTright \cr}%

```



```

16840 \endgroup
16841 \expandafter\LT@nofcols\LT@bchunk&\LT@nofcols
16842 \LT@make@row
16843 \m@th\let\par\@empty
16844 \everycr{%
16845   \noalign{%
16846     \tbl_trace:n {--longtable-->~chunk-row:~ \the\LT@rows \space
16847       row:~ \the\g__tbl_row_int \space
16848       column:~ \the\g__tbl_col_int
16849   }
16850   \tbl_if_row_was_started:T
16851   {
16852     \UseTaggingSocket{tbl/row/end}
16853     \tbl_inbetween_rows:
16854   }
16855   \int_compare:nNnT \LT@rows < \LTchunksize
16856   { \tbl_gincr_row_count: } % next is row about to start
16857 }%
16858 }%
16859 \lineskip\z@\baselineskip\z@
16860 \LT@bchunk}
16861 \ExplSyntaxOff
16862 \def\LT@makecaption#1#2#3{%
16863   \LT@mcol\LT@cols c{\hbox to\z@{\hss\parbox[t]\LTcapwidth{%
16864     \reset@font
16865     \sbox\@tempboxa{\if@RTL\beginR\fi#1{#2: }#3\if@RTL\endR\fi}%
16866     \ifdim\wd\@tempboxa>\hsize
16867       #1{#2: }#3%
16868     \else
16869       \hbox to\hsize{\hfil\box\@tempboxa\hfil}%
16870     \fi
16871     \endgraf\vskip\baselineskip}%
16872   \hss}}}%
16873 \ApplyPatchCodeToPackage{caption}{%
16874   \renewcommand\LT@makecaption[3]{%
16875     \caption@LT@make{%
16876       \caption@LT@settype\LTcaptype
16877       \caption@LT@setup
16878       \caption@setautoposition{\ifcase\LT@rows t\else b\fi}%
16879       \caption@startrue#1\caption@starfalse
16880       \caption@prepare@stepcounter\LTcaptype
16881       \caption@begin\LTcaptype
16882       \caption@normalsize
16883       \vskip-\ht\strutbox
16884       \caption@ifdefined\FBifcapttop{%
16885         \let\caption@belowskip\@empty}{}%
16886       \caption@make@above
16887       \caption@@make{#2}{#3}\endgraf
16888       \caption@make@below
16889     \caption@end}}}%
16890 }
16891 \def\LT@startpbox#1{%
16892   \bgroup
16893   \color@begingroup

```



```

16894 \let\@footnotetext\LT@p@ftntext
16895 \let\@LTRfootnotetext\LT@p@LTRftntext
16896 \let\@RTLfootnotetext\LT@p@RTLftntext
16897 \setlength\hspace{#1}%
16898 \arrayparboxrestore
16899 \everypar{%
16900 \vrule \@height \ht\@arstrutbox \@width \z@
16901 \everypar{}}%
16902 }
16903 \long\def\LT@p@LTRftntext#1{%
16904 \edef\@tempa{\the\LT@p@ftn\noexpand\LTRfootnotetext[\the\c@footnote]}%
16905 \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
16906 \long\def\LT@p@RTLftntext#1{%
16907 \edef\@tempa{\the\LT@p@ftn\noexpand\RTLfootnotetext[\the\c@footnote]}%
16908 \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
16909 \def\LT@output{%
16910 \ifnum\outputpenalty <-\@Mi
16911 \ifnum\outputpenalty > -\LT@end@pen
16912 \LT@err{floats and marginpars not allowed in a longtable}\@ehc
16913 \else
16914 \setbox\z@\vbox{\unvbox\@cclv}%
16915 \ifdim \ht\LT@lastfoot>\ht\LT@foot
16916 \dimen@ \pagegoal
16917 \advance\dimen@ \ht\LT@foot
16918 \advance\dimen@ -\ht\LT@lastfoot
16919 \ifdim\dimen@<\ht\z@
16920 \setbox\@cclv\vbox{\unvbox\z@\copy\LT@foot\vss}%
16921 \@makecol
16922 \@outputpage
16923 \global\vsizel\colroom
16924 \setbox\z@\vbox{\box\LT@head}%
16925 \fi
16926 \fi
16927 \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
16928 \unvbox\z@\box\ifvoid\LT@lastfoot\LT@foot\else\LT@lastfoot\fi
16929 \UseTaggingSocket{tbl/longtable/foot}
16930 \if@RTLtab\egroup\endR\egroup\fi
16931 \fi
16932 \else
16933 \setbox\@cclv\vbox{%
16934 \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
16935 \unvbox\@cclv\copy\LT@foot\vss
16936 \if@RTLtab\egroup\endR\egroup\fi
16937 }%
16938 \UseTaggingSocket{tbl/longtable/foot}
16939 \@makecol
16940 \@outputpage
16941 \global\vsizel\colroom
16942 \copy\LT@head\nobreak
16943 \fi}

```

112 File `lscape-xetex-bidi.def`

16944 \ProvidesFile{lscape-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for lscape package for



```

16945 \RequirePackage{graphicx}
16946 \bidi@patchcmd{\LS@rot}{\rotatebox{90}{\box\@outputbox}}{%
16947   \if@RTL
16948     \rotatebox[origin=br]{-90}{\box\@outputbox}%
16949   \else
16950     \rotatebox{90}{\box\@outputbox}%
16951   \fi
16952 }{}{}
16953
16954 \g@addto@macro{\landscape}{%
16955   \if@bidi@csdef{bidi@columnwidth}{%
16956     \bidi@columnwidth\columnwidth
16957   }{}%
16958   \let\bidi@left@footnoterule\left@footnoterule
16959   \let\bidi@right@footnoterule\right@footnoterule
16960   \def\left@footnoterule{%
16961     \if@RTL
16962       \bidi@right@footnoterule
16963     \else
16964       \bidi@left@footnoterule
16965     \fi
16966   }%
16967   \def\right@footnoterule{%
16968     \if@RTL
16969       \bidi@left@footnoterule
16970     \else
16971       \bidi@right@footnoterule
16972     \fi
16973   }%
16974 }

```

113 File mathtools-xetex-bidi.def

```

16975 \ProvidesFile{mathtools-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for mathtools packa
16976 \RequirePackage{graphicx}
16977 \MHInternalSyntaxOn
16978 \def\MT_define_tagform:nwnn #1[#2]#3#4{
16979   \@namedef{MT_tagform_#1:n}##1
16980     {\maketag@@@{\if@nonlatin\beginR\fi#3\kern\z@\ignorespaces#2{##1}\unskip\@italiccorr#4}
16981 }
16982 \renewtagform{default}{({})}
16983 \MHInternalSyntaxOff

```

114 File mdframed-xetex-bidi.def

```

16984 \ProvidesFile{mdframed-xetex-bidi.def}[2013/09/22 v0.4 bidi adaptations for mdframed package
16985 \newif\if@bidi@mdf@RTL
16986 \def\mdf@lrbox#1{%
16987   \mdf@patchamsthm%patch amsthm
16988   \if@RTL\@bidi@mdf@RTLtrue\fi%
16989   \@RTLfalse%
16990   \setbox#1\ vbox\bgroup%
16991     \color@begingroup%
16992     \if@bidi@mdf@RTL\@RTLtrue\fi%

```



```

16993 \mdf@horizontalmargin@equation%
16994 \columnwidth=\hsize%
16995 \textwidth=\hsize%
16996 \let\if@nobreak\iffalse%
16997 \let\if@noskipsec\iffalse%
16998 \let\par\@par%
16999 \let\-\@dischyph%
17000 \let'\@acci\let`\@accii\let=\@acciii%
17001 \parindent\z@ \parskip\z@skip%
17002 \linewidth\hsize%
17003 \@totalleftmargin\z@%
17004 \leftskip\z@skip \rightskip\z@skip \@rightskip\z@skip%
17005 \parfillskip\@flushglue \lineskip\normallineskip%
17006 \baselineskip\normalbaselineskip%
17007 %% \sloppy%
17008 \let\\\@normalcr%
17009 \mdf@par@local%New feature to restore parskip/parindent local in save box
17010 \ifbool{mdf@suppressfirstparskip}{\vspace*{-\parskip}}{}%
17011 \@afterindentfalse%
17012 %\@afterheading%
17013 }
17014 \renewrobustcmd\mdfframedtitleenv[1]{%
17015 \mdf@lrbox{\mdf@frametitlebox}%
17016 \mdf@frametitlealignment%
17017 \leavevmode{\color{\mdf@frametitlefontcolor}%
17018 \normalfont\mdf@frametitlefont{#1}
17019 \ifbool{mdf@ignorelastdescenders}%
17020 {%
17021 \par\strut\par
17022 \unskip\unskip\setbox0=\lastbox
17023 \vspace*{\dimexpr\ht\strutbox-\baselineskip\relax}%
17024 }{}}%
17025 \par\unskip\ifvmode\nointerlineskip\hrule \@height\z@ \@width\hsize\fi%%
17026 \endmdf@lrbox\relax%
17027 \mdf@ignorevbadness%
17028 \setbox\mdf@frametitlebox=\vbox{\unvbox\mdf@frametitlebox}%
17029 \mdfframetitleboxwidth=\wd\mdf@frametitlebox\relax%
17030 \mdfframetitleboxheight=\ht\mdf@frametitlebox\relax%
17031 \mdfframetitleboxdepth=\dp\mdf@frametitlebox\relax%
17032 \mdfframetitleboxtotalheight=\dimexpr
17033 \ht\mdf@frametitlebox
17034 +\dp\mdf@frametitlebox%
17035 +\mdf@frametitleaboveskip@length
17036 +\mdf@frametitlebelowskip@length
17037 \relax%
17038 }
17039
17040 \renewrobustcmd*\mdf@footnoteoutput{%
17041 \ifvoid\@mpfootins\else%
17042 \nobreak%
17043 \vskip\mdf@footnotedistance@length%
17044 \normalcolor%
17045 \bidi@mpfootnoterule%
17046 \unvbox\@mpfootins%

```



```

17047     \fi%
17048 }
17049
17050
17051 \renewrobustcmd*\mdf@footnoteinput{%
17052     \def\@mpfn{mpfootnote}%
17053     \def\thempfn{\thempfootnote}%
17054     \c@mpfootnote\z@%
17055     \let\@footnotetext\@mpfootnotetext%
17056     \let\@LTRfootnotetext\@mpLTRfootnotetext%
17057     \let\@RTLfootnotetext\@mpRTLfootnotetext%
17058 }

```

115 File media9-xetex-bidi.def

```

17059 \ProvidesFile{media9-xetex-bidi.def}[2025/01/03 v0.1 bidi adaptations for media9 package for
17060 \RequirePackage{bidi-media9}

```

116 File bidi-media9.sty

```

17061 \ProvidesExplPackage{bidi-media9}{2022/02/18}{0.4}
17062 {bidi fixes for media9 package for the XeTeX engine}
17063
17064 \keys_define:nn{media9/mbtn}{
17065     draft .code:n = {},
17066     final .code:n = {},
17067
17068     tooltip .tl_gset_x:N = \g_mix_tooltip_tl,
17069     tooltip .value_required:n = {true},
17070
17071     overface .code:n = {
17072         \sbox\l_mix_poster_box{
17073             \bool_if:NTF\g_pbs_kscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
17074             \mix_pdfxform:n{\l_mix_poster_box}
17075             \tl_gset:Nx\g_mix_overbtn_tl{\mix_pdflastxform:}
17076         },
17077         overface .value_required:n = {true},
17078
17079     downface .code:n = {
17080         \sbox\l_mix_poster_box{
17081             \bool_if:NTF\g_pbs_kscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
17082             \mix_pdfxform:n{\l_mix_poster_box}
17083             \tl_gset:Nx\g_mix_downbtn_tl{\mix_pdflastxform:}
17084         },
17085         downface .value_required:n = {true},
17086
17087     3Dgotoview .code:n = {
17088         \tl_set:Nx\l_tmpa_tl{#1} %extract ref
17089         \regex_replace_once:nnN{([~:~]+)??.*}{\1}\l_tmpa_tl
17090         \tl_trim_spaces:N\l_tmpa_tl
17091         \tl_if_exist:cTF{ann@\l_tmpa_tl}{
17092             \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
17093                 \tl_set:Nx\l_tmpb_tl{#1} %extract idx
17094                 \regex_replace_once:nnN{[~:~]+:~?}{\1}\l_tmpb_tl

```




```

17095 \tl_trim_spaces:N\l_tmpb_tl
17096 \tl_if_blank:VF\l_tmpb_tl{
17097   \regex_match:nVTF{^[DFLNP]$}\l_tmpb_tl{
17098     \tl_set:Nx\l_mix_vidx_tl{/ \l_tmpb_tl}
17099   }{
17100     \regex_match:nVTF{^\d+$}\l_tmpb_tl{
17101       \tl_set:Nx\l_mix_vidx_tl{~ \l_tmpb_tl}
17102     }{
17103       \regex_replace_once:nnN{^\(s*\)}\l_tmpb_tl
17104       \regex_replace_once:nnN{s*\)}\l_tmpb_tl
17105       \tl_set:Nx\l_mix_vidx_tl{~ (\l_tmpb_tl)}
17106     }
17107   }
17108 }
17109 \mix_pdfobj:nnn{}{dict}{
17110   /S/JavaScript/JS~(
17111     if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17112     if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
17113       annotRM['\l_tmpa_tl']=
17114         this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
17115     }
17116     annotRM['\l_tmpa_tl'].activated=true;
17117   )
17118   \tl_if_blank:VF\l_tmpb_tl{
17119     /Next~<<
17120     /S/GoTo3DView
17121     /TA~\tl_use:c{ann@\l_tmpa_tl}
17122     /V\l_mix_vidx_tl
17123     >>
17124   }
17125 }
17126 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
17127 }
17128 }{
17129   \msg_warning:nnx{media9}{undefined~reference}{\l_tmpa_tl}
17130   \cs_if_exist:NF\g_mix_refundefwarned_tl{
17131     \tl_new:N\g_mix_refundefwarned_tl
17132     \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
17133   }
17134 }
17135 },
17136 3Dgotoview .value_required:n = {true},
17137
17138 mediacommand .code:n = {
17139   \tl_set:Nx\l_tmpa_tl{#1}
17140   \regex_replace_once:nnN{([~:~]+)??.*}{\1}\l_tmpa_tl %extract ref
17141   \tl_trim_spaces:N\l_tmpa_tl
17142   \tl_if_exist:cTF{ann@\l_tmpa_tl}{
17143     \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
17144       \tl_set:Nx\l_tmpb_tl{#1}
17145       \regex_replace_once:nnN{[~:~]+\?:}{\1}\l_tmpb_tl
17146       \tl_trim_spaces:N\l_tmpb_tl
17147       \regex_replace_all:nnN{^\(\\$)}\l_tmpb_tl
17148       \tl_set:Nx\l_mix_cmd_tl{

```



```

17149     \exp_after:wN\mix_separate_cmd_from_actn:w\l_tmpb_tl[]\q_stop}
17150   \tl_trim_spaces:N\l_mix_cmd_tl
17151   \tl_set:Nx\l_mix_arg_tl{
17152     \exp_after:wN\mix_separate_arg_from_actn:w\l_tmpb_tl[]\q_stop}
17153   \tl_trim_spaces:N\l_mix_arg_tl
17154   \mix_pdfobj:nnn{}{dict}{
17155     /S/JavaScript/JS~(
17156       if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17157       if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
17158         annotRM['\l_tmpa_tl']=
17159           this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
17160       }
17161       annotRM['\l_tmpa_tl'].activated=true;
17162     )
17163   \tl_if_blank:VF\l_mix_cmd_tl{
17164     /Next~<<
17165     /S/RichMediaExecute
17166     /TA~\tl_use:c{ann@\l_tmpa_tl}
17167     /TI~\tl_use:c{main@\l_tmpa_tl}
17168     /CMD~<<
17169     /C~(\l_mix_cmd_tl)
17170     \tl_if_blank:VF\l_mix_arg_tl{
17171       /A~[\l_mix_arg_tl]
17172     }
17173     >>
17174   >>
17175   }
17176 }
17177 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
17178 }
17179 }{
17180   \msg_warning:nnx{media9}{undefined~reference}{\l_tmpa_tl}
17181   \cs_if_exist:NF\g_mix_refundefwarned_tl{
17182     \tl_new:N\g_mix_refundefwarned_tl
17183     \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
17184   }
17185 }
17186 },
17187 mediacommand .value_required:n = {true},
17188
17189 jsaction .code:n = {
17190   \tl_set:Nx\l_tmpa_tl{#1}
17191   \regex_match:nVTF{^[^{}:]+.*$}\l_tmpa_tl{
17192     \regex_replace_once:nnN{([{}:]+):??.*}{\1}\l_tmpa_tl %extract ref
17193     \tl_trim_spaces:N\l_tmpa_tl
17194   }{\tl_clear:N\l_tmpa_tl}
17195   \tl_set:Nx\l_tmpb_tl{#1}
17196   \tl_if_blank:VF\l_tmpa_tl{
17197     \tl_if_exist:cF{ann@\l_tmpa_tl}{
17198       \msg_warning:nnx{media9}{undefined~reference}{\l_tmpa_tl}
17199       \cs_if_exist:NF\g_mix_refundefwarned_tl{
17200         \tl_new:N\g_mix_refundefwarned_tl
17201         \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
17202       }

```



```

17203     }
17204     \regex_replace_once:nnN{[^\:]+\:}{\l_tmpb_tl
17205   }
17206   \tl_set:Nx\l_tmpb_tl{\exp_after:wN\use:n\l_tmpb_tl}
17207   \tl_trim_spaces:N\l_tmpb_tl
17208   \tl_if_blank:VF\l_tmpb_tl{
17209     \mix_pdfobj:nnn{}{dict}{
17210       /S/JavaScript/JS~(
17211         try{\l_tmpb_tl}catch(e){console.show();console.println(e)}}}
17212   \bool_lazy_and:nnT{
17213     \tl_if_exist_p:c{ann@\l_tmpa_tl}
17214   }{
17215     !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
17216   }{
17217     \mix_pdfobj:nnn{}{dict}{
17218       /S/JavaScript/JS~(
17219         if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17220         if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
17221           annotRM['\l_tmpa_tl']=
17222             this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
17223         }
17224         annotRM['\l_tmpa_tl'].activated=true;
17225       )
17226       \tl_if_blank:VF\l_tmpb_tl{/Next~\mix_pdflastobj:}
17227     }
17228   }
17229   \bool_if:nnT{
17230     \bool_lazy_and_p:nn{
17231       \tl_if_exist_p:c{ann@\l_tmpa_tl}
17232     }{
17233       !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
17234     }
17235     || !\tl_if_blank_p:V\l_tmpb_tl
17236   }{
17237     \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
17238   }
17239 },
17240 jsaction .value_required:n = {true},
17241
17242 unknown .code:n = {
17243   \msg_error:nnx{media9}{unknown~option}{\l_keys_key_tl}
17244 }
17245 }
17246
17247 \RenewDocumentCommand\includemedia{O{}mm}{%#1 options, #2 text/image #3 media file
17248   \mix_uriend:
17249   \group_begin:
17250   \mix_beginLTR:
17251   \mode_leave_vertical:
17252   %empty stream as appearance dummy
17253   \cs_if_exist:NF\g_mix_appearance_tl{
17254     \hbox_set:Nn\l_mix_poster_box{\phantom{\rule{1pt}{1pt}}}
17255     \mix_pdfxform:n{\l_mix_poster_box}
17256     \tl_gset:Nx\g_mix_appearance_tl{\mix_pdflastxform:}

```



```

17257 }
17258 \mix_reset:
17259 \mix_uribegin: %treat URI characters correctly
17260 \keys_set:nn{media9/user}{#1}
17261 \mix_uriend:
17262 \tl_greplace_all:Nnn\g_mix_flashvars_tl{~&}{&}
17263 \tl_greplace_all:Nnn\g_mix_flashvars_tl{&~}{&}
17264 \tl_greplace_all:Nnn\g_mix_flashvars_tl{~={}{=}
17265 \tl_greplace_all:Nnn\g_mix_flashvars_tl{~}{=}
17266 \tl_gtrim_spaces:N\g_mix_flashvars_tl
17267
17268 \cs_if_exist:NT\Ginput@path{\cs_set_eq:NN\input@path\Ginput@path}
17269
17270 %\hbox_set:Nn\l_mix_poster_box{\group_begin:#2\group_end:}
17271 %\hbox_set:Nn\l_mix_poster_box{#2}
17272 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
17273 \mix_scale:n{\l_mix_poster_box}
17274 \bool_if:nT{
17275   \dim_compare_p:n{\g_mix_tt_tl=\c_zero_dim}||
17276   \dim_compare_p:n{\g_mix_wd_tl=\c_zero_dim}
17277 }{
17278   \tl_gset:Nn\g_mix_usrpbtn_tl{none}
17279 }
17280 \bool_if:NTF\g_mix_usrdraft_bool{
17281   \tl_if_empty:NF\g_mix_usrlabel_tl{
17282     \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{draft}
17283   }
17284   \tl_if_blank:oTF{#2}{
17285     \mix_uribegin: %treat URI characters correctly
17286     \mix_draftbox:n{\tl_to_str:n{#3}}
17287     \mix_uriend:
17288   }{
17289     \hbox_to_wd:nn{\g_mix_wd_tl}{
17290       \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl
17291       \box_use:N\l_mix_poster_box\hss
17292     }
17293   }
17294 }{
17295   \bool_if:nF{\str_if_eq_p:Vn\g_mix_usrpbtn_tl{none}}{
17296     %attach script that switches off play button overlay upon activation
17297     \mix_pdfobj:nnn{}{stream}{
17298       {}{
17299         var~ocgs=host.getOCGs(host.pageNum);
17300         for(var~i=0;i<ocgs.length;i++){
17301           if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
17302             ocgs[i].state=false;
17303           }
17304         }
17305       }
17306     }
17307     \mix_pdfobj:nnn{}{dict}{
17308       /Type/Filespec/EF~<</F~\mix_pdflastobj:>>/F~(btnoff)%/UF~(btnoff)
17309     }
17310     \tl_gset:Nx\g_mix_assets_tl{(btnoff)~\mix_pdflastobj:}

```



```

17311     \tl_set:Nx\l_mix_scripts_tl{~\mix_pdflastobj:~}
17312     %enforce plain playbutton overlay for XeTeX
17313     \sys_if_engine_xetex:T{\tl_gset:Nn\g_mix_usrpbtn_tl{plain}}
17314   }
17315   %embed main asset
17316   \mix_uribegin:
17317   \mix_embedasset:n{#3}
17318   \bool_if:nTF{
17319     \str_if_eq_p:Vn\l_mix_ext_tl{prc}||\str_if_eq_p:Vn\l_mix_ext_tl{u3d}
17320   }{
17321     \bool_gset_true:N\g_mix_iiid_bool
17322     \tl_gset:Nn\g_mix_mainassetsub_tl{3D}
17323   }{
17324     \str_case_e:nnF{\l_mix_base_tl}{
17325       {APlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
17326       {AudioPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
17327       {VPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
17328       {VideoPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
17329       {StrobeMediaPlayback}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
17330     }\tl_gset:Nn\g_mix_mainassetsub_tl{Flash}}
17331   }
17332   \tl_gset:Nx\g_mix_mainasset_tl{~\g_mix_lastasset_tl}
17333   \mix_uriend:
17334   %secondary assets (added by addresource)
17335   \seq_map_function:NN\g_mix_res_seq\mix_embedasset:n
17336   \seq_map_inline:Nn\g_mix_script_seq{
17337     \mix_embedasset:n{##1}
17338     \tl_put_right:Nx\l_mix_scripts_tl{~\g_mix_lastasset_tl}
17339   }
17340   %attach 3D calculation script
17341   \bool_if:nT{\g_mix_iiid_bool && \g_mix_iiidcalc_bool}{
17342     \mix_embedasset:n{3Dmenu.js}
17343     \tl_put_left:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl~}
17344   }
17345   %create 3D views from file (option 3Dviews)
17346   \bool_if:nT{\g_mix_iiid_bool && !(\tl_if_blank_p:V\g_mix_vfile_tl)}{
17347     \tl_set:Nn\l_mix_level_tl{-1}
17348     \int_zero:N\l_mix_viewcnt_int
17349     \int_zero:N\l_mix_lineno_int
17350
17351     \ior_open:Nn\l_mix_vfile_stream{\g_mix_vfile_tl}
17352     \ior_map_inline:Nn\l_mix_vfile_stream{
17353       \int_incr:N\l_mix_lineno_int
17354       \keys_set:nn{media9/views}{##1} %process input line
17355     }
17356     \ior_close:N\l_mix_vfile_stream
17357   }
17358   \bool_if:nT{ %create default 3D view if required
17359     \g_mix_iiid_bool &&
17360     (\g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl)
17361   }{
17362     \tl_set_eq:NN\l_mix_bg_tl\g_mix_opt_bg_tl
17363     \tl_set_eq:NN\l_mix_ls_tl\g_mix_opt_ls_tl
17364     \tl_set_eq:NN\l_mix_rm_tl\g_mix_opt_rm_tl

```



```

17365 \tl_set_eq:NN\l_mix_psob_tl\g_mix_opt_psob_tl
17366 \tl_set_eq:NN\l_mix_coo_tl\g_mix_opt_coo_tl
17367 \tl_set_eq:NN\l_mix_ctoc_tl\g_mix_opt_ctoc_tl
17368 \tl_set_eq:NN\l_mix_ciiw_tl\g_mix_opt_ciiw_tl
17369
17370 \fp_set_eq:NN\l_mix_roo_fp\g_mix_opt_roo_fp
17371 \fp_set_eq:NN\l_mix_aac_fp\g_mix_opt_aac_fp
17372 \fp_set_eq:NN\l_mix_oscale_fp\g_mix_opt_oscale_fp
17373 \fp_set_eq:NN\l_mix_roll_fp\g_mix_opt_roll_fp
17374
17375 \bool_set_eq:NN\l_mix_ciiw_bool\g_mix_opt_ciiw_bool
17376 \bool_set_eq:NN\l_mix_iiidortho_bool\g_mix_opt_iiidortho_bool
17377 \tl_clear:N\l_mix_naarray_tl
17378
17379 \bool_if:NF\l_mix_ciiw_bool{
17380   \tl_set:Nx\l_mix_args_tl{\l_mix_coo_tl\space\l_mix_ctoc_tl\space}
17381   \exp_after:wN\mix_calc_ciiw:w\l_mix_args_tl\q_stop
17382 }
17383
17384 \tl_clear:N\l_mix_naarray_tl
17385 \tl_clear:N\l_mix_saarray_tl
17386 \tl_set_eq:NN\l_mix_nr_tl\g_mix_nrdflt_tl
17387
17388 \mix_view:n{Default}
17389 \tl_set:Nx\l_mix_dfltview_tl{\mix_pdflastobj:}
17390
17391 }
17392 \mix_pdfobj:nnn{}{dict}{
17393   /Type/RichMediaInstance
17394   /Subtype/\g_mix_mainassetsub_tl
17395   /Asset~\g_mix_mainasset_tl
17396   \bool_if:NF\g_mix_iiid_bool{
17397     /Params~<<
17398     /Binding\str_if_eq:VnTF\g_mix_transp_tl{true}{
17399       /Foreground
17400     }{
17401       /Background
17402     }
17403     \tl_if_blank:VF\g_mix_flashvars_tl{
17404       /FlashVars~(\g_mix_flashvars_tl)
17405     }
17406     >>
17407   }
17408 }
17409 \tl_if_empty:NF\g_mix_usrlabel_tl{
17410   \mix_keytoaux_now:nn{main@\g_mix_usrlabel_tl}{\mix_pdflastobj:}
17411 }
17412 \mix_pdfobj:nnn{}{dict}{
17413   /Type/RichMediaConfiguration
17414   /Subtype/\g_mix_mainassetsub_tl
17415   /Instances~[\mix_pdflastobj:]
17416 }
17417 \mix_pdfobj:nnn{}{dict}{
17418   /Type/RichMediaContent

```



```

17419 /Assets~<</Names~[\g_mix_assets_tl]>>
17420 /Configurations~[\mix_pdflastobj:]
17421 \bool_if:nT{
17422   \g_mix_iiid_bool && !(\tl_if_empty_p:V\l_mix_iiidviewarray_tl)
17423 }{
17424   /Views~[\l_mix_iiidviewarray_tl]
17425 }
17426 }
17427 \tl_set:Nx\l_mix_content_tl{\mix_pdflastobj:}
17428 \bool_if:nT{
17429   \g_mix_iiid_bool && \str_if_eq_p:Vn\g_mix_playtpe_tl{Oscillating}
17430 }{
17431   \tl_gset:Nx\g_mix_playcnt_tl{\int_eval:n{\g_mix_playcnt_tl*2}}
17432 }
17433 %determine floating window size
17434 \bool_if:NT\g_mix_opt_windowed_bool{
17435   \exp_after:wN\mix_parse_winsizearg:w\g_mix_winsize_tl\q_stop
17436 }
17437 \mix_pdfobj:nnn{}{dict}{
17438   /Activation~<<
17439     /Condition\g_mix_act_tl
17440     \bool_if:nT{
17441       \g_mix_iiid_bool &&
17442       !(\str_if_eq_p:Vn\g_mix_playtpe_tl{None})
17443     }{%seems to work only with 3D content
17444       /Animation~<<
17445         /Subtype/\g_mix_playtpe_tl
17446         /PlayCount~\g_mix_playcnt_tl
17447         /Speed~\g_mix_playspd_tl
17448       >>
17449     }
17450     \bool_if:nT{
17451       \g_mix_iiid_bool && (
17452         \g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl
17453       )
17454     }{/View~\l_mix_dfltview_tl}
17455     /Presentation~<<
17456       /Transparent~\g_mix_transp_tl
17457       \bool_if:NTF\g_mix_opt_windowed_bool{
17458         /Style/Windowed
17459         /Window~<<
17460           /Width~<</Default~\tl_mix_fltd>>
17461           /Height~<</Default~\tl_mix_fltht>>
17462           /Position~<<
17463             /HOffset~0/VOffset~0
17464             \str_case_e:nnF{\g_mix_winpos_tl}{
17465               {tl}{/VAlign/Near/HAlign/Near}
17466               {cl}{/VAlign/Center/HAlign/Near}
17467               {bl}{/VAlign/Far/HAlign/Near}
17468               {bc}{/VAlign/Far/HAlign/Center}
17469               {br}{/VAlign/Far/HAlign/Far}
17470               {cr}{/VAlign/Center/HAlign/Far}
17471               {tr}{/VAlign/Near/HAlign/Far}
17472               {tc}{/VAlign/Near/HAlign/Center}

```



```

17473         }{/Halign/Center/VAlign/Center}
17474     >>
17475     >>
17476     }{
17477         /Style/Embedded
17478     }
17479     \bool_if:NTF\g_mix_iiid_bool{
17480         /Toolbar~\g_mix_tools_tl
17481         /NavigationPane~\g_mix_nav_tl
17482     }{
17483         /PassContextClick~\g_mix_contextclick_tl
17484     }
17485     >>
17486     \tl_if_blank:VF\l_mix_scripts_tl{/Scripts~[\l_mix_scripts_tl]}
17487     >>
17488     /Deactivation~<</Condition\g_mix_deact_tl>>
17489 }
17490 \tl_set:Nx\l_mix_settings_tl{\mix_pdflastobj:}
17491 \tl_if_empty:NF\g_mix_usrlabel_tl{
17492     \tl_gset_eq:NN\g_mix_label_tl\g_mix_usrlabel_tl
17493 }
17494 % #1:width, #2:height, #3:depth, #4:content (key-value)
17495 \mix_pdfannot:nnnn{\g_mix_wd_tl}{\g_mix_ht_tl}{\g_mix_dp_tl}{
17496     /Subtype/RichMedia
17497     /F~4
17498     /BS~<</W~0/S/S>>
17499     /Contents~(media~embedded~by~media9~[\g_mix_version_tl~(\g_mix_date_tl)])
17500     /NM~(\g_mix_label_tl)
17501     /AP~<</N~\g_mix_appearance_tl>>
17502     /RichMediaSettings~\l_mix_settings_tl
17503     /RichMediaContent~\l_mix_content_tl
17504 }
17505 \tl_if_empty:NF\g_mix_usrlabel_tl{
17506     \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{\mix_pdflastann:}
17507     \mix_keytoaux_shipout:nn{page@\g_mix_usrlabel_tl}{
17508         \noexpand\the\g@mix@page@int}
17509 }
17510 \mix_pdfobj:nnn{}{dict}{
17511     /S/JavaScript/JS~(
17512     try{
17513         if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17514         if(typeof(annotRM['\g_mix_label_tl'])=='undefined'){
17515             annotRM['\g_mix_label_tl']=
17516                 this.getAnnotRichMedia(this.pageNum,'\g_mix_label_tl');
17517         }
17518         \str_if_eq:eeF{\g_mix_usrpbtn_tl}{none}{
17519             if(typeof(ocgBtn\int_use:N\g_mix_rmcnt_int)=='undefined'){
17520                 var~ocgs=this.getOCGs(this.pageNum);
17521                 for(var~i=0;i<ocgs.length;i++){
17522                     if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
17523                         var~ocgBtn\int_use:N\g_mix_rmcnt_int=ocgs[i];
17524                     }
17525                 }
17526             }
17527         }
17528     }

```




```

17527         if(
17528             !annotRM['\g_mix_label_tl'].activated&&(
17529                 app.viewerType=='Reader' ||
17530                 app.viewerType=='Exchange' ||
17531                 app.viewerType=='Exchange-Pro'
17532             )&&app.viewerVersion>=9
17533         ){
17534             ocbBtn\int_use:N\g_mix_rmcnt_int.state=true;
17535         }
17536     }
17537 }catch(e){}
17538 this.dirty=false;
17539 )
17540 }
17541 \mix_pdfannot:nnnn{Opt}{Opt}{Opt}{
17542     /Subtype/Widget
17543     /FT/Btn/Ff~65537/F~2
17544     /BS~<</W~0>>
17545     /T~(fd@\g_mix_label_tl)
17546     /AA~<</PO~\mix_pdflastobj:~/PV~\mix_pdflastobj:>>
17547 }
17548 \mix_appendtofields:n{\mix_pdflastann:}
17549 \hbox_overlap_right:n{\box_use:N\l_mix_poster_box}
17550 \str_if_eq:eeTF{\g_mix_usrpbtn_tl}{none}{
17551     \hbox_to_wd:nn{\g_mix_wd_tl}{
17552         \vrule-width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl\hss
17553     }
17554 }{%insert play button overlay
17555     \mix_insert_btnocg: %create OCG
17556     \cs_gset_eq:Nc\mix_pbtn:NN{g@mix@pbtn@\g_mix_usrpbtn_tl @tl}
17557     \group_begin:
17558     \cs_if_exist:NT\textdir{\textdir TLT}
17559     \sbox\l_mix_pbtn_box{\mix_pbtn:NN\g_mix_wd_tl\g_mix_tt_tl}
17560     \box_move_down:nn{\g_mix_dp_tl}{
17561         \hbox_to_wd:nn{\g_mix_wd_tl}{
17562             \vbox_to_ht:nn{\g_mix_tt_tl}{
17563                 \vss
17564                 \ocgbase_oc_bdc:n{\g_mix_btnocg_tl}
17565                 \box_use:N\l_mix_pbtn_box
17566                 \ocgbase_oc_emc:
17567             }
17568         }
17569     }
17570     \group_end:
17571 }
17572 \int_gincr:N\g_mix_rmcnt_int
17573 }
17574 \mix_endLTR:
17575 \group_end:
17576 }
17577 \tl_set_eq:NN\l_mix_includemedia_tl\includemedia
17578 \tl_set:Nn\includemedia{\mix_uribegin:\l_mix_includemedia_tl}
17579
17580 \RenewDocumentCommand\mediabutton{0{}m}{%#1 options, #2 normal button text

```



```

17581 \mix_uriend:
17582 \group_begin:
17583 \mix_beginLTR:
17584 \mode_leave_vertical:
17585 %reset various variables
17586 \tl_gclear:N\g_mix_overbtn_tl
17587 \tl_gclear:N\g_mix_downbtn_tl
17588 \tl_gclear:N\g_mix_btnactions_tl
17589 \tl_gclear:N\g_mix_tooltip_tl
17590 %process options
17591 \bool_gset_eq:NN\g_mix_btndraft_bool\g_mix_pkgdraft_bool
17592 \mix_uribegin: %treat URI characters correctly
17593 \keys_set:nn{media9/mbtndraft}{#1} %detect draft/final on first pass
17594 \bool_if:NF\g_mix_btndraft_bool{\keys_set:nn{media9/mbtn}{#1}}
17595 \mix_uriend:
17596 %normal button appearance
17597 %\hbox_set:Nn\l_mix_poster_box{#2}
17598 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
17599 \tl_set:Nx\width {\dim_use:N\box_wd:N\l_mix_poster_box}
17600 \tl_set:Nx\height{\dim_use:N\box_ht:N\l_mix_poster_box}
17601 \tl_set:Nx\depth {\dim_use:N\box_dp:N\l_mix_poster_box}
17602 \bool_if:NTF\g_mix_btndraft_bool{\box_use:N\l_mix_poster_box}{
17603   \sbox\l_mix_poster_box{\bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{
17604     \box_use:N\l_mix_poster_box}}{\box_use:N\l_mix_poster_box}}
17605   \mix_pdfxform:n{\l_mix_poster_box}
17606   \tl_set:Nx\g_mix_normalbtn_tl{\mix_pdflastxform:}
17607   %insert widget annotation
17608   \mix_pdfannot:nnnn{\width}{\height}{\depth}{
17609     /Subtype/Widget
17610     /T~(mbtn@\int_use:N\g_mix_mbtncnt_int)
17611     \tl_if_empty:NF\g_mix_tooltip_tl{/TU~(\g_mix_tooltip_tl)}
17612     /FT/Btn/Ff~65536
17613     \tl_if_empty:NF\g_mix_downbtn_tl{/H/I}{/H/P}
17614     /AP~<<
17615     /N~\g_mix_normalbtn_tl
17616     \tl_if_empty:NF\g_mix_overbtn_tl{/R~\g_mix_overbtn_tl}
17617     \tl_if_empty:NF\g_mix_downbtn_tl{/D~\g_mix_downbtn_tl}
17618     >>
17619     /MK~<<
17620     /TP~1~/IF~<</S/A/FB~true/A~[0.0~0.0]>>
17621     /I~\g_mix_normalbtn_tl
17622     \tl_if_empty:NF\g_mix_overbtn_tl{/RI~\g_mix_overbtn_tl}
17623     \tl_if_empty:NF\g_mix_downbtn_tl{/IX~\g_mix_downbtn_tl}
17624     >>
17625     /A~<<
17626     /S/JavaScript/JS~(app.focusRect=false;)
17627     %sequence of actions to perform
17628     \tl_if_empty:NF\g_mix_btnactions_tl{/Next~[\g_mix_btnactions_tl]}
17629     >>
17630   }
17631   \mix_appendtofields:n{\mix_pdflastann:}
17632   \hbox_to_wd:nn{\width}{
17633     \vrule~width~\c_zero_dim~height~\height~depth~\depth\hss
17634   }

```



```

17635 \int_gincr:N\g_mix_mbtncnt_int
17636 }
17637 \mix_endLTR:
17638 \group_end:
17639 }
17640 \tl_set_eq:NN\l_mix_mediabutton_tl\mediabutton
17641 \tl_set:Nn\mediabutton{\mix_uribegin:\l_mix_mediabutton_tl}
17642

```

117 File memoir-xetex-bidi.def

```

17643 \ProvidesFile{memoir-xetex-bidi.def}[2025/01/03 v0.7 bidi adaptations for memoir class for X
17644 \renewcommand{\keepthetitle}{%
17645 \@bsmtitleempty
17646 \global\let\thanks\relax
17647 \global\let\LTRthanks\relax
17648 \global\let\RTLthanks\relax
17649 \global\let\and\relax
17650 \global\let\andnext\relax
17651 \global\let\@thanks\@empty
17652 \global\let\@title\@empty
17653 \global\let\@author\@empty
17654 \global\let\@date\@empty}
17655 \renewcommand{\maketitle}{\par
17656 \begingroup
17657 \@bsmarkseries
17658 \def\@makefnmark{\@textsuperscript{%
17659 \normalfont\@bsthanksheadpre \tamark \@bsthanksheadpost}}}%
17660 \long\def\@makefntext##1{\makethanksmark ##1}
17661 \if@twocolumn
17662 \ifnum \col@number=\@one
17663 \@maketitle
17664 \else
17665 \twocolumn[\@maketitle]%
17666 \fi
17667 \else
17668 \ifdim\pagetotal>\z@
17669 \newpage
17670 \fi
17671 \global\@topnum\z@
17672 \@maketitle
17673 \fi
17674 \thispagestyle{title}\@thanks
17675 \endgroup
17676 \@bscontmark % \setcounter{footnote}{0}%
17677 }
17678 \renewcommand*{\memRTLleftskip}{\if@RTL\rightskip\else\leftskip\fi}
17679 \renewcommand*{\memRTLrightskip}{\if@RTL\leftskip\else\rightskip\fi}
17680 \renewcommand*{\memRTLleftskip}{\if@RTL\leftskip\else\leftskip\fi}
17681 \renewcommand*{\memRTLrightskip}{\if@RTL\rightskip\else\rightskip\fi}
17682 \renewcommand*{\memRTLleftskip}{\if@RTL\leftskip\else\leftskip\fi}
17683 \renewcommand*{\memRTLrightskip}{\if@RTL\rightskip\else\rightskip\fi}
17684 \renewcommand*{\thesection}{\thechapter\@SepMark\@arabic\c@section}
17685 \renewcommand*{\thesubsection}{%

```



```

17686 \thesection\@SepMark\@arabic\c@section}
17687 \renewcommand*{\thesubsubsection}{%
17688 \thesubsection\@SepMark\@arabic\c@subsubsection}
17689 \renewcommand*{\theparagraph}{%
17690 \thesubsubsection\@SepMark\@arabic\c@paragraph}
17691 \renewcommand*{\thesubparagraph}{%
17692 \theparagraph\@SepMark\@arabic\c@subparagraph}
17693 \renewcommand{\setthesection}{\thechapter\@SepMark\Alph{section}}
17694 \renewcommand{\theequation}{%
17695 \ifnum \c@chapter>z@ \thechapter\@SepMark\fi \@arabic\c@equation}
17696 \renewcommand{\thefigure}{\thechapter\@SepMark\@arabic\c@figure}
17697 \renewcommand{\thetable}{\thechapter\@SepMark\@arabic\c@table}
17698 \ifartopt
17699 \chapterstyle{article}
17700 \counterwithout{figure}{chapter}
17701 \counterwithout{table}{chapter}
17702 \counterwithout{footnote}{chapter}
17703 \counterwithout{equation}{chapter}
17704 \renewcommand{\chaptername}{%
17705 \renewcommand{\maketitlehookb}{%
17706 \vskip -1.5\topsep\vskip -1.5\partopsep}
17707 \renewcommand{\maketitlehookc}{%
17708 \vskip -1.5\topsep\vskip -1.5\partopsep}
17709 \fi
17710 \long\def\@makecaption#1#2{\let\@memtempa\relax
17711 \ifdim\prevdepth>-99\p@ \vskip\abovecaptionskip
17712 \else \def\@memtempa{\vbox to\topskip{}}\fi
17713 \let\@contfnote\footnote \renewcommand{\footnote}[2] [] {}
17714 \let\@contfmark\footnotemark \renewcommand{\footnotemark}[1] [] {}
17715 \sbox\@tempboxa{\@contnfont #1\@contdelim \@conttfont #2\@contfinal}
17716 \let\footnote\@contfnote
17717 \let\footnotemark\@contfmark
17718 \ifdim\wd\@tempboxa<\linewidth \centering \fi
17719 \if@contcw
17720 \centering
17721 \parbox{\@contcwidth}{%
17722 \ifdim\wd\@tempboxa<\@contcwidth \centering \fi
17723 \fi
17724 \ifdim\wd\@tempboxa<\linewidth
17725 \@contpre
17726 {\@contnfont #1\@contdelim}\@memtempa
17727 {\@contcshortstyle \@conttfont #2\@contfinal\par}
17728 \else
17729 \if@conthang
17730 \sbox\@tempboxa{\@contnfont #1\@contdelim}
17731 \@contpre%
17732 {\@contcstyle\hangindent=\wd\@tempboxa
17733 \noindent\box\@tempboxa\@memtempa \@conttfont #2\@contfinal\par}
17734 \else
17735 \if@contindent
17736 \@contpre%
17737 {\@contnfont #1\@contdelim}\@memtempa
17738 {\@contcstyle\hangindent=\@contindw
17739 \hangafter=\@one\@conttfont #2\@contfinal\par}% <- v1.4

```



```

17740     \else
17741         \@contpre%
17742         {\@contnfont #1\@contdelim}\@memtempa
17743         {\@contcstyle \@conttfont #2\@contfinal\par}
17744     \fi
17745 \fi
17746 \fi
17747 \@contpost
17748 \if@contcw
17749     \par
17750 } % end of the \parbox
17751 \fi
17752 \vskip\belowcaptionskip}
17753 \ApplyPatchCodeToPackage{caption}{%
17754 \AtBeginPackage{caption}{
17755 \ClassWarningNoLine{memoir}{%
17756 You are using the caption package with the memoir \MessageBreak
17757 class. This may cause unexpected or inconsistent \MessageBreak
17758 results if you use any of memoir's captioning facilities}
17759
17760 \long\def\@makecaption##1##2{%
17761     \vskip\abovecaptionskip
17762     \sbox\@tempboxa{\if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi}%
17763     \ifdim \wd\@tempboxa >\hsize
17764         \if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi\par
17765     \else
17766         \global \@minipagefalse
17767         \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
17768     \fi
17769     \vskip\belowcaptionskip}
17770
17771 \def\caption{%
17772     \ifx\@capttype\@undefined
17773         \@latex@error{\noexpand\caption outside float}\@ehd
17774         \expandafter\@gobble
17775     \else
17776         \refstepcounter\@capttype
17777         \expandafter\@firstofone
17778     \fi
17779     {\@dblarg{\@caption\@capttype}}%
17780 }
17781
17782 \long\def\@caption##1[##2]##3{%
17783     \par
17784     \addcontentsline{\csname ext@##1\endcsname}{##1}%
17785         {\protect\numberline{\csname the##1\endcsname}{\ignorespaces ##2}}%
17786     \begingroup
17787         \@parboxrestore
17788         \if@minipage
17789             \setminipage
17790         \fi
17791         \normalsize
17792         \@makecaption{\csname fnum@##1\endcsname}{\ignorespaces ##3}\par
17793     \endgroup}

```



```

17794 }}
17795 \renewenvironment{thebibliography}[1]{%
17796   \bibsection
17797   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
17798   \bidi@thebibliography@font@hook%
17799   \begin{bibitemlist}{#1}}{\end{bibitemlist}}\postbibhook}

```

118 File midfloat-xetex-bidi.def

```

17800 \ProvidesFile{midfloat-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for midfloat package]
17801 \def\RTL@outputdblcol{%
17802   \if@firstcolumn
17803     \global \@firstcolumnfalse
17804     \global\setbox\@leftcolumn\copy\@outputbox
17805     \splitmaxdepth\maxdimen
17806     \vbadness\maxdimen
17807     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
17808     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
17809     \toks@\expandafter{\topmark}%
17810     \xdef\@firstcoltopmark{\the\toks@}%
17811     \toks@\expandafter{\splitfirstmark}%
17812     \xdef\@firstcolfirstmark{\the\toks@}%
17813     \ifx\@firstcolfirstmark\@empty
17814       \global\let\@setmarks\relax
17815     \else
17816       \gdef\@setmarks{%
17817         \let\firstmark\@firstcolfirstmark
17818         \let\topmark\@firstcoltopmark}%
17819     \fi
17820     \global\c@colht\@colht\global\c@advvipersep\z@
17821     \ifnum\jua@sk>0
17822       \remove@strip\jua@sar
17823       \global\@colht\the\jua@pr
17824       \ifdim\right@cor>\z@
17825         \global\advance\@colht by\right@cor
17826       \fi
17827       \global\advance\@colht by\cor@height
17828       \global\cor@height=0pt
17829     \fi
17830     \global \setbox\@rightcolumn \vbox{%
17831   \else
17832     \ifdim\c@colht>\@colht
17833       \@tempdima\@colht
17834       \ifdim\@colht>\z@
17835         \global\setbox\@rightcolumn \vbox{%
17836           \unvbox\@rightcolumn
17837           \vbox to\@tempdima{%
17838             \vskip\c@advvipersep\unvbox\@outputbox}%
17839           \vskip\stripsep
17840           \vrule height\the\jua@ht width 0pt depth 0pt
17841           \vskip\stripsep
17842         }%
17843         \global\c@advvipersep\m@advvipersep
17844       \else

```



```

17845         \global\setbox\@rightcolumn \vbox{%
17846             \unvbox\@rightcolumn
17847             \vrule height\the\jua@ht width Opt depth Opt
17848             \vskip\stripsep
17849         }%
17850     \fi
17851     \ifnum\jua@sk>0
17852         \remove@strip\jua@sar
17853         \global\@colht\the\jua@pr
17854         \global\advance\@colht by -\ht\@rightcolumn
17855         \global\advance\@colht by \cor@height
17856         \global\cor@height=0pt
17857     \else
17858         \global\advance\c@colht by-\ht\@rightcolumn
17859         \global\@colht\c@colht
17860     \fi
17861 \else
17862 \global\@firstcolumntrue
17863 \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
17864     \unvbox\@rightcolumn
17865     \vskip\c@addvipersep
17866     \unvbox\@outputbox
17867 }%
17868 \setbox\@outputbox \vbox {%
17869     \hb@xt@\textwidth {%
17870         \hskip \columnwidth
17871         \hfil
17872         \vrule \@width\columnseprule
17873         \hfil
17874         \hb@xt@\columnwidth {%
17875             \bidi@firstcolumn@status@write%
17876             \box\@leftcolumn \hss}%
17877         \hskip-\textwidth
17878         \hb@xt@\columnwidth {%
17879             \bidi@lastcolumn@status@write%
17880             \box\@outputbox \hss}%
17881         \hskip\columnwidth
17882         \hskip\columnsep}%
17883     }%
17884 \@combinedblfloats
17885 \@setmarks
17886 \@outputpage
17887 \begingroup
17888     \@dblfloatplacement
17889     \@startdblcolumn
17890     \@whiles\if@fcolmade \fi
17891     {\@outputpage
17892     \@startdblcolumn}%
17893 \endgroup
17894 \global\jua@sk=0\global\jua@sar={}
17895 \global\cor@height\z@\global\c@addvipersep\z@
17896 \fi
17897 \fi
17898 }

```



```

17899
17900
17901 \def\LTR@outputdblcol{%
17902   \if@firstcolumn
17903     \global \@firstcolumnfalse
17904     \global\setbox\@leftcolumn\copy\@outputbox
17905     \splitmaxdepth\maxdimen
17906     \vbadness\maxdimen
17907     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
17908     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
17909     \toks@\expandafter{\topmark}%
17910     \xdef\@firstcoltopmark{\the\toks@}%
17911     \toks@\expandafter{\splitfirstmark}%
17912     \xdef\@firstcolfirstmark{\the\toks@}%
17913     \ifx\@firstcolfirstmark\@empty
17914       \global\let\@setmarks\relax
17915     \else
17916       \gdef\@setmarks{%
17917         \let\firstmark\@firstcolfirstmark
17918         \let\topmark\@firstcoltopmark}%
17919     \fi
17920     \global\c@colht\@colht\global\c@addvipersep\z@
17921     \ifnum\jua@sk>0
17922       \remove@strip\jua@sar
17923       \global\@colht\the\jua@pr
17924       \ifdim\right@cor>\z@
17925         \global\advance\@colht by\right@cor
17926       \fi
17927       \global\advance\@colht by\cor@height
17928       \global\cor@height=0pt
17929     \fi
17930     \global\setbox\@rightcolumn\vbox{%
17931 \else
17932   \ifdim\c@colht>\@colht
17933     \@tempdima\@colht
17934     \ifdim\@colht>\z@
17935       \global\setbox\@rightcolumn\vbox{%
17936         \unvbox\@rightcolumn
17937         \vbox to\@tempdima{%
17938           \vskip\c@addvipersep\unvbox\@outputbox}%
17939         \vskip\stripsep
17940         \vrule height\the\jua@ht width 0pt depth 0pt
17941         \vskip\stripsep
17942       }%
17943       \global\c@addvipersep\m@addvipersep
17944     \else
17945       \global\setbox\@rightcolumn\vbox{%
17946         \unvbox\@rightcolumn
17947         \vrule height\the\jua@ht width 0pt depth 0pt
17948         \vskip\stripsep
17949       }%
17950     \fi
17951     \ifnum\jua@sk>0
17952       \remove@strip\jua@sar

```




```

17953         \global\@colht\the\jua@pr
17954         \global\advance\@colht by -\ht\@rightcolumn
17955         \global\advance\@colht by\cor@height
17956         \global\cor@height=0pt
17957     \else
17958         \global\advance\c@colht by-\ht\@rightcolumn
17959         \global\@colht\c@colht
17960     \fi
17961 \else
17962     \global\@firstcolumntrue
17963     \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
17964         \unvbox\@rightcolumn
17965         \vskip\c@addvipersep
17966         \unvbox\@outputbox
17967     }%
17968     \setbox\@outputbox \vbox {%
17969         \hb@xt@\textwidth {%
17970             \hb@xt@\columnwidth {%
17971                 \bidi@firstcolumn@status@write%
17972                 \box\@leftcolumn \hss}%
17973             \hfil
17974             \vrule \@width\columnseprule
17975             \hfil
17976             \hb@xt@\columnwidth {%
17977                 \bidi@lastcolumn@status@write%
17978                 \box\@outputbox \hss}%
17979             }%
17980         }%
17981     \@combinedblfloats
17982     \@setmarks
17983     \@outputpage
17984     \begingroup
17985         \@dblfloatplacement
17986         \@startdblcolumn
17987         \@whiles\if@fcolmade \fi
17988         {\@outputpage
17989         \@startdblcolumn}%
17990     \endgroup
17991     \global\jua@sk=0\global\jua@sar={}%
17992     \global\cor@height\z@\global\c@addvipersep\z@
17993     \fi
17994 \fi
17995 }
17996
17997
17998 \def\@strip[#1/#2]{\global\@tempdima=#1\global\@tempdimb=#2%
17999     \global \setbox\@viper\vbox\bgroup\if@RTLmain\moveleft\dimexpr(\columnwidth+\columnsep)\fi
18000         \hsize\textwidth
18001         \@parboxrestore
18002         \col@number \@ne
18003         \vrule height\topskip width0pt depth0pt
18004 }
18005
18006 \def\endstrip{%

```



```

18007      \egroup\egroup
18008      \if@firstcolumn
18009          \ifdim\pagetotal>\z@
18010              \vskip\stripsep
18011              \global\ht@strip\pagegoal
18012              \global\advance\ht@strip by-\pagetotal
18013              \global\advance\ht@strip by-\stripsep
18014              \global\advance\ht@strip by-\ht@viper
18015              \global\advance\ht@strip by-\stripsep
18016              \global\jua@ht=\ht@viper
18017          \else
18018              \global\ht@strip\z@
18019          \fi
18020          \ifdim\ht@strip>\z@
18021              \unvbox\@viper
18022              \vskip\stripsep
18023              \add@strip{\the\pagetotal}{\the\jua@ht}{\the\@tempdima}{\the\@tempdimb}%
18024              \global\advance\jua@sk by1
18025          \else
18026              \@latex@error{Strip needs more place!}\@ehc
18027              \if@vihproof
18028                  \framebox[\columnwidth]{??? Strip ???}%
18029              \fi
18030          \fi
18031      \else
18032          \@latex@error{Strip is used only on left column!}\@ehc
18033          \if@vihproof
18034              \framebox[\columnwidth]{??? Strip ???}%
18035          \fi
18036      \fi
18037 }

```

119 File minitoc-xetex-bidi.def

```

18038 \ProvidesFile{minitoc-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for minitoc package f
18039 \def\@undottedtocline#1#2#3#4#5{%
18040     \ifnum #1>\c@tocdepth\relax \else
18041         \vskip \z@ plus.2\p@
18042         {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocrmarg
18043         \parindent #2\relax\@afterindenttrue
18044         \interlinepenalty\@M
18045         \leavevmode
18046         \@tempdima #3\relax \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \hbox{}%
18047         \hskip -\if@RTL\righskip\else\leftskip\fi
18048         #4\nobreak\hfill \nobreak
18049         \null\par}%
18050     \fi}
18051 \def\@Undottedtocline#1#2#3#4#5{%
18052     \ifnum #1>\c@tocdepth\relax \else
18053         \vskip \z@ \@plus.2\p@
18054         {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocrmarg
18055         \parindent #2\relax\@afterindenttrue
18056         \interlinepenalty\@M
18057         \leavevmode

```



```

18058 \tempdima #3\relax
18059 \advance\if@RTL\rightskip\else\leftskip\fi \tempdima \null\nobreak\hskip -\if@RTL\right
18060 {\coffefont #4}\nobreak \nobreak\null
18061 \par}%
18062 \fi}
18063 \def\@Undottedtoclinep#1#2#3#4#5{%
18064 \ifnum #1>\c@tocdepth\relax \else
18065 \vskip \z@ \@plus.2\p@
18066 {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@ocrma
18067 \parindent #2\relax\@afterindenttrue
18068 \interlinepenalty\@M
18069 \leavevmode
18070 \tempdima #3\relax
18071 \advance\if@RTL\rightskip\else\leftskip\fi \tempdima \null\nobreak\hskip -\if@RTL\right
18072 {\#4}\nobreak \hfill \nobreak\null
18073 \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
18074 \par}%
18075 \fi}

```

120 File multicol-xetex-bidi.def

```

18076 \ProvidesFile{multicol-xetex-bidi.def}[2025/09/30 v1.5 bidi adaptations for multicol package]
18077 \def\page@sofar{%
18078 \process@cols\mult@rightbox
18079 {\ifvoid\count@
18080 \setbox\count@\hbox to\hsize{%
18081 \else
18082 \wd\count@\hsize
18083 \fi}%
18084 \count@\col@number \advance\count@\m@ne
18085 \mult@info\z@
18086 {Column spec: \the\full@width\space = indent
18087 + columns + sep =\MessageBreak
18088 \the\multicol@leftmargin\space
18089 + \the\col@number\space
18090 x \the\hsize\space
18091 + \the\count@\space
18092 x \the\columnsep
18093 }%
18094 \ifvmode\else\errmessage{Multicol Error}\fi
18095 \nointerlineskip
18096 \setbox\z@\hbox{p}\global\dimen\tw@\dp\z@
18097 \moveright\multicol@leftmargin
18098 \hbox to\full@width{%
18099 \bidi@multicol@align@columns
18100 \rlap{\phantom p}%
18101 }%
18102 \prevdepth\z@
18103 \kern-\dimen\tw@
18104 \ifdim\dimen\tw@ > \mc@gridwarn
18105 \PackageWarning{multicol}%
18106 {Very deep columns!\MessageBreak
18107 Grid alignment might be broken}%
18108 \fi

```



```

18109 }
18110 \def\LTR@column@boxes{%
18111   \process@cols\mult@firstbox{%
18112     \ifdim\dp\count@>\dimen\tw@
18113       \global\dimen\tw@\dp\count@ \fi
18114     \mc@col@status@write
18115     \box\count@
18116     \hss{\columnseprulecolor\vrule
18117       \@width\columnseprule}\hss}%
18118   \ifdim\dp\mult@rightbox>\dimen\tw@
18119     \global\dimen\tw@\dp\mult@rightbox \fi
18120   \mc@lastcol@status@write
18121   \box\mult@rightbox
18122 }
18123
18124 \def\RTL@column@boxes{%
18125   \process@cols\mult@firstbox{%
18126     \hskip\hsize
18127     \hss{\columnseprulecolor\vrule
18128       \@width\columnseprule}\hss
18129   }%
18130   \hskip\hsize
18131   \process@cols\mult@firstbox{%
18132     \ifdim\dp\count@>\dimen\tw@
18133       \global\dimen\tw@\dp\count@ \fi
18134     \hskip-\hsize
18135     \mc@col@status@write
18136     \box\count@
18137     \hskip-\hsize
18138     \hskip-\columnsep
18139   }%
18140   \ifdim\dp\mult@rightbox>\dimen\tw@
18141     \global\dimen\tw@\dp\mult@rightbox \fi
18142   \hskip-\hsize
18143   \mc@lastcol@status@write
18144   \box\mult@rightbox
18145   \hskip-\hsize
18146   \hskip\full@width
18147 }
18148
18149 \newcommand\RTLmulticolcolumns
18150   {\let\bidimulticol@align@columns
18151     \RTL@column@boxes}
18152 \newcommand\LTRmulticolcolumns
18153   {\let\bidimulticol@align@columns
18154     \LTR@column@boxes}
18155 \newcommand\bidimulticol@align@columns
18156   {\if@RTLmain\RTL@column@boxes\else\LTR@column@boxes\fi}
18157 \bidimulticol@AtEndPreamble{%
18158   \if@bidi@csdef{footinsv@1}{%
18159     \def\footnoterule{\kern-3\p@
18160       \hrule \@width \textwidth \kern 2.6\p@}%
18161   }-}%
18162 }

```



```

18163 \def\multicols#1{\col@number#1\relax
18164   \ifnum\col@number<\tw@
18165     \PackageWarning{multicol}%
18166       {Using `\'number\col@number'
18167         columns doesn't seem a good idea.^^J
18168         I therefore use two columns instead}%
18169     \col@number\tw@ \fi
18170   \ifnum\col@number>20
18171     \PackageError{multicol}%
18172       {Too many columns}%
18173     {Current implementation doesn't
18174       support more than 20 columns.%
18175     \MessageBreak
18176       I therefore use 20 columns instead}%
18177   \col@number20 \fi
18178   \ifx\@footnotetext\mult@footnotetext
18179   \else
18180     \let\orig@footnotetext\@footnotetext
18181     \let\@footnotetext\mult@footnotetext
18182   \fi
18183   \ifx\@LTRfootnotetext\mult@LTRfootnotetext
18184   \else
18185     \let\orig@LTRfootnotetext\@LTRfootnotetext
18186     \let\@LTRfootnotetext\mult@LTRfootnotetext
18187   \fi
18188   \ifx\@RTLfootnotetext\mult@RTLfootnotetext
18189   \else
18190     \let\orig@RTLfootnotetext\@RTLfootnotetext
18191     \let\@RTLfootnotetext\mult@RTLfootnotetext
18192   \fi
18193   \@ifnextchar[\mult@cols{\mult@cols[]}]
18194 \long\def\mult@footnotetext#1{\begingroup
18195   \hsize\textwidth
18196   \columnwidth\textwidth
18197   \orig@footnotetext{#1}\endgroup}
18198 \long\def\mult@LTRfootnotetext#1{\begingroup
18199   \hsize\textwidth
18200   \columnwidth\textwidth
18201   \orig@LTRfootnotetext{#1}\endgroup}
18202 \long\def\mult@RTLfootnotetext#1{\begingroup
18203   \hsize\textwidth
18204   \columnwidth\textwidth
18205   \orig@RTLfootnotetext{#1}\endgroup}
18206 \def\right@footnoterule{%
18207   \kern-3\p@
18208   \nointerlineskip
18209   \hbox to \textwidth{\hskip \dimexpr\textwidth-.4\columnwidth\relax \hrulefill }
18210   \kern2.6\p@}
18211 \def\textwidth@footnoterule{\kern-3\p@
18212   \hrule \@width \textwidth \kern 2.6\p@}
18213 \def\bidileave@mult@copyins{%
18214   \advance\dimen@-\skip\@bidi@copyins@
18215   \advance\dimen@-\ht\@bidi@copyins@
18216 }

```



```

18217
18218 \bidi@AtEndPreamble{%
18219   \if@bidi@csundef{footinsv@1}{%
18220     \bidi@patchcmd{\multi@column@out}{%
18221       \ifvbox \@kludgeins
18222     }{%
18223       \ifvoid\@bidi@copyins@ \else
18224         \bidi@leave@mult@copyins
18225       \fi
18226       \ifvbox \@kludgeins
18227     }{}{}%
18228   }{}%
18229 }
18230
18231

```

121 File multienum-xetex-bidi.def

```

18232 \ProvidesFile{multienum-xetex-bidi.def}[2011/04/16 v0.1 bidi adaptations for multienum packa
18233 \renewcommand{\itemx}[1]{\parbox[t]{%
18234   {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18235   \parbox[t]{\remainx}{\bidi@raggedright #1}\par}%\smallskip
18236 \renewcommand{\itemxx}[2]{\parbox[t]{%
18237   {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18238   \parbox[t]{.5\remainxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
18239     {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18240     \parbox[t]{0.5\remainxx}{\bidi@raggedright #2}\smallskip}
18241 \renewcommand{\itemxxx}[3]{\parbox[t]{%
18242   {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18243   \parbox[t]{.3333\remainxxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
18244     {\labelwidth}{\hfill {\labelname}}\hskip\labelsep%
18245     \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\hfill\parbox[t]{%
18246       {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18247       \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #3}\par}%\smallskip
18248 \renewcommand{\itemxxxx}[4]{\parbox[t]{%
18249   {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18250   \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
18251     {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18252     \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
18253     \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18254     \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\hfill%
18255     \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18256     \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #4}\smallskip}
18257 \renewcommand{\itemxxxxx}[5]{\parbox[t]{%
18258   {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18259   \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #1}\hfill%
18260   \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18261   \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #2}\hfill%
18262   \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18263   \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #3}\hfill%
18264   \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18265   \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #4}\hfill%
18266   \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18267   \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #5}\smallskip}

```



```

18268 \renewcommand{\itemxox}[2]{\parbox[t]{%
18269 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18270 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
18271 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18272 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\smallskip}
18273 \renewcommand{\itemxxo}[2]{\parbox[t]{%
18274 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18275 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #1}\hfill%
18276 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18277 \parbox[t]{\remainxox}{\bidi@raggedright #2}\smallskip}
18278 \renewcommand{\itemxox}[3]{\parbox[t]{%
18279 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18280 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
18281 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18282 \parbox[t]{0.25\remainxxx}{\bidi@raggedright #2}\hfill%
18283 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18284 \parbox[t]{0.25\remainxxx}{\bidi@raggedright #3}\smallskip}
18285 \renewcommand{\itemxxox}[3]{\parbox[t]{%
18286 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18287 \parbox[t]{.25\remainxxx}{\bidi@raggedright #1}\hfill%
18288 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18289 \parbox[t]{\remainxox}{\bidi@raggedright #2}\hfill%
18290 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18291 \parbox[t]{0.25\remainxxx}{\bidi@raggedright #3}\smallskip}
18292 \renewcommand{\itemxxxo}[3]{\parbox[t]{%
18293 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18294 \parbox[t]{.25\remainxxx}{\bidi@raggedright #1}\hfill%
18295 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18296 \parbox[t]{.25\remainxxx}{\bidi@raggedright #2}\hfill%
18297 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18298 \parbox[t]{\remainxox}{\bidi@raggedright #3}\smallskip}

```

122 File natbib-xetex-bidi.def

```

18299 \ProvidesFile{natbib-xetex-bidi.def}[2017/06/09 v0.2 bidi adaptations for natbib package for
18300 \renewenvironment{thebibliography}[1]{%
18301 \bibsection
18302 \parindent\z@
18303 \bibpreamble
18304 \bibfont
18305 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
18306 \bidi@@thebibliography@font@hook%
18307 \list{\@biblabel{\the\c@NAT@ctr}}{\@bibsetup{#1}\global\c@NAT@ctr\z@}%
18308 \ifNAT@openbib
18309 \renewcommand\newblock{\par}%
18310 \else
18311 \renewcommand\newblock{\hskip .11em \@plus.33em \@minus.07em}%
18312 \fi
18313 \sloppy\clubpenalty4000\widowpenalty4000
18314 \sfcode\.\@m
18315 \let\NAT@bibitem@first@sw\@firstoftwo
18316 \let\citeN\cite \let\shortcite\cite
18317 \let\citeasnoun\cite
18318 }{%

```



```

18319 \bibitem@fin
18320 \bibpostamble
18321 \def\@noitemerr{%
18322   \PackageWarning{natbib}{Empty `thebibliography' environment}%
18323 }%
18324 \endlist
18325 \bibcleanup
18326 }%

```

123 File newfloat-xetex-bidi.def

```

18327 \ProvidesFile{newfloat-xetex-bidi.def}[2013/05/22 v0.1 bidi adaptations for newfloat package]
18328 \renewcommand*\newfloat@setwithin[2]{%
18329   \ifcsname c@chapter\endcsname
18330     \@removefromreset{#1}{chapter}%
18331   \fi
18332   \@removefromreset{#1}{section}%
18333   \edef\@tempa{#2}%
18334   \ifx\@tempa\@empty
18335     \def\@tempa{none}%
18336   \fi
18337   \def\@tempb{none}%
18338   \ifx\@tempa\@tempb
18339     \ifcsname c@chapter\endcsname
18340       \@chapterlistsgap@off{#1}%
18341     \fi
18342     \newfloat@@setwithin{#1}{\}{\}%
18343   \else
18344     \def\@tempb{chapter}%
18345     \ifx\@tempa\@tempb
18346       \@addtoreset{#1}{chapter}%
18347       \@chapterlistsgap@on{#1}%
18348       \newfloat@@setwithin{#1}{\ifnum\c@chapter>\z@ \thechapter\@SepMark\fi}{\theHchapter\@S
18349     \else
18350       \def\@tempb{section}%
18351       \ifx\@tempa\@tempb
18352         \@addtoreset{#1}{section}%
18353         \ifcsname c@chapter\endcsname
18354           \@addtoreset{#1}{chapter}%
18355           \@chapterlistsgap@on{#1}%
18356           \newfloat@@setwithin{#1}{\thesection\@SepMark}{\theHsection\@SepMark}%
18357       \else
18358         \newfloat@@setwithin{#1}{\ifnum\c@section>\z@ \thesection\@SepMark\fi}{\theHsection
18359       \fi
18360     \else
18361       \newfloat@Error{Invalid value `#2' for option `within'}%
18362     \fi
18363   \fi
18364 \fi}

```

124 File nicematrix-xetex-bidi.def

```

18365 \ProvidesFile{nicematrix-xetex-bidi.def}[2024/12/15 v0.3 bidi adaptations for nicematrix pac
18366 \ExplSyntaxOn

```




```

18367 \bidi@patchcmd{\__nicematrix_array:n}{\@tabarray}{%
18368   \bool_if:NF \l__nicematrix_tabular_bool \@RTLtabfalse
18369   \@tabarray
18370 }{}{}
18371 \ExplSyntaxOff
18372

```

125 File ntheorem-xetex-bidi.def

```

18373 \ProvidesFile{ntheorem-xetex-bidi.def}[2025/10/28 v0.2 bidi adaptations for ntheorem package]
18374 \gdef\@thm#1#2#3{%
18375   \if@thmmarks
18376     \stepcounter{end\InTheoType ctr}%
18377   \fi
18378   \renewcommand{\InTheoType}{#1}%
18379   \if@thmmarks
18380     \stepcounter{curr#1ctr}%
18381     \setcounter{end#1ctr}{0}%
18382   \fi
18383   \refstepcounter{#2}%
18384   \theorem@prework
18385   \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
18386   \ifvmode \advance\thm@topsepadd\partopsep\fi
18387   \trivlist
18388   \@topsep \theorempreskipamount
18389   \@topsepadd \thm@topsepadd % used by \@endparenv
18390   \advance\linewidth -\theorem@indent
18391   \advance\@totalleftmargin \theorem@indent
18392   \if@RTL\parshape \@ne 0pt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
18393   \@ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}
18394
18395 \gdef\xnthm#1#2[#3]{%
18396   \ifthm@tempif
18397     \expandafter\@ifundefined{c@#1}%
18398     {\@definecounter{#1}}{}%
18399     \newctr{#1}[#3]%
18400     \expandafter\xdef\csname the#1\endcsname{%
18401       \expandafter\noexpand\csname the#3\endcsname \@thmcountersep
18402       {\noexpand\csname the\theoremnumbering\endcsname{#1}}}%
18403       \noexpand\csname the\theoremnumbering\endcsname{#1}}%
18404     \expandafter\gdef\csname mkheader@#1\endcsname
18405     {\csname setparms@#1\endcsname
18406      \@thm{#1}{#1}{#2}}%
18407     \global\@namedef{end#1}{\@endtheorem}\fi}

```

126 File ntheorem-hyper-xetex-bidi.def

```

18408 \ProvidesFile{ntheorem-hyper-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem-h]
18409 \gdef\@thm#1#2#3{%
18410   \if@thmmarks
18411     \stepcounter{end\InTheoType ctr}%
18412   \fi
18413   \renewcommand{\InTheoType}{#1}%
18414   \if@thmmarks

```



```

18415     \stepcounter{curr#1ctr}%
18416     \setcounter{end#1ctr}{0}%
18417   \fi
18418   \refstepcounter{#2}%
18419   \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
18420   \ifvmode \advance\thm@topsepadd\partopsep\fi
18421   \trivlist
18422   \@topsep \theorempreskipamount
18423   \@topsepadd \thm@topsepadd % used by \@endparenv
18424   \advance\linewidth -\theorem@indent
18425   \advance\@totalleftmargin \theorem@indent
18426   \ifRTL\parshape \@ne 0pt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
18427   \ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```

127 File overpic-xetex-bidi.def

```

18428 \ProvidesFile{overpic-xetex-bidi.def}[2015/12/07 v0.1 bidi adaptations for overpic package f
18429 \renewenvironment{overpic}[2][\%
18430   \sbox{\z@}{\includegraphics[#1]{#2}}%
18431   \settodepth{\@tempcnta}{\usebox{\z@}}%
18432   \settoheight{\@tempcntb}{\usebox{\z@}}%
18433   \advance\@tempcntb\@tempcnta%
18434   \settowidth{\@tempcnta}{\usebox{\z@}}%
18435   \setlength{\@tempdima}{\unitlength}%
18436   \count@=\z@\Gin@gridfalse\setkeys{Gin}{#1}%
18437   \%
18438   \OVP@calc%
18439   \%
18440   \begin{picture}(\@tempcnta,\@tempcntb)%
18441     \ifRTL\else\put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}%
18442     \ifGin@grid%
18443       \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
18444         \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
18445     \fi\fi%
18446     % reset the graphics parameter
18447     \let\Gin@outer@scalex\relax
18448     \let\Gin@outer@scaley\relax
18449     \let\Gin@angle\relax
18450     \let\Gin@ewidth\Gin@exclamation
18451     \let\Gin@eheight\Gin@ewidth
18452     \def\Gin@scalex{1}
18453     \let\Gin@scaley\Gin@exclamation
18454   }{\%
18455     \ifRTL\ifGin@grid%
18456       \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
18457         \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
18458     \fi%
18459     \put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}\fi%
18460   \end{picture}%
18461 }%

```

128 File pdfbase-xetex-bidi.def

```

18462 \ProvidesFile{pdfbase-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for pdfbase package f

```



```

18463 \ExplSyntaxOn
18464 \cs_set_eq:NN\pbs_outputpage_orig:\@outputpage
18465 \cs_set_nopar:Npn\@outputpage{
18466   \int_gincr:N\g_pbs_page_int
18467   \box_if_vertical:cTF{\@outputbox}{
18468     \bool_set_true:N\l_pbs_is_vertical_bool
18469   }{
18470     \bool_set_false:N\l_pbs_is_vertical_bool
18471   }
18472   \hbox_set:Nn\@outputbox{
18473     %begin of page
18474     \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_bop_seq{##1}}
18475     \box_use_drop:N\@outputbox
18476     %end of page
18477     \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_eop_seq{##1}}
18478   }
18479   \bool_if:NT\l_pbs_is_vertical_bool{
18480     \vbox_set:Nn\@outputbox{\box_use_drop:N\@outputbox}
18481   }
18482   \pbs_outputpage_orig:
18483 }
18484 \ExplSyntaxOff

```

129 File pdfscape-xetex-bidi.def

```

18485 \ProvidesFile{pdfscape-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for pdfscape packa
18486 \bidi@patchcmd{\landscape}{\PLS@Rotate{90}}{%
18487   \if@RTL
18488     \PLS@Rotate{-90}%
18489   \else
18490     \PLS@Rotate{90}%
18491   \fi
18492 }{}{}

```

130 File pgfcorescopes.code-xetex-bidi.def

```

18493 \ProvidesFile{pgfcorescopes.code-xetex-bidi.def}[2015/11/14 v0.1 bidi adaptations for pgf pa
18494 \def\pgfpicture{%
18495   \begingroup%
18496   \ifmmode\else\@RTLfalse\beginL\fi%
18497   \pgfpicturetrue%
18498   \global\advance\pgf@picture@serial@count by1\relax%
18499   \edef\pgfpictureid{pgfid\the\pgf@picture@serial@count}%
18500   \let\pgf@nodecallback=\pgfutil@gobble%
18501   \pgf@picmaxx=-16000pt\relax%
18502   \pgf@picminx=16000pt\relax%
18503   \pgf@picmaxy=-16000pt\relax%
18504   \pgf@picminy=16000pt\relax%
18505   \pgf@relevantforpicturesizetrue%
18506   \pgf@resetpathsizes%
18507   \pgfutil@ifnextchar\bgroup\pgf@oldpicture\pgf@picture}
18508 \def\endpgfpicture{%
18509   \ifpgfrememberpicturepositiononpage%
18510     \hbox to0pt{\pgfsys@markposition{\pgfpictureid}}%

```



```

18511         \fi%
18512         % ok, now let's position the box
18513         \ifdim\pgf@picmaxx=-16000pt\relax%
18514             % empty picture. make size 0.
18515             \global\pgf@picmaxx=0pt\relax%
18516             \global\pgf@picminx=0pt\relax%
18517             \global\pgf@picmaxy=0pt\relax%
18518             \global\pgf@picminy=0pt\relax%
18519         \fi%
18520         % Shift baseline outside:
18521         \pgf@relevantforpicturesizefalse%
18522         \pgf@process{\pgf@baseline}%
18523         \xdef\pgf@shift@baseline{\the\pgf@y}%
18524         %
18525         \pgf@process{\pgf@trimleft}%
18526         \global\advance\pgf@x by-\pgf@picminx
18527         % prepare \hskip\pgf@trimleft@final.
18528         % note that \pgf@trimleft@final is also queried
18529         % by the pgf image externalization.
18530         \xdef\pgf@trimleft@final{-\the\pgf@x}%
18531         %
18532         \pgf@process{\pgf@trimright}%
18533         \global\advance\pgf@x by-\pgf@picmaxx
18534         % prepare \hskip\pgf@trimright@final.
18535         % note that \pgf@trimright@final is also queried
18536         % by the pgf image externalization.
18537         \xdef\pgf@trimright@final{\the\pgf@x}%
18538     %
18539     \pgf@remember@layerlist@globally
18540     \endgroup%
18541     \hss%
18542     \egroup%
18543     \pgf@restore@layerlist@from@global
18544     \pgf@insertlayers%
18545     \endgroup%
18546     \pgfsys@discardpath%
18547     \endgroup%
18548     \pgfsys@endscope%
18549     \pgfsys@endpicture%
18550     \endgroup%
18551     \hss
18552 \egroup%
18553 \pgfsys@typesetpicturebox\pgfpic%
18554 \ifmmode\else\endL\fi%
18555 \endgroup%
18556 }

```

131 File pgfsys-xetex-bidi.def

```

18557 \ProvidesFile{pgfsys-xetex-bidi.def}[2025/01/05 v0.1 bidi adaptations for pgfsys package for
18558 \def\pgfsys@shadingoutsidepgfpicture#1{%
18559     \beginL#1\endL%
18560 }
18561

```



18562

132 File picinpar-xetex-bidi.def

```
18563 \ProvidesFile{picinpar-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for picinpar package]
18564 \long\def\@makewincaption#1#2{%
18565   \setbox\@tempboxa\hbox{\footnotesize{\bf #1:\enspace}{#2}}%
18566   \ifdim\wd\@tempboxa>\picwd
18567     {\footnotesize{\bf #1:\enspace}{#2\par}}
18568   \else
18569     \hbox to\picwd{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}
18570   \fi}
18571 \def\endwindow{%
18572   \global\tcd=\tcdsav
18573   \egroup\vskip\parskip\parshape=0 % reset parshape; end \box\rawtext
18574   \vbadness=10000
18575   \splittopskip=0pt
18576 %
18577 % Typeset the lines above the window
18578 %
18579 \ifnum\tcd>0\setbox\holder=\vsplit\rawtext to \tcd\baselineskip
18580 \tcn=\tcd
18581 \loop\advance\tcn -1
18582 \setbox\fslice=\vsplit\holder to\baselineskip
18583 \prune\fslice\linewidth
18584 \topheight=0pt
18585 \ifnum\dp\fslice>\dp\wstrutbox
18586   \advance\topheight-\dp\fslice
18587   \advance\topheight\dp\wstrutbox
18588   \advance\topheight\ilg\fi
18589 \hbox to\linewidth{\box\fslice}
18590 \vskip-\topheight
18591 \ifdim\ht\holder>0pt\repeat
18592 \fi
18593 %
18594 % Now we build the boxes beside the window
18595 %
18596 \global\topheight=\tcl\baselineskip
18597 \ifnum\cumpartcl>0\global\tcl=\cumtcl
18598   \global\topheight=\vpic
18599 \fi
18600 \ifnum\bl>0 \ifnum\br>0 \multiply\topheight by 2\fi\fi
18601 \ifnum\bl>0\setbox\holder=\vsplit\rawtext to\topheight
18602 \else\ifnum\br>0\setbox\holder=\vsplit\rawtext to\topheight\fi\fi
18603 \tcn=\tcl \na=0 \nb=0
18604 \ifnum\bl>0 \ifnum\br>0 \multiply\tcn by 2\fi\fi
18605 \ifnum\bl>0\na=\tcn\ifnum\br>0\divide\na by 2\fi\fi
18606 \ifnum\br>0\nb=\tcn\ifnum\bl>0\divide\nb by 2\fi\fi
18607 \ifnum\na=0\ifnum\nb=0
18608   \setbox\waslice=\vbox to\vpic{\vss}
18609   \setbox\wbslice=\vbox to\vpic{\vss}
18610   \bl=1\br=1
18611   \vskip\ilg
18612 \fi\fi
```



```

18613 %
18614 % both sides
18615 %
18616 \ifnum\na>0 \ifnum\nb>0
18617 \loop\advance\nb -1
18618 \advance\na -1
18619 \if@RTL%
18620 \setbox\bslice=\vsplit\holder to\baselineskip
18621 \prune\bslice\rtside
18622 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
18623 to\rtside{\box\bslice\hfil}}
18624 \setbox\aslice=\vsplit\holder to\baselineskip
18625 \prune\aslice\lftside
18626 \setbox\waslice=\vbox{\unvbox\waslice\hbox
18627 to\lftside{\box\aslice\hfil}}
18628 \else%
18629 \setbox\aslice=\vsplit\holder to\baselineskip
18630 \prune\aslice\lftside
18631 \setbox\waslice=\vbox{\unvbox\waslice\hbox
18632 to\lftside{\box\aslice\hfil}}
18633 \setbox\bslice=\vsplit\holder to\baselineskip
18634 \prune\bslice\rtside
18635 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
18636 to\rtside{\box\bslice\hfil}}
18637 \fi%
18638 \ifnum\nb>0\repeat
18639 \fi\fi
18640 %
18641 % only text on the left side
18642 %
18643 \ifnum\na>0
18644 \loop\advance\na -1
18645 \setbox\aslice=\vsplit\holder to\baselineskip
18646 \prune\aslice\lftside
18647 \setbox\waslice=\vbox{\unvbox\waslice\hbox
18648 to\lftside{\box\aslice\hfil}}
18649 \ifdim\ht\holder>0pt\repeat
18650 \fi
18651 %
18652 % only text on the right side
18653 %
18654 \ifnum\nb>0
18655 \loop\advance\nb -1
18656 \setbox\bslice=\vsplit\holder to\baselineskip
18657 \prune\bslice\rtside
18658 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
18659 to\rtside{\box\bslice\hfil}}
18660 \ifdim\ht\holder>0pt\repeat
18661 \fi
18662 %
18663 % fixing the dimensions of the window part
18664 %
18665 \ifnum\bl=0\topheight=\ht\wbslice
18666 \else\ifnum\br=0\topheight=\ht\waslice

```



```

18667         \else\ifdim\ht\waslice>\ht\wbslice\topheight=\ht\waslice
18668             \else\topheight=\ht\wbslice\fi\fi\fi
18669 %
18670 % ship out the window material to the main vertical list
18671 %
18672 \ifnum\bl>0 \ifnum\br>0 \ifdim\ht\wbslice<\topheight
18673 \setbox\wbslice=\vbox to\topheight{\box\wbslice\vfll}
18674 \fi\fi\fi
18675 \setbox>windowbox=\vbox{\hbox to\linewidth{%
18676 \ifnum\bl>0\box\waslice\hfill\fi%
18677 \vbox to\topheight{\hrule width\picwd height0pt depth0pt\vskip0pt%
18678 \vfll\unvbox\picbox%
18679 \ifnum\picwd>0\vfll\fi%
18680 \vss}\ifnum\br>0\hfill\vbox{\box\wbslice}\fi}}%
18681 \unvbox>windowbox%
18682 \loop
18683 \setbox\bslice=\vsplit\rawtext to\baselineskip
18684 \prune\bslice\linewidth
18685 \setbox\wbslice=\vbox{\hbox to\linewidth{\box\bslice\hfil}}
18686 \unvbox\wbslice
18687 \ifdim\ht\rawtext>0pt
18688 \repeat
18689 }% FINITO

```

133 File plain-xetex-bidi.def

```

18690 \def\TeXeTOn{\TeXeTstate=1 }
18691 \def\TeXeTOff{\TeXeTstate=0 }
18692 \TeXeTOn
18693 \def\usebox#1{\leavevmode\copy #1\relax}
18694 \def\bidi@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox\z@}
18695 \let\bidi@o@everypar=\everypar
18696 \newtoks\bidi@n@everypar
18697 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
18698 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
18699 \let\everypar=\bidi@n@everypar
18700 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
18701 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
18702 \protected\def\hboxR{\hbox\bgroup
18703 \everyhbox{%
18704 \aftergroup\egroup
18705 \everyhbox{}}%
18706 \beginR
18707 \@hboxRconstructtrue
18708 \bgroup
18709 \aftergroup\endR
18710 \aftergroup\egroup
18711 }\hbox}
18712 \protected\def\hboxL{\hbox\bgroup
18713 \everyhbox{%
18714 \aftergroup\egroup
18715 \everyhbox{}}%
18716 \beginL
18717 \@hboxRconstructfalse

```



```

18718 \bgroup
18719 \aftergroup\endL
18720 \aftergroup\egroup
18721 }\hbox}
18722 \protected\def\ vboxR{\ vbox\bgroup
18723 \everyvbox{%
18724 \aftergroup\egroup
18725 \everyvbox{}}%
18726 \@RTLtrue
18727 \bgroup
18728 \aftergroup\egroup
18729 }\ vbox}
18730 \protected\def\ vboxL{\ vbox\bgroup
18731 \everyvbox{%
18732 \aftergroup\egroup
18733 \everyvbox{}}%
18734 \@RTLfalse
18735 \bgroup
18736 \aftergroup\egroup
18737 }\ vbox}
18738 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\hsize\linewidth\parshape\z@}
18739 \def\endLTR{\par}
18740 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\hsize\linewidth\parshape\z@}
18741 \def\endRTL{\par}
18742 \def\setRTL{\@RTLtrue\@RTL@footnotetrue}
18743 \def\setLTR{\@RTLfalse\@RTL@footnotefalse}
18744 \let\unsetRTL=\setLTR
18745 \let\unsetLTR=\setRTL
18746 \let\LR=\LRE
18747 \let\RL=\RLE
18748 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
18749 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
18750 \let\@ensure@RL=\@ensure@RTL
18751 \let\@ensure@LR=\@ensure@LTR
18752 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
18753 \let\@ensure@maindir=\@ensure@dir
18754 \def\@RTL{RTL}
18755 \def\@LTR{LTR}
18756 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
18757 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
18758 \let\@TeX\TeX
18759 \def\TeX{\@ensure@LTR{\@TeX}}
18760 \def\pagecontents{\ifvoid\topins\else\unvbox\topins\fi
18761 \dimen@=\dp\cclv \unvbox\cclv % open up \box255
18762 \ifvoid\footins\else % footnote info is present
18763 \vskip\skip\footins
18764 \footnoterule
18765 \unvbox\footins\fi
18766 \ifrggedbottom \kern-\dimen@ \vfil \fi
18767 \ifvoid\@bidi@copyins@
18768 \else
18769 \vskip\skip\@bidi@copyins@
18770 \unvbox\@bidi@copyins@
18771 \fi

```




```

18772 }
18773 \long\def\bidireflect@box#1{%
18774   \leavevmode
18775   \setbox\z@\hbox{#{1}}%
18776   \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
18777   \hbox to \wd\z@{\kern\wd\z@\box\tw@\hss}%
18778 }
18779 \def\XeTeX{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
18780   \hbox{\kern-.125em\bidireflect@box{E}}\kern-.1667em \TeX}}$}}
18781 \let\setRL=\setRTL
18782 \let\setLR=\setLTR
18783 \let\unsetRL=\setLTR
18784 \let\bidisaved@eqno=\eqno
18785 \let\bidisaved@leqno=\leqno
18786 \def\eqno{\ifnum\predisplaydirection<\z@ \bidisaved@leqno \else \bidisaved@eqno \fi}
18787 \def\leqno{\ifnum\predisplaydirection<\z@ \bidisaved@eqno \else \bidisaved@leqno \fi}
18788 \def\centerline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
18789 \def\leftline#1{\line{\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
18790 \def\rightline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi}}

```

134 File pstricks-xetex-bidi.def

```

18791 \ProvidesFile{pstricks-xetex-bidi.def}[2025/01/08 v0.7 bidi adaptations for pstricks package]
18792 \bidi@patchcmd\pspicture\begingroup{%
18793   \begingroup
18794     \ifmmode
18795       \else
18796       \@RTLfalse
18797       \beginL
18798     \fi
18799 }{\bidisaved@warningnoline{Oops! patching '\string\pspicture' failed}}
18800
18801 \bidi@patchcmd\endpspicture{%
18802   \endgroup
18803   \psset[pstricks]{shift=0}% reset value
18804 }{%
18805   \ifmmode
18806     \else
18807     \endL
18808   \fi
18809   \endgroup
18810   \psset[pstricks]{shift=0}% reset value
18811 }{\bidisaved@warningnoline{Oops! patching '\string\endpspicture' failed}}
18812
18813 \bidi@patchcmd\@@scalebox{%
18814   \special{x: bscale \pst@tempc \pst@tempd}%
18815   \hbox to \z@{\box\pst@hbox\hss}%
18816   \special{x: escale}%
18817 }{%
18818   \if@RTL
18819     \special{x: escale}%
18820   \else
18821     \special{x: bscale \pst@tempc \pst@tempd}%
18822   \fi

```



```

18823 \hbox to \z@\box\pst@hbox\hss}%
18824 \ifRTL
18825 \special{x: bscale \pst@tempc \pst@tempd}%
18826 \else
18827 \special{x: escale}%
18828 \fi
18829 }{}{\bidi@warningnoline{Oops! patching `string\@scalebox' failed}}
18830 \let\ps@@scalebox\@scalebox
18831

```

135 File quotchap-xetex-bidi.def

```

18832 \ProvidesFile{quotchap-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for quotchap package]
18833 \renewcommand{\qauthor}[1]{%
18834 \par\smallskip
18835 {\ifRTL\raggedright\else\raggedleft\fi\upshape #1\qqquad\hbox{}\par}\bigskip}
18836 \renewcommand{\@makechapterhead}[1]{\chapterheadstartvskip%
18837 {\size@chapter{\sectfont\ifRTL\raggedright\else\raggedleft\fi
18838 {\chapnumfont
18839 \ifnum \c@secnumdepth >\m@ne%
18840 \if@mainmatter\thechapter%
18841 \fi\fi
18842 \par\nobreak}%
18843 {\ifRTL\raggedright\else\raggedleft\fi\advance\ifRTL\rightmargin\else\leftmargin\fi
18844 \nobreak\chapterheadendvskip}}
18845 \renewcommand*{\@iprintcites}{%
18846 \vbox to\z@\{\leavevmode\copy\@quotebox\vss}
18847 \global\let\@printcites\relax}

```

136 File ragged2e-xetex-bidi.def

```

18848 \ProvidesFile{ragged2e-xetex-bidi.def}[2018/10/17 v0.3 bidi adaptations for ragged2e package]
18849 \renewcommand{\Centering}{%
18850 \ifx\\ \@raggedtwoe@savedcr
18851 \let\\ \@centercr
18852 \fi
18853 \let\@gnewline\@raggedtwoe@gnewline
18854 \ifRTL\rightright\else\leftskip\fi\CenteringLeftskip
18855 \@rightskip\CenteringRightskip
18856 \ifRTL\leftskip\else\rightskip\fi\@rightskip
18857 \parfillskip\CenteringParfillskip
18858 \parindent\CenteringParindent
18859 \@raggedtwoe@spaceskiptrue
18860 \@raggedtwoe@everyselectfont
18861 }
18862 \renewcommand{\RaggedLeft}{%
18863 \ifx\\ \@raggedtwoe@savedcr
18864 \let\\ \@centercr
18865 \fi
18866 \let\@gnewline\@raggedtwoe@gnewline
18867 \ifRTL\rightright\else\leftskip\fi\RaggedLeftLeftskip
18868 \@rightskip\RaggedLeftRightskip
18869 \ifRTL\leftskip\else\rightskip\fi\@rightskip
18870 \parfillskip\RaggedLeftParfillskip

```



```

18871 \parindent\RaggedLeftParindent
18872 \@raggedtwo@spaceskiptrue
18873 \@raggedtwo@everyselectfont
18874 }
18875 \renewcommand{\RaggedRight}{%
18876 \ifx\\ \@raggedtwo@savedcr
18877 \let\\ \@centercr
18878 \fi
18879 \let\@newline\@raggedtwo@gnewline
18880 \ifRTL\righskip\else\leftskip\fi\RaggedRightLeftskip
18881 \@rightskip\RaggedRightRightskip
18882 \ifRTL\leftskip\else\rightskip\fi\@rightskip
18883 \parfillskip\RaggedRightParfillskip
18884 \parindent\RaggedRightParindent
18885 \@raggedtwo@spaceskiptrue
18886 \@raggedtwo@everyselectfont
18887 }
18888 \renewcommand{\justifying}{%
18889 \let\\ \@raggedtwo@savedcr
18890 \let\@newline\@raggedtwo@saved@gnewline
18891 \ifRTL\righskip\else\leftskip\fi\z@
18892 \@rightskip\z@
18893 \ifRTL\leftskip\else\rightskip\fi\@rightskip
18894 \parfillskip\JustifyingParfillskip
18895 \parindent\JustifyingParindent
18896 \@raggedtwo@spaceskipfalse
18897 \@raggedtwo@everyselectfont
18898 }
18899 \def\@raggedtwo@raggedrightboxes@opt{%
18900 \renewcommand{\@arrayparboxrestore}{%
18901 \let\if@nbreak\iffalse
18902 \let\if@noskipsec\iffalse
18903 \let\par\@par
18904 \let\-\@dischyp
18905 \let'\@acci\let\` \@accii\let\=\@acciii
18906 \parskip\z@skip
18907 \everypar{}%
18908 \linewidth\hsize
18909 \@totalleftmargin\z@
18910 \ifRTL
18911 \RaggedLeft
18912 \else
18913 \RaggedRight
18914 \fi
18915 \lineskip\normallineskip
18916 \baselineskip\normalbaselineskip
18917 \sloppy}%
18918 \let\@raggedtwo@raggedrightboxes@opt\relax
18919 }
18920 \def\@raggedtwo@document@opt{%
18921 \AtBeginDocument{\@raggedtwo@abdhook}%
18922 \@raggedtwo@raggedrightboxes@opt
18923 \@raggedtwo@footmisctrue
18924 \let\@raggedtwo@document@opt\relax

```



```

18925 }
18926 \def\@raggedtwoe@abdhook{%
18927   \PackageInfo{ragged2e}{ABD: executing ``\string\RaggedLeft' for
18928     right to left documents and ``\string\RaggedRight' for left
18929     to right documents}%
18930   \if@RTL
18931     \RaggedLeft
18932   \else
18933     \RaggedRight
18934   \fi
18935   \ifundefined{@tocrmarg}{\edef\tocrmarg{\tocrmarg plus 2em}}%
18936   \let\@raggedtwoe@abdhook\relax
18937 }
18938 \@ifpackagewith{ragged2e}{raggedrightboxes}{%
18939   \@raggedtwoe@raggedrightboxes@opt
18940 }{}
18941 \@ifpackagewith{ragged2e}{document}{%
18942   \@raggedtwoe@document@opt
18943 }{}
18944 \let\origin@RaggedLeft=\RaggedLeft
18945 \let\origin@RaggedRight=\RaggedRight
18946 \def\RaggedLeft{\if@RTL\origin@RaggedRight\else\origin@RaggedLeft\fi}
18947 \def\RaggedRight{\if@RTL\origin@RaggedLeft\else\origin@RaggedRight\fi}

```

137 File rapport1-xetex-bidi.def

```

18948 \ProvidesFile{rapport1-xetex-bidi.def}[2025/09/30 v0.5 bidi adaptations for rapport1 class f
18949 \renewenvironment{theindex}{%
18950   \if@twocolumn
18951     \@restonecolfalse
18952   \else
18953     \@restonecoltrue
18954   \fi
18955   \columnseprule \z@
18956   \columnsep 35\p@
18957   \twocolumn[\@makeschapterhead{\indexname}]%
18958   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
18959   \thispagestyle{plain}\parindent\z@
18960   \parskip\z@ \@plus .3\p@\relax
18961   \let\item\@idxitem
18962 }{%
18963   \if@restonecol\onecolumn\else\clearpage\fi}
18964 \renewcommand*\head@style{%
18965   \interlinepenalty \@M
18966   \hyphenpenalty=\@M \exhyphenpenalty=\@M
18967   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
18968 \if@titlepage
18969   \renewenvironment{abstract}{%
18970     \titlepage
18971     \null\vfil
18972     \section*{\SectFont\abstractname}%
18973     \noindent\ignorespaces}
18974   {\par\vfil\null\endtitlepage}
18975 \else

```



```

18976 \renewenvironment{abstract}{%
18977     \if@twocolumn
18978         \section*{\abstractname}%
18979     \else
18980         \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
18981         \section*{\small\SectFont\abstractname}%
18982         \noindent\ignorespaces
18983     \fi}
18984     {\if@twocolumn\else\par\egroup\fi}
18985 \fi
18986 \renewcommand*\@regtocline[3]{%
18987     \ifnum #1>\c@tocdepth
18988     \else
18989         \vskip\z@\@plus.2\p@
18990         {\hangindent\z@ \afterindenttrue \interlinepenalty\@M
18991         \if@RTL\rightskip\else\leftskip\fi\unitindent
18992         \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
18993         \parfillskip\z@
18994         \@tempdima\unitindent
18995         \parindent\z@
18996         \leavevmode
18997         \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
18998         \hskip 1em \nobreak{\slshape #3}\par
18999     }%
19000     \fi}
19001 \if@oldtoc
19002 \renewcommand*\l@part[2]{%
19003     \ifnum \c@tocdepth >-2\relax
19004         \addpenalty{-\@highpenalty}%
19005         \addvspace{2.25em \@plus\p@}%
19006         \begingroup
19007             \setlength\@tempdima{3em}%
19008             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19009             \parfillskip -\@pnumwidth
19010             {\leavevmode
19011                 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
19012                 \nobreak
19013                 \global\@nobreaktrue
19014                 \everypar{\global\@nobreakfalse\everypar{}}%
19015             \endgroup
19016         \fi}
19017 \else
19018     \renewcommand*\l@part{%
19019         \ifnum \c@tocdepth >-2\relax
19020             \addpenalty{-\@highpenalty}%
19021             \addvspace{2.25em \@plus \p@}%
19022             \@regtocline{0}%
19023         \fi}
19024 \fi
19025 \if@oldtoc
19026 \renewcommand*\l@chapter[2]{%
19027     \addpenalty{-\@highpenalty}%
19028     \vskip 1.0em \@plus\p@
19029     \setlength\@tempdima{1.5em}%

```



```

19030 \begingroup
19031 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19032 \parfillskip -\@pnumwidth
19033 \leavevmode \bfseries
19034 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19035 \hskip -\if@RTL\rightskip\else\leftskip\fi
19036 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19037 \penalty\@highpenalty
19038 \endgroup}
19039 \else
19040 \renewcommand*\l@chapter{\@regtocline{0}}
19041 \fi
19042 \renewcommand*\left@footnoterule{%
19043 \kern-3\p@
19044 \kern.5\baselineskip
19045 \hrule\@width\unitindent
19046 \kern.4\baselineskip
19047 }
19048 \renewcommand*\right@footnoterule{%
19049 \kern-3\p@
19050 \kern.5\baselineskip
19051 \nointerlineskip
19052 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
19053 \kern.4\baselineskip}
19054 \renewenvironment{thebibliography}[1]
19055 {\chapter*{\bibname}%
19056 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
19057 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19058 \bidi@thebibliography@font@hook%
19059 \list{\@biblabel{\@arabic\c@enumiv}}%
19060 {\settowidth\labelwidth{\@biblabel{#1}}%
19061 \leftmargin\labelwidth
19062 \advance\leftmargin\labelsep
19063 \@openbib@code
19064 \usecounter{enumiv}%
19065 \let\p@enumiv\@empty
19066 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
19067 \sloppy\clubpenalty4000\widowpenalty4000%
19068 \sfcode\.\@m}
19069 {\def\@noitemerr
19070 {\@latex@warning{Empty `thebibliography' environment}}}%
19071 \endlist}
19072 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
19073 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
19074 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
19075 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
19076 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
19077 \renewcommand*\theequation{%
19078 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
19079 \renewcommand*\thefigure{%
19080 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
19081 \renewcommand*\thetable{%
19082 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
19083 \if@titlepage

```



```

19084 \renewcommand*\TitleFont{\rmfamily}
19085 \renewcommand*\maketitle{%
19086   \begin{titlepage}%
19087     \let\footnotesize\small
19088     \let\right@footnoterule\relax
19089     \let\left@footnoterule\relax
19090     \let\textwidth@footnoterule\relax
19091     \let \footnote \thanks
19092     \long\def\@makefntext##1{\parindent\z@
19093       \def\labelitemi{\textendash}\@revlabeltrue
19094       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
19095     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19096     \if@compatibility\setcounter{page}{0}\fi
19097     \null\vfil
19098     \vskip 60\p@
19099     \begin{center}%
19100       \TitleFont
19101       {\LARGE \def\\{\penalty -\@M}
19102         \if@allcaps
19103           \expandafter\uc@nothanks\@title\thanks\relax
19104         \else
19105           \@title
19106         \fi\par}%
19107       \vskip 3em%
19108       {\large
19109         \lineskip .75em \parindent\z@
19110         \begin{tabular}[t]{c}%
19111           \if@allcaps
19112             \expandafter\uc@authornothanks\@author\and\relax
19113           \else
19114             \@author
19115           \fi
19116         \end{tabular}\par}%
19117       \vskip 1.5em%
19118       {\large
19119         \if@allcaps
19120           \uppercase\expandafter{\@date}%
19121         \else
19122           \@date
19123         \fi\par}%
19124       \end{center}\par
19125       \@thanks
19126       \vfil\null
19127     \end{titlepage}%
19128     \setcounter{footnote}{0}%
19129     \global\let\thanks\relax
19130     \global\let\maketitle\relax
19131     \global\let\@thanks\@empty
19132     \global\let\@author\@empty
19133     \global\let\@title\@empty
19134     \global\let\@date\@empty
19135     \global\let\title\relax
19136     \global\let\author\relax
19137     \global\let\date\relax

```



```

19138 \global\let\and\relax
19139 }
19140 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
19141 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
19142 \futurelet\@tempa\uc@ax}
19143 \def\uc@ax{%
19144 \ifx\@tempa\relax
19145 \else
19146 \\\andname \\\expandafter\uc@authornothanks
19147 \fi}
19148 \def\uc@tx{\ifx\@tempa\relax
19149 \else \expandafter\uc@ty \fi}
19150 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
19151 \else
19152 \renewcommand*\maketitle{\par
19153 \begingroup
19154 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19155 \def\@makefnmark{\rlap{%
19156 \@textsuperscript{\normalfont\@thefnmark}}}%
19157 \long\def\@makefntext{\@xmakefntext{%
19158 \@textsuperscript{\normalfont\@thefnmark}}}%
19159 \if@twocolumn
19160 \ifnum \col@number=\@ne
19161 \\\@maketitle
19162 \else
19163 \twocolumn[\@maketitle]%
19164 \fi
19165 \else
19166 \newpage
19167 \global\@topnum\z@
19168 \\\@maketitle
19169 \fi
19170 \thispagestyle{plain}\@thanks
19171 \endgroup
19172 \setcounter{footnote}{0}%
19173 \global\let\thanks\relax
19174 \global\let\maketitle\relax
19175 \global\let\@maketitle\relax
19176 \global\let\@thanks\@empty
19177 \global\let\@author\@empty
19178 \global\let\@title\@empty
19179 \global\let\@date\@empty
19180 \global\let\title\relax
19181 \global\let\author\relax
19182 \global\let\date\relax
19183 \global\let\and\relax
19184 }
19185 \def\@maketitle{%
19186 \newpage
19187 \null
19188 \vskip 2em%
19189 \begin{center}%
19190 \let \footnote \thanks
19191 {\LARGE \TitleFont \@title \par}%

```




```

19192 \vskip 1.5em%
19193 {\large \TitleFont
19194 \lineskip .5em%
19195 \begin{tabular}[t]{c}%
19196 \@author
19197 \end{tabular}\par}%
19198 \vskip 1em%
19199 {\large \TitleFont \@date}%
19200 \end{center}%
19201 \par
19202 \vskip 1.5em}
19203 \fi

```

138 File rapport3-xetex-bidi.def

```

19204 \ProvidesFile{rapport3-xetex-bidi.def}[2025/09/30 v0.7 bidi adaptations for rapport3 class f
19205 \renewenvironment{theindex}{%
19206 \if@twocolumn
19207 \@restonecolfalse
19208 \else
19209 \@restonecoltrue
19210 \fi
19211 \columnseprule \z@
19212 \columnsep 35\p@
19213 \twocolumn[\@makeschapterhead{\indexname}]%
19214 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
19215 \thispagestyle{plain}\parindent\z@
19216 \parskip\z@ \@plus .3\p@\relax
19217 \let\item\@idxitem
19218 }{%
19219 \if@restonecol\onecolumn\else\clearpage\fi}
19220 \if@titlepage
19221 \renewcommand*\TitleFont{\rmfamily}
19222 \renewcommand*\maketitle{%
19223 \begin{titlepage}%
19224 \let\footnotesize\small
19225 \let\right@footnoterule\relax
19226 \let\left@footnoterule\relax
19227 \let\textwidth\footnoterule\relax
19228 \let \footnote \thanks
19229 \let \LTRfootnote \LTRthanks
19230 \let \RTLfootnote \RTLthanks
19231 \long\def\@makefntext##1{\parindent\z@
19232 \def\labelitemi{\textendash}\@revlabeltrue
19233 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
19234 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19235 \if@compatibility\setcounter{page}{0}\fi
19236 \null\vfil
19237 \vskip 60\p@
19238 \begin{center}%
19239 \TitleFont
19240 {\LARGE \def\\{\penalty -\@M}
19241 \if@allcaps
19242 \expandafter\uc@nothanks\@title\thanks\relax

```



```

19243         \else
19244             \@title
19245             \fi\par}%
19246         \vskip 3em%
19247         {\large
19248             \lineskip .75em \parindent\z@
19249             \begin{tabular}[t]{c}%
19250                 \if@allcaps
19251                     \expandafter\uc@authornothanks\@author\and\relax
19252                 \else
19253                     \@author
19254                 \fi
19255             \end{tabular}\par}%
19256         \vskip 1.5em%
19257         {\large
19258             \if@allcaps
19259                 \uppercase\expandafter{\@date}%
19260             \else
19261                 \@date
19262             \fi\par}%
19263         \end{center}\par
19264         \@thanks
19265         \vfil\null
19266     \end{titlepage}%
19267     \setcounter{footnote}{0}%
19268     \global\let\thanks\relax
19269     \global\let\LTRthanks\relax
19270     \global\let\RTLthanks\relax
19271     \global\let\maketitle\relax
19272     \global\let\@thanks\@empty
19273     \global\let\@author\@empty
19274     \global\let\@title\@empty
19275     \global\let\@date\@empty
19276     \global\let\title\relax
19277     \global\let\author\relax
19278     \global\let\date\relax
19279     \global\let\and\relax
19280 }
19281 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
19282 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
19283     \futurelet\@tempa\uc@ax}
19284 \def\uc@ax{%
19285     \ifx\@tempa\relax
19286     \else
19287         \\\andname \\\expandafter\uc@authornothanks
19288     \fi}
19289 \def\uc@tx{\ifx\@tempa\relax
19290     \else \expandafter\uc@ty \fi}
19291 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
19292 \else
19293 \renewcommand*\maketitle{\par
19294     \begingroup
19295         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19296         \def\@makefnmark{\rlap{\

```



```

19297      \@textsuperscript{\normalfont\@thefnmark}}}%
19298 \long\def\@makefnintext{\@xmakefnintext{%
19299      \@textsuperscript{\normalfont\@thefnmark}}}%
19300 \if@twocolumn
19301   \ifnum \col@number=\@ne
19302     \@maketitle
19303   \else
19304     \twocolumn[\@maketitle]%
19305   \fi
19306 \else
19307   \newpage
19308   \global\@topnum\z@
19309   \@maketitle
19310 \fi
19311   \thispagestyle{plain}\@thanks
19312 \endgroup
19313 \setcounter{footnote}{0}%
19314 \global\let\thanks\relax
19315 \global\let\LTRthanks\relax
19316 \global\let\RTLthanks\relax
19317 \global\let\maketitle\relax
19318 \global\let\@maketitle\relax
19319 \global\let\@thanks\@empty
19320 \global\let\@author\@empty
19321 \global\let\@title\@empty
19322 \global\let\@date\@empty
19323 \global\let\title\relax
19324 \global\let\author\relax
19325 \global\let\date\relax
19326 \global\let\and\relax
19327 }
19328 \def\@maketitle{%
19329   \newpage
19330   \null
19331   \vskip 2em%
19332   \if@titlecentered
19333     \begin{center}%
19334       \let \footnote \thanks
19335       \let \LTRfootnote \LTRthanks
19336       \let \RTLfootnote \RTLthanks
19337       {\LARGE \TitleFont \@title \par}%
19338       \vskip 1.5em%
19339       {\large \TitleFont
19340         \lineskip .5em%
19341         \begin{tabular}[t]{c}%
19342           \@author
19343         \end{tabular}\par}%
19344       \vskip 1em%
19345       {\large \TitleFont \@date}%
19346     \end{center}%
19347   \else
19348     {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
19349     {\large \TitleFont \lineskip .5em \tabcolsep\z@
19350       \def\and{%% \begin{tabular} has already started

```



```

19351             \end{tabular}\hskip 1em plus .17fil
19352             \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabu
19353             \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}\
19354             \vskip 1em {\large \TitleFont \@date}
19355 \fi
19356 \par
19357 \vskip 1.5em}
19358 \fi
19359 \renewcommand*\@regtocline[3]{%
19360 \ifnum #1>\c@tocdepth
19361 \else
19362 \vskip\z@\@plus.2\p@
19363 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
19364 \if@RTL\righskip\else\leftskip\fi\unitindent
19365 \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
19366 \parfillskip\z@
19367 \@tempdima\unitindent
19368 \parindent\z@
19369 \leavevmode
19370 \hbox{}\hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
19371 \hskip 1em \nobreak{\slshape #3}\par
19372 }%
19373 \fi}
19374 \if@oldtoc
19375 \renewcommand*\l@part[2]{%
19376 \ifnum \c@tocdepth >-2\relax
19377 \addpenalty{-\@highpenalty}%
19378 \addvspace{2.25em \@plus\p@}%
19379 \begingroup
19380 \setlength\@tempdima{3em}%
19381 \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
19382 \parfillskip -\@pnumwidth
19383 {\leavevmode
19384 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
19385 \nobreak
19386 \global\@nobreaktrue
19387 \everypar{\global\@nobreakfalse\everypar{}}%
19388 \endgroup
19389 \fi}
19390 \else
19391 \renewcommand*\l@part{%
19392 \ifnum \c@tocdepth >-2\relax
19393 \addpenalty{-\@highpenalty}%
19394 \addvspace{2.25em \@plus \p@}%
19395 \@regtocline{0}%
19396 \fi}
19397 \fi
19398 \if@oldtoc
19399 \renewcommand*\l@chapter[2]{%
19400 \addpenalty{-\@highpenalty}%
19401 \vskip 1.0em \@plus\p@
19402 \setlength\@tempdima{1.5em}%
19403 \begingroup
19404 \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth

```



```

19405 \parfillskip -\@pnumwidth
19406 \leavevmode \bfseries
19407 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19408 \hskip -\if@RTL\rightskip\else\leftskip\fi
19409 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19410 \penalty\@highpenalty
19411 \endgroup}
19412 \else
19413 \renewcommand*\l@chapter{\@regtocline{0}}
19414 \fi
19415 \renewcommand*\head@style{%
19416 \interlinepenalty \@M
19417 \hyphenpenalty=\@M \exhyphenpenalty=\@M
19418 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
19419 \if@titlepage
19420 \renewenvironment{abstract}{%
19421 \titlepage
19422 \null\vfil
19423 \section*{\SectFont\abstractname}%
19424 \noindent\ignorespaces}
19425 {\par\vfil\null\endtitlepage}
19426 \else
19427 \renewenvironment{abstract}{%
19428 \if@twocolumn
19429 \section*{\abstractname}%
19430 \else
19431 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
19432 \section*{\small\SectFont\abstractname}%
19433 \noindent\ignorespaces
19434 \fi}
19435 {\if@twocolumn\else\par\egroup\fi}
19436 \fi
19437 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
19438 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
19439 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
19440 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
19441 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
19442 \renewcommand*\thefigure{%
19443 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
19444 \renewcommand*\thetable{%
19445 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
19446 \renewcommand*\theequation{%
19447 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@equation}
19448 \renewenvironment{thebibliography}[1]
19449 {\chapter*{\bibname}%
19450 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
19451 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19452 \bidi@thebibliography@font@hook%
19453 \list{\@biblabel{\@arabic\c@enumiv}}%
19454 {\settowidth\labelwidth{\@biblabel{#1}}%
19455 \leftmargin\labelwidth
19456 \advance\leftmargin\labelsep
19457 \@openbib@code
19458 \usecounter{enumiv}}%

```



```

19459         \let\p@enumiv\@empty
19460         \renewcommand*\theenumiv{\@arabic\c@enumiv}}}%
19461         \sloppy\clubpenalty4000\widowpenalty4000%
19462         \sfcode`\.\@m}
19463     {\def\@noitemerr
19464       {\@latex@warning{Empty `thebibliography' environment}}}%
19465     \endlist}
19466 \renewcommand*\left@footnoterule{%
19467   \kern-3\p@
19468   \kern.5\baselineskip
19469   \hrule\@width\unitindent
19470   \kern.4\baselineskip
19471 }
19472 \renewcommand*\right@footnoterule{%
19473   \kern-3\p@
19474   \kern.5\baselineskip
19475   \nointerlineskip
19476   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
19477   \kern.4\baselineskip}
19478 \renewcommand*\head@style{%
19479   \interlinepenalty \@M
19480   \hyphenpenalty=\@M \exhyphenpenalty=\@M
19481   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}

```

139 File refrep-xetex-bidi.def

```

19482 \ProvidesFile{refrep-xetex-bidi.def}[2025/09/30 v0.6 bidi adaptations for refrep class for X
19483 \if@titlepage
19484   \renewcommand\maketitle{\begin{titlepage}%
19485     \let\footnotesize\small
19486     \let\right@footnoterule\relax
19487     \let\left@footnoterule\relax
19488     \let\textwidth@footnoterule\relax
19489     \let\footnote\thanks
19490     \let\LTRfootnote\LTRthanks
19491     \let\RTLfootnote\RTLthanks
19492     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19493     \def\@makefnmark%
19494       {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
19495   \long\def\@makefntext##1{%
19496     \@setpar{\@par
19497       \@tempdima = \hsize
19498       \advance\@tempdima -1em
19499       \parshape \@ne 1em \@tempdima}%
19500     \par\parindent 1em \noindent
19501     \hb@xt@\z@\{\hss\@textsuperscript{\normalfont\@thefnmark}\,}\##1}
19502   \null\vfil
19503   \vskip 60\p@
19504   \begin{center}%
19505     {\LARGE \@title \par}%
19506     \vskip 3em%
19507     {\large
19508       \lineskip .75em%
19509       \begin{tabular}[t]{c}%

```



```

19510         \@author
19511         \end{tabular}\par}%
19512         \vskip 1.5em%
19513         {\large \@date \par}%           % Set date in \large size.
19514     \end{center}\par
19515     \@thanks
19516     \vfil\null
19517     \end{titlepage}%
19518     \setcounter{footnote}{0}%
19519     \global\let\thanks\relax
19520     \global\let\LTRthanks\relax
19521     \global\let\RTLthanks\relax
19522     \global\let\maketitle\relax
19523     \global\let\@thanks\@empty
19524     \global\let\@author\@empty
19525     \global\let\@date\@empty
19526     \global\let\@title\@empty
19527     \global\let\title\relax
19528     \global\let\author\relax
19529     \global\let\date\relax
19530     \global\let\and\relax
19531 }
19532 \else
19533 \renewcommand\maketitle{\par
19534     \begingroup
19535     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19536     \def\@makefnmark%
19537         {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
19538     \long\def\@makefntext##1{%
19539         \@setpar{\@par
19540             \@tempdima = \hsize
19541             \advance\@tempdima -1em
19542             \parshape \@ne 1em \@tempdima}%
19543         \par\parindent 1em \noindent
19544         \hb@xt@\z@{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
19545     \if@twocolumn
19546         \ifnum \col@number=\@ne
19547             \@maketitle
19548         \else
19549             \twocolumn[\@maketitle]%
19550         \fi
19551     \else
19552         \newpage
19553         \global\@topnum\z@ % Prevents figures from going at top of page.
19554         \@maketitle
19555     \fi
19556     \thispagestyle{empty}\@thanks
19557 \endgroup
19558 \setcounter{footnote}{0}%
19559 \global\let\thanks\relax
19560 \global\let\LTRthanks\relax
19561 \global\let\RTLthanks\relax
19562 \global\let\maketitle\relax
19563 \global\let\@maketitle\relax

```



```

19564 \global\let\@thanks\@empty
19565 \global\let\@author\@empty
19566 \global\let\@date\@empty
19567 \global\let\@title\@empty
19568 \global\let\title\relax
19569 \global\let\author\relax
19570 \global\let\date\relax
19571 \global\let\and\relax
19572 }
19573 \def\@maketitle{%
19574     \newpage
19575     \null
19576     \longthickrule\vskip1.5em%
19577     \let \footnote \thanks
19578     \let \LTRfootnote \LTRthanks
19579     \let \RTLfootnote \RTLthanks
19580     {\secshape \parskip\z@ \parindent\z@
19581     \Large\bfseries \@title \par}%
19582     \vskip1.5em\longthickrule\vskip1.5em%
19583     {\normalsize
19584     \lineskip .5em%
19585     \begin{flushright}%
19586         {\slshape\@author\par}
19587         \vskip 1em%
19588         {\@date}%
19589     \end{flushright}\par}%
19590     \vskip 1.5em}
19591 \fi
19592 \renewcommand*\l@part[2]{%
19593     \ifnum \c@tocdepth >-2\relax
19594         \addpenalty{-\@highpenalty}%
19595         \addvspace{2.25em \@plus\p@}%
19596         \begingroup
19597             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19598             \parfillskip -\@pnumwidth
19599             {\leavevmode
19600             \large \bfseries #1\hfil \hbox to\@pnumwidth{\hss #2}}\par
19601             \nobreak
19602             \global\@nobreaktrue
19603             \everypar{\global\@nobreakfalse\everypar{}}%
19604         \endgroup
19605     \fi}
19606 \renewcommand*\l@chapter[2]{%
19607     \ifnum \c@tocdepth >\m@ne
19608         \addpenalty{-\@highpenalty}%
19609         \vskip 1.0em \@plus\p@
19610         \setlength\@tempdima{1.5em}%
19611         \begingroup
19612             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19613             \parfillskip -\@pnumwidth
19614             \leavevmode \bfseries
19615             \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19616             \hskip -\if@RTL\rightskip\else\leftskip\fi
19617             #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par

```




```

19618 \penalty\@highpenalty
19619 \endgroup
19620 \fi}
19621 \renewcommand\secshape{\if@RTL\righskip\else\leftskip\fi=-\leftmarginwidth%
19622 \if@RTL\leftskip\else\righskip\fi=\@flushglue%
19623 \hyphenpenalty=2000}
19624 \renewcommand\left@footnoterule{%
19625 \kern-3\p@
19626 \hrule\@width.4\columnwidth
19627 \kern 2.6\p@}
19628 \renewcommand\right@footnoterule{%
19629 \kern-3\p@
19630 \nointerlineskip
19631 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
19632 \kern2.6\p@}
19633 \renewcommand\theequation
19634 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19635 \renewcommand\thefigure
19636 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
19637 \renewcommand\thetable%
19638 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
19639 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
19640 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
19641 \renewcommand\thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
19642 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
19643 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
19644 \renewenvironment{thebibliography}[1]
19645 {\chapter*\bibname
19646 \@mkboth{\bibname}{\bibname}}%
19647 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19648 \bidi@thebibliography@font@hook%
19649 \list{\@biblabel{\@arabic\c@enumiv}}%
19650 {\settowidth\labelwidth{\@biblabel{#1}}%
19651 \leftmargin\labelwidth
19652 \advance\leftmargin\labelsep
19653 \@openbib@code
19654 \usecounter{enumiv}%
19655 \let\p@enumiv\@empty
19656 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
19657 \sloppy
19658 \clubpenalty4000
19659 \@clubpenalty \clubpenalty
19660 \widowpenalty4000%
19661 \sfcode`\.=\@m}
19662 {\def\@noitemerr
19663 {\@latex@warning{Empty `thebibliography' environment}}}%
19664 \endlist}

```

140 File report-xetex-bidi.def

```

19665 \ProvidesFile{report-xetex-bidi.def}[2025/12/19 v1.3 bidi adaptations for standard report cl
19666 \renewenvironment{theindex}
19667 {\if@twocolumn
19668 \@restonecolfalse

```



```

19669             \else
19670                 \@restonecoltrue
19671             \fi
19672             \columnseprule \z@
19673             \columnsep 35\p@
19674             \twocolumn[\@makeschapterhead{\indexname}]%
19675             \@mkboth{\MakeUppercase\indexname}%
19676                 {\MakeUppercase\indexname}%
19677             \thispagestyle{plain}\parindent\z@
19678             \parskip\z@ \@plus .3\p@\relax
19679             \let\item\@idxitem}
19680         {\if@restonecol\onecolumn\else\clearpage\fi}
19681     \if@titlepage
19682         \renewcommand\maketitle{\begin{titlepage}%
19683             \let\footnotesize\small
19684             \let\right@footnoterule\relax
19685             \let\left@footnoterule\relax
19686             \let\textwidth\footnoterule\relax
19687             \let \footnote \thanks
19688             \let \LTRfootnote \LTRthanks
19689             \let \RTLfootnote \RTLthanks
19690             \null\vfil
19691             \vskip 60\p@
19692             \begin{center}%
19693                 {\LARGE \@title \par}%
19694                 \vskip 3em%
19695                 {\large
19696                     \lineskip .75em%
19697                     \begin{tabular}[t]{c}%
19698                         \@author
19699                     \end{tabular}\par}%
19700                 \vskip 1.5em%
19701                 {\large \@date \par}%           % Set date in \large size.
19702             \end{center}\par
19703             \@thanks
19704             \vfil\null
19705             \end{titlepage}%
19706             \setcounter{footnote}{0}%
19707             \global\let\thanks\relax
19708             \global\let\LTRthanks\relax
19709             \global\let\RTLthanks\relax
19710             \global\let\maketitle\relax
19711             \global\let\@thanks\@empty
19712             \global\let\@author\@empty
19713             \global\let\@date\@empty
19714             \global\let\@title\@empty
19715             \global\let\title\relax
19716             \global\let\author\relax
19717             \global\let\date\relax
19718             \global\let\and\relax
19719         }
19720     \else
19721         \renewcommand\maketitle{\par
19722             \begingroup

```



```

19723 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19724 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
19725 \long\def\@makefntext##1{\parindent 1em\noindent
19726 \hb@xt@1.8em{%
19727 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
19728 \if@twocolumn
19729 \ifnum \col@number=\@ne
19730 \maketitle
19731 \else
19732 \twocolumn[\maketitle]%
19733 \fi
19734 \else
19735 \newpage
19736 \global\@topnum\z@ % Prevents figures from going at top of page.
19737 \maketitle
19738 \fi
19739 \thispagestyle{plain}\@thanks
19740 \endgroup
19741 \setcounter{footnote}{0}%
19742 \global\let\thanks\relax
19743 \global\let\LTRthanks\relax
19744 \global\let\RTLthanks\relax
19745 \global\let\maketitle\relax
19746 \global\let\@maketitle\relax
19747 \global\let\@thanks\@empty
19748 \global\let\@author\@empty
19749 \global\let\@date\@empty
19750 \global\let\@title\@empty
19751 \global\let\title\relax
19752 \global\let\author\relax
19753 \global\let\date\relax
19754 \global\let\and\relax
19755 }
19756 \def\@maketitle{%
19757 \newpage
19758 \null
19759 \vskip 2em%
19760 \begin{center}%
19761 \let \footnote \thanks
19762 \let \LTRfootnote \LTRthanks
19763 \let \RTLfootnote \RTLthanks
19764 {\LARGE \@title \par}%
19765 \vskip 1.5em%
19766 {\large
19767 \lineskip .5em%
19768 \begin{tabular}[t]{c}%
19769 \@author
19770 \end{tabular}\par}%
19771 \vskip 1em%
19772 {\large \@date}%
19773 \end{center}%
19774 \par
19775 \vskip 1.5em}
19776 \fi

```



```

19777 \IfPackageLoadedF{tocloft}{%
19778 \renewcommand*{\l@part[2]{%
19779   \ifnum \c@tocdepth >-2\relax
19780     \addpenalty{-\@highpenalty}%
19781     \addvspace{2.25em \@plus\p@}%
19782     \setlength\@tempdima{3em}%
19783     \begingroup
19784       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19785       \parfillskip -\@pnumwidth
19786       {\leavevmode
19787         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
19788         \nobreak
19789         \global\@nobreaktrue
19790         \everypar{\global\@nobreakfalse\everypar{}}%
19791       \endgroup
19792     \fi}
19793 \renewcommand*{\l@chapter[2]{%
19794   \ifnum \c@tocdepth >\m@ne
19795     \addpenalty{-\@highpenalty}%
19796     \vskip 1.0em \@plus\p@
19797     \setlength\@tempdima{1.5em}%
19798     \begingroup
19799       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19800       \parfillskip -\@pnumwidth
19801       \leavevmode \bfseries
19802       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19803       \hskip -\if@RTL\rightskip\else\leftskip\fi
19804       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19805       \penalty\@highpenalty
19806     \endgroup
19807   \fi}
19808 }
19809 \renewcommand\left@footnoterule{%
19810   \kern-3\p@
19811   \hrule\@width.4\columnwidth
19812   \kern2.6\p@}
19813 \renewcommand\right@footnoterule{%
19814   \kern-3\p@
19815   \nointerlineskip
19816   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
19817   \kern2.6\p@}
19818 \renewcommand\theequation
19819   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19820 \renewcommand \thefigure
19821   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
19822 \renewcommand \thetable
19823   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
19824 \renewcommand \thechapter {\@arabic\c@chapter}
19825 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
19826 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
19827 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
19828 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
19829 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
19830 \def\@makechapterhead#1{%

```



```

19831 \vspace*{50\p@}%
19832 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
19833 \ifnum \c@secnumdepth >\m@ne
19834 \huge\bfseries \@chapapp\space \thechapter
19835 \par\nobreak
19836 \vskip 20\p@
19837 \fi
19838 \interlinepenalty\@M
19839 \Huge \bfseries #1\par\nobreak
19840 \vskip 40\p@
19841 }}
19842 \def\@makeschapterhead#1{%
19843 \vspace*{50\p@}%
19844 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
19845 \normalfont
19846 \interlinepenalty\@M
19847 \Huge \bfseries #1\par\nobreak
19848 \vskip 40\p@
19849 }}
19850 \IfPackageLoadedF{natbib}{%
19851 \renewenvironment{thebibliography}[1]
19852 {\chapter*{\bibname}%
19853 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
19854 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19855 \bidi@thebibliography@font@hook%
19856 \list{\@biblabel{\@arabic\c@enumiv}}%
19857 {\settowidth\labelwidth{\@biblabel{#1}}%
19858 \leftmargin\labelwidth
19859 \advance\leftmargin\labelsep
19860 \@openbib@code
19861 \usecounter{enumiv}%
19862 \let\p@enumiv\@empty
19863 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
19864 \sloppy
19865 \clubpenalty4000
19866 \@clubpenalty \clubpenalty
19867 \widowpenalty4000%
19868 \sfcode\.\@m}
19869 {\def\@noitemerr
19870 {\@latex@warning{Empty `thebibliography' environment}}}%
19871 \endlist}
19872 }

```

141 File rotating-xetex-bidi.def

```

19873 \ProvidesFile{rotating-xetex-bidi.def}[2013/05/22 v0.2 bidi adaptations for rotating package]
19874 \def\end@rotfloat{%
19875 \end{minipage}\end{lrbox}%
19876 \stepcounter{r@tfl@t}%
19877 \rot@label{RF\ther@tfl@t}%
19878 \rot@pageref{RF\ther@tfl@t}{\R@page}%
19879 \edef\@tempa{Adding sideways \@c@type\space on page \R@page\space}
19880 \rot@mess@toks\expandafter{\@tempa}
19881 \wd\rot@float@box\z@

```



```

19882 \ht\rot@float@box\z@
19883 \dp\rot@float@box\z@
19884 \vboxL to \textheight{%
19885 \setkeys{Grot}{units=360}%
19886 \if@rot@twoside
19887 \else
19888 \let\R@@page\rot@LR
19889 \fi
19890 \ifthenelse{\isodd{\R@@page}}{%
19891 \if@rot@twoside
19892 \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
19893 \fi
19894 \vfill
19895 @@line{%
19896 \hskip\rotFPtop
19897 \rotatebox{90}{\box\rot@float@box}%
19898 \hskip\rotFPbot
19899 }%
19900 }{%
19901 \if@rot@twoside
19902 \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
19903 \fi
19904 @@line{%
19905 \hskip\rotFPbot
19906 \rotatebox{-90}{\box\rot@float@box}%
19907 \hskip\rotFPtop
19908 }%
19909 \vfill
19910 }%
19911 \rot@message{\the\rot@mess@toks}
19912 }%
19913 \end@float
19914 }
19915 \let\endsidewaysfigure\end@rotfloat
19916 \let\endsidewaysstable\end@rotfloat
19917 \def\end@rotdblfloat{%
19918 \end{minipage}\end{lrbox}%
19919 \stepcounter{r@tfl@t}%
19920 \rot@label{RF\ther@tfl@t}%
19921 \rot@pageref{RF\ther@tfl@t}{\R@@page}%
19922 \edef\@tempa{Adding sideways \capttype\space on page \R@@page\space}
19923 \rot@mess@toks\expandafter{\@tempa}
19924 \@tempdima\ht\rot@float@box
19925 \advance\@tempdima by \dp\rot@float@box
19926 \wd\rot@float@box\z@
19927 \ht\rot@float@box\z@
19928 \dp\rot@float@box\z@
19929 \vboxL to \textheight{%
19930 \setkeys{Grot}{units=360}%
19931 \if@rot@twoside
19932 \else
19933 \let\R@@page\rot@LR
19934 \fi
19935 \ifthenelse{\isodd{\R@@page}}{%

```



```

19936 \ifrot@messages
19937 \if@rot@twoside
19938 \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
19939 \fi
19940 \fi
19941 \vfill
19942 \@@line{%
19943 \hskip\rotFPtop
19944 \rotatebox{90}{\box\rot@float@box}%
19945 \hskip\rotFPbot
19946 }%
19947 }{%
19948 \ifrot@messages
19949 \if@rot@twoside
19950 \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
19951 \fi
19952 \fi%
19953 \@@line{%
19954 \hskip\rotFPbot
19955 \rotatebox{-90}{\box\rot@float@box}%
19956 \hskip\rotFPtop
19957 }%
19958 \vfill
19959 }%
19960 \rot@message{\the\rot@mess@toks}%
19961 }%
19962 \end@dblfloat
19963 }
19964 \def\turn#1{%
19965 \Grot@setangle{#1}%
19966 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19967 \def\endturn{%
19968 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
19969 \unskip\color@endbox
19970 \Grot@x\z@
19971 \Grot@y\z@
19972 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19973 }
19974 \def\rotate#1{%
19975 \Grot@setangle{#1}%
19976 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19977 \def\endrotate{%
19978 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
19979 \unskip\color@endbox
19980 \Grot@x\z@
19981 \Grot@y\z@
19982 \wd0\z@\dp0\z@\ht0\z@
19983 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19984 }
19985 \def\turnbox#1#2{%
19986 \Grot@setangle{#1}%
19987 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi#2\ifmmode\if@RTL\endR\fi\fi}
19988 \Grot@x\z@\Grot@y\z@
19989 \wd0\z@\dp0\z@\ht0\z@

```



```

19990 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19991 }
19992 \def\sideways{%
19993   \Grot@setangle{90}%
19994   \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19995 \def\endsideways{%
19996   \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
19997   \unskip\color@endbox
19998   \Grot@x\z@
19999   \Grot@y\z@
20000   \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
20001 }

```

142 File scrartcl-xetex-bidi.def

```

20002 \ProvidesFile{scrartcl-xetex-bidi.def}[2025/09/30 v1.5 bidi adaptations for scrartcl class f
20003 \newcommand{\scr@saved@LTRfootnotetext}{}
20004 \newcommand{\scr@saved@RTLfootnotetext}{}
20005 \let\scr@saved@footnotetext\@footnotetext
20006 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
20007 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
20008 \renewcommand{\@footnotetext}[1]{%
20009   \scr@saved@footnotetext{#1}%
20010   \csname FN@mfb@prepare\endcsname
20011 }
20012 \renewcommand{\@LTRfootnotetext}[1]{%
20013   \scr@saved@LTRfootnotetext{#1}%
20014   \csname FN@mfb@prepare\endcsname
20015 }
20016 \renewcommand{\@RTLfootnotetext}[1]{%
20017   \scr@saved@RTLfootnotetext{#1}%
20018   \csname FN@mfb@prepare\endcsname
20019 }
20020 \renewcommand\deffootnote[4][1]{%
20021   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
20022     \long\def\@makefntext##1{%
20023       \ExecuteDoHook{footnote/text/begin}%
20024       \raggedfootnote
20025       \if@RTL
20026         \rightskip
20027       \else
20028         \leftskip
20029       \fi
20030       #2
20031       \l@addto@macro\@trivlist{%
20032         \ifnum\@listdepth=\@ne
20033           \if@RTL
20034             \advance\rightmargin #2\relax
20035           \else
20036             \advance\leftmargin #2\relax
20037           \fi
20038         \fi
20039       }%
20040       \parindent #3\noindent

```




```

20041 \IfArgIsEmpty{#1}{}{%
20042 \hskip \dimexpr #1-#2\relax
20043 }%
20044 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20045 \ExecuteDoHook{footnote/text/end}%
20046 }%
20047 \else
20048 \ClassInfo{\KOMAClassName}{%
20049 Using old \string\@makefnmark\space due to compatibility
20050 level\MessageBreak
20051 less than 3.22}%
20052 \long\def\@makefnmark##1{%
20053 \setlength{\@tempdimc}{#3}%
20054 \def\@tempa{#1}\ifx\@tempa\@empty
20055 \setpar{\@par
20056 \@tempdima = \hsize
20057 \addtolength{\@tempdima}{-#2}%
20058 \if@RTL
20059 \parshape \@ne \z@ \@tempdima
20060 \else
20061 \parshape \@ne #2 \@tempdima
20062 \fi}%
20063 \else
20064 \addtolength{\@tempdimc}{#2}%
20065 \addtolength{\@tempdimc}{-#1}%
20066 \setpar{\@par
20067 \@tempdima = \hsize
20068 \addtolength{\@tempdima}{-#1}%
20069 \@tempdimb = \hsize
20070 \addtolength{\@tempdimb}{-#2}%
20071 \if@RTL
20072 \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
20073 \else
20074 \parshape \tw@ #1 \@tempdima #2 \@tempdimb
20075 \fi
20076 }%
20077 \fi
20078 \par
20079 \parindent\@tempdimc\noindent
20080 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20081 }%
20082 \fi
20083 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
20084 }
20085 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
20086 \renewcommand*\left@footnoterule{%
20087 \normalsize\ftn@rule@test@values
20088 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20089 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20090 {\usekomafont{footnoterule}{%
20091 \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
20092 \kern 2.6\p@}
20093 \renewcommand*\right@footnoterule{%
20094 \normalsize\ftn@rule@test@values

```



```

20095 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20096 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20097 \nointerlineskip
20098 {\usekomafont{footnoterule}{%
20099     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
20100 \kern 2.6\p@}
20101 \renewcommand*\maketitle[1][1]{%
20102 \expandafter\ifnum \cscname scr@v@3.12\endcscname>\scr@compatibility\relax
20103 \else
20104     \def\and{%
20105         \end{tabular}%
20106         \hskip 1em \@plus.17fil%
20107         \begin{tabular}[t]{c}%
20108     }%
20109 \fi
20110 \if@titlepage
20111     \begin{titlepage}
20112         \setcounter{page}{%
20113             #1%
20114         }%
20115     \if@titlepageiscoverpage
20116         \edef\tITLEPAGE@restore{%
20117             \noexpand\endgroup
20118             \noexpand\global\noexpand\@colht\the\@colht
20119             \noexpand\global\noexpand\@colroom\the\@colroom
20120             \noexpand\global\vsizethe\vsizethe
20121             \noexpand\global\noexpand\@titlepageiscoverpagefalse
20122             \noexpand\let\noexpand\tITLEPAGE@restore\noexpand\relax
20123         }%
20124         \begin{group}
20125             \topmargin=\dimexpr \coverpagetopmargin-1in\relax
20126             \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
20127             \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
20128             \textwidth=\dimexpr
20129             \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
20130             \textheight=\dimexpr
20131             \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
20132             \headheight=0pt
20133             \headsep=0pt
20134             \footskip=\baselineskip
20135             \@colht=\textheight
20136             \@colroom=\textheight
20137             \vsizethe\textheight
20138             \columnwidth=\textwidth
20139             \hsizethe\columnwidth
20140             \linewidth=\hsizethe
20141         \else
20142             \let\tITLEPAGE@restore\relax
20143         \fi
20144         \let\footnotesize\small
20145         \let\right@footnoterule\relax
20146         \let\left@footnoterule\relax
20147         \let\textwidth@footnoterule\relax
20148         \let\footnote\thanks

```



```

20149 \let\LTRfootnote\LTRthanks
20150 \let\RTLfootnote\RTLthanks
20151 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20152 \let\@oldmakefnmark\@makefnmark
20153 \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
20154 \ifx\@extratitle\@empty
20155   \ifx\@frontispiece\@empty
20156   \else
20157     \if@twoside\mbox{}\next@tpage\fi
20158     \noindent\@frontispiece\next@tdpage
20159   \fi
20160 \else
20161   \noindent\@extratitle
20162   \ifx\@frontispiece\@empty
20163   \else
20164     \next@tpage
20165     \noindent\@frontispiece
20166   \fi
20167   \next@tdpage
20168 \fi
20169 \setparsizes{\z@}{\z@}{\z@ \@plus 1fil}\par@updateerelative
20170 \ifx\@titlehead\@empty \else
20171   \begin{minipage}[t]{\textwidth}%
20172     \usekomafont{titlehead}{\@titlehead\par}%
20173   \end{minipage}\par
20174 \fi
20175 \null\vfill
20176 \begin{center}
20177   \ifx\@subject\@empty \else
20178     {\usekomafont{subject}{\@subject\par}}%
20179     \vskip 3em
20180   \fi
20181   {\usekomafont{title}{\huge \@title\par}}%
20182   \vskip 1em
20183   {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
20184   \vskip 2em
20185   {%
20186     \usekomafont{author}{%
20187       \lineskip 0.75em
20188       \begin{tabular}[t]{c}
20189         \@author
20190       \end{tabular}\par
20191     }%
20192   }%
20193   \vskip 1.5em
20194   {\usekomafont{date}{\@date \par}}%
20195   \vskip \z@ \@plus3fill
20196   {\usekomafont{publishers}{\@publishers \par}}%
20197   \vskip 3em
20198 \end{center}\par
20199 \@thanks\global\let\@thanks\@empty
20200 \vfill\null
20201 \if@twoside
20202   \@tempwatrue

```



```

20203      \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
20204      \else
20205        \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
20206          \@tempswafalse
20207        \fi\fi
20208      \fi
20209      \if@tempswa
20210        \next@tpage
20211        \begin{minipage}[t]{\textwidth}
20212          \@uppertitleback
20213        \end{minipage}\par
20214        \vfill
20215        \begin{minipage}[b]{\textwidth}
20216          \@lowertitleback
20217        \end{minipage}\par
20218        \@thanks\global\let\@thanks\@empty
20219      \fi
20220    \else
20221      \ifx\@uppertitleback\@empty\else
20222        \ClassWarning{\KOMAClassName}{%
20223          non empty \string\uppertitleback\space ignored
20224          by \string\maketitle\MessageBreak
20225          in `twoside=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 `twoside=false' mode%
20233        }%
20234      \fi
20235    \fi
20236    \ifx\@dedication\@empty
20237    \else
20238      \next@tdpage\null\vfill
20239      {\centering\usekomafont{dedication}{\@dedication \par}}%
20240      \vskip \z@ \@plus3fill
20241      \@thanks\global\let\@thanks\@empty
20242      \cleardoubleemptypage
20243    \fi
20244    \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
20245    \end{titlepage}
20246  \else
20247    \par
20248    \@tempcnta=%
20249    #1%
20250    \relax\ifnum\@tempcnta=1\else
20251      \ClassWarning{\KOMAClassName}{%
20252        Optional argument of \string\maketitle\space ignored\MessageBreak
20253        in `titlepage=false' mode%
20254      }%
20255    \fi
20256    \ifx\@uppertitleback\@empty\else

```



```

20257 \ClassWarning{\KOMAClassName}{%
20258     non empty \string\uppertitleback\space ignored
20259     by \string\maketitle\MessageBreak
20260     in `titlepage=false' mode%
20261 }%
20262 \fi
20263 \ifx\@lowertitleback\@empty\else
20264 \ClassWarning{\KOMAClassName}{%
20265     non empty \string\lowertitleback\space ignored
20266     by \string\maketitle\MessageBreak
20267     in `titlepage=false' mode%
20268 }%
20269 \fi
20270 \begingroup
20271 \let\titlepage@restore\relax
20272 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20273 \let\@oldmakefnmark\@makefnmark
20274 \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
20275 \next@tdpage
20276 \if@twocolumn
20277 \ifnum \col@number=\@ne
20278 \ifx\@extratitle\@empty
20279 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20280 \else
20281 \@makeextratitle
20282 \fi
20283 \ifx\@frontispiece\@empty
20284 \ifx\@extratitle\@empty\else\next@tdpage\fi
20285 \else
20286 \next@tpage
20287 \@makefrontispiece
20288 \next@tdpage
20289 \fi
20290 \@maketitle
20291 \else
20292 \ifx\@extratitle\@empty
20293 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20294 \else
20295 \twocolumn[\@makeextratitle]%
20296 \fi
20297 \ifx\@frontispiece\@empty
20298 \ifx\@extratitle\@empty\else\next@tdpage\fi
20299 \else
20300 \next@tpage
20301 \twocolumn[\@makefrontispiece]%
20302 \next@tdpage
20303 \fi
20304 \twocolumn[\@maketitle]%
20305 \fi
20306 \else
20307 \ifx\@extratitle\@empty
20308 \ifx\@frontispiece\@empty\else \mbox{}\fi
20309 \else
20310 \@makeextratitle

```



```

20311         \fi
20312         \ifx\@frontispiece\@empty
20313             \ifx\@extratitle\@empty\else\next@tdpage\fi
20314         \else
20315             \next@tpage
20316             \@makefrontispiece
20317             \next@tdpage
20318         \fi
20319         \@maketitle
20320     \fi
20321     \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
20322     \@thanks\global\let\@thanks\@empty
20323     \endgroup
20324 \fi
20325 \setcounter{footnote}{0}%
20326 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
20327     \let\thanks\relax
20328     \let\LTRthanks\relax
20329     \let\RTLthanks\relax
20330     \let\maketitle\relax
20331     \let\@maketitle\relax
20332     \global\let\@thanks\@empty
20333     \global\let\@author\@empty
20334     \global\let\@date\@empty
20335     \global\let\@title\@empty
20336     \global\let\@subtitle\@empty
20337     \global\let\@extratitle\@empty
20338     \global\let\@frontispiece\@empty
20339     \global\let\@titlehead\@empty
20340     \global\let\@subject\@empty
20341     \global\let\@publishers\@empty
20342     \global\let\@uppertitleback\@empty
20343     \global\let\@lowertitleback\@empty
20344     \global\let\@dedication\@empty
20345     \global\let\author\relax
20346     \global\let\title\relax
20347     \global\let\extratitle\relax
20348     \global\let\titlehead\relax
20349     \global\let\subject\relax
20350     \global\let\publishers\relax
20351     \global\let\uppertitleback\relax
20352     \global\let\lowertitleback\relax
20353     \global\let\dedication\relax
20354     \global\let\date\relax
20355 \fi
20356 \global\let\and\relax
20357 }%
20358 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
20359 \def\raggedpart{\if@RTL\raggedleft\else\raggedright\fi}
20360 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
20361 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
20362 \renewcommand*{\thesubsubsection}{%
20363     \thesubsection\@SepMark\@arabic\c@subsubsection
20364 }

```



```

20365 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
20366 \renewcommand*{\thesubparagraph}{\%
20367 \theparagraph\@SepMark\@arabic\c@subparagraph
20368 }
20369 \renewenvironment{thebibliography}[1]{\%
20370 \if@bib@break@
20371 \bib@beginhook
20372 \else
20373 \bib@heading
20374 \ifx\bibpreamble\relax\else\ifx\bibpreamble\empty\else
20375 \noindent\bibpreamble\par\nobreak
20376 \fi\fi
20377 \bib@beginhook
20378 \bib@before@hook
20379 \fi
20380 \renewcommand{\BreakBibliography}[1]{\%
20381 \@bib@break
20382 \end{thebibliography}%
20383 \begingroup ##1\endgroup
20384 \begin{thebibliography}{#1}
20385 }%
20386 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
20387 \bidi@thebibliography@font@hook%
20388 \list{
20389 \@biblabel{\@arabic\c@enumiv}%
20390 }{
20391 \settowidth\labelwidth{\@biblabel{#1}}%
20392 \leftmargin\labelwidth
20393 \advance\leftmargin\labelsep
20394 \@openbib@code
20395 \if@bib@break@
20396 \edef\@tempa{
20397 \noexpand\usecounter{enumiv}%
20398 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
20399 }\@tempa
20400 \no@bib@break
20401 \else
20402 \usecounter{enumiv}%
20403 \fi
20404 \let\p@enumiv\empty
20405 \renewcommand*{theenumiv}{\@arabic\c@enumiv}%
20406 }%
20407 \sloppy\clubpenalty4000 \widowpenalty4000
20408 \sfcode`\.\@m
20409 }{
20410 \if@bib@break@
20411 \def\@noitemerr{%
20412 \@latex@warning{%
20413 \string\BreakBibliography\space at begin of `thebibliography'
20414 environment\MessageBreak
20415 or following \string\BreakBibliography}%
20416 }%
20417 \else
20418 \def\@noitemerr{%

```



```

20419 \latex@warning{%
20420     Empty `thebibliography' environment or
20421     \string\BreakBibliography\MessageBreak
20422     before end of `thebibliography' environment}%
20423 }%
20424 \fi
20425 \endlist
20426 \if@bib@break@
20427 \else
20428     \bib@after@hook
20429     \let\bib@before@hook\@empty
20430     \let\bib@after@hook\@empty
20431 \fi
20432 \bib@endhook
20433 }
20434 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
20435 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
20436 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
20437 \renewcommand\marginline[1]{%
20438     \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
20439 }
20440 \renewcommand{\@@makecaption}[3]{%
20441     \cap@margin
20442     \begingroup
20443     \ifonelinecaptions
20444         \def\stepcounter##1{\advance\value{##1}\@ne}%
20445         \let\refstepcounter\stepcounter
20446         \let\label\@gobble
20447         \let\@footnotetext=\@gobble
20448         \let\@LTRfootnotetext=\@gobble
20449         \let\@RTLfootnotetext=\@gobble
20450         \let\hypertarget\@gobbletwo
20451         \edef\@xnewline{%
20452             \unexpanded{\ClassInfo{\KOMAClassName}}{%
20453                 Workaround for not recommended usage of \string\\ or\MessageBreak
20454                 \string\newline in caption text
20455             }%
20456             \hspace*{\linewidth}\hspace{1sp}%
20457         }%
20458         \unexpanded\expandafter{\@xnewline}%
20459     }%
20460     \edef\@xcentercr{%
20461         \unexpanded{\ClassInfo{\KOMAClassName}}{%
20462             Workaround for not recommended usage of \string\\ or\MessageBreak
20463             \string\newline in caption text
20464         }%
20465         \hspace*{\linewidth}\hspace{1sp}%
20466     }%
20467     \unexpanded\expandafter{\@xcentercr}%
20468 }%
20469 \settowidth{\@tempdima}{\scr@@makesinglelinecaption{#1}{#2}{#3}}%
20470 \ifdim\@tempdima>\cap@width
20471     \aftergroup\scr@makemultilinecaption
20472 \else

```




```

20473         \aftergroup\scr@makesinglelinecaption
20474         \fi
20475     \else
20476         \aftergroup\scr@makemultilinecaption
20477         \fi
20478 \endgroup
20479 {#1}{#2}{#3}%
20480 }
20481 \renewcommand{\scr@makesinglelinecaption}[3]{%
20482     {%
20483         \usefontofkomafont{caption}{%
20484             \hb@xt@ \hsize{%
20485                 \cap@left
20486                 \if@RTL
20487                     \beginR
20488                     \fi
20489                 \scr@makesinglelinecaption{#1}{#2}{#3}%
20490                 \if@RTL
20491                     \endR
20492                 \fi
20493                 \cap@right
20494             }\par\kern\dp\strutbox%
20495         }%
20496     }\kern-\dp\strutbox
20497 }
20498 \renewcommand{\@makecaption}[2]{%
20499     \if@captionabove
20500         \vskip\belowcaptionskip
20501     \else
20502         \vskip\abovecaptionskip
20503     \fi
20504     \@makecaption\@firstofone{#1}{#2}%
20505     \if@captionabove
20506         \vskip\abovecaptionskip
20507     \else
20508         \vskip\belowcaptionskip
20509     \fi
20510 }
20511
20512 \renewcommand{\scr@makesinglelinecaption}[3]{%
20513     {\usekomafont{caption}{\strut\ignorespaces
20514         #1{\usekomafont{captionlabel}{#2\captionformat}}}%
20515         \ignorespaces #3\unskip}}%
20516 }
20517
20518 \renewcommand{\scr@makemultilinecaption}[3]{%
20519     {%
20520         \usefontofkomafont{caption}{%
20521             \hb@xt@ \hsize{%
20522                 \cap@left
20523                 \vbox{\hspace\cap@width\linewidth\hspace
20524                     \scr@ifundefinedorrelax{@captive}{%
20525                         \ClassWarning{\KOMAClassName}{%
20526                             `\'string\'caption' outside float.\MessageBreak

```



```

20527      Seems you are using `\'string\'caption' outside a
20528      float.\MessageBreak
20529      Maybe you are using a package that uses
20530      `\'string\'@makecaption'\MessageBreak
20531      without setting `\'string\'@captype' before.\MessageBreak
20532      Because I cannot detect the caption type, I'm using\MessageBreak
20533      the empty one.%
20534    }%
20535    \let\@captype\@empty
20536  }{}%
20537  \scr@ifundefinedorrelax{ragged\@captype caption}{\raggedcaption}{%
20538    \@nameuse{ragged\@captype caption}%
20539  }%
20540  \ifdofullc@p
20541    \@hangfrom{%
20542      \strut
20543      \scr@smashdp{%
20544        #1{%
20545          \usekomafont{caption}{%
20546            \usekomafont{captionlabel}{#2\captionformat}%
20547          }%
20548        }%
20549      }%
20550    }%
20551    {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
20552  \else
20553    \ifdim\cap@indent<\z@
20554      \strut
20555      #1{%
20556        {\usekomafont{caption}{%
20557          \usekomafont{captionlabel}{#2\captionformat}%
20558        }%
20559      }\par}%
20560      \noindent{{\usekomafont{caption}{%
20561        \hspace*{-\cap@indent}#3\scr@endstrut
20562      }}\par}%
20563    \else
20564      \if@capbreak
20565        \strut
20566        #1{%
20567          {\usekomafont{caption}{%
20568            \usekomafont{captionlabel}{#2\captionformat}%
20569          }%
20570        }\par}%
20571        \noindent\@hangfrom{\hspace*{-\cap@indent}}%
20572        {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
20573      \else
20574        \@hangfrom{\scr@smashdp\strut\hspace*{-\cap@indent}}%
20575        {%
20576          \hspace*{-\cap@indent}%
20577          \scr@smashdp{%
20578            #1{\usekomafont{caption}{%
20579              \usekomafont{captionlabel}{#2\captionformat}%
20580            }%

```



```

20581         }%
20582     }%
20583     {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
20584     }%
20585     \fi
20586     \fi
20587     \fi
20588     }%
20589     \cap@right
20590 } \par \kern \dp \strutbox
20591 }%
20592 } \kern - \dp \strutbox
20593 }
20594
20595 \bidi@AfterFile{longtable-xetex-bidi.def}{%
20596   \if@komalongtable
20597     \renewcommand{LT@makecaption}[3]{%
20598       \LT@mcol\LT@cols c{%
20599         \hbox to\z@{\hss\parbox[t]{linewidth{%
20600           \if@captionabove\else\vskip\belowcaptionskip\fi
20601           \@makecaption{#1}{#2}{#3}%
20602           \endgraf
20603           \if@captionabove\vskip\abovecaptionskip\fi
20604         }}%
20605         \hss
20606       }%
20607     }%
20608   }%
20609   \renewcommand*{\scr@LT@array}{}%
20610   \let\scr@LT@array=\LT@array
20611   \renewcommand*{\LT@array}{%
20612     \def\@capytype{table}%
20613     \@ifundefined{LTcapytype}{}{%
20614       \Ifstr{\LTcapytype}{}{}{\let\@capytype\LTcapytype}%
20615     }%
20616     \csname tocbasic_if_caption_above:TF\endcsname
20617     {\@captionabovetrue}{\@captionabovefalse}%
20618     \def\captionabove{\noalign{\global\@captionabovetrue}%
20619       \LT@caption}%
20620     \def\captionbelow{\noalign{\global\@captionabovefalse}%
20621       \LT@caption}%
20622     \scr@LT@array
20623   }%
20624   \ClassInfo{\KOMAClassName}{%
20625     longtable captions redefined%
20626   }%
20627   \fi
20628 }
20629
20630 \CloneTOCEntryStyle{tocline}{part}
20631 \TOCEntryStyleStartInitCode{part}{%
20632   \expandafter\renewcommand%
20633   \csname scr@tso@#1@linefill\endcsname{\hfill}%
20634   \expandafter\renewcommand%

```



```

20635 \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
20636 \expandafter\renewcommand%
20637 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
20638   {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
20639 \expandafter\renewcommand\expandafter*%
20640 \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
20641 }
20642
20643 \CloneTOCEntryStyle{tocline}{section}
20644 \TOCEntryStyleStartInitCode{section}{%
20645   \expandafter\renewcommand%
20646   \csname scr@tso@#1@linefill\endcsname{%
20647     \if@sectionentrywithdots
20648       {\usekomafont{sectionentrydots}{\TOCLineLeaderFill}}\relax
20649     \else
20650       \hfill
20651     \fi
20652   }%
20653   \expandafter\renewcommand%
20654   \csname scr@tso@#1@entryformat\endcsname{\usekomafont{sectionentry}}%
20655   \expandafter\renewcommand%
20656   \csname scr@tso@#1@pagenumberformat\endcsname[1]{\usekomafont{sectionentry}{\usekomafont{
20657   \expandafter\renewcommand\expandafter*%
20658   \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
20659 }
20660
20661 \CloneTOCEntryStyle{tocline}{subsection}
20662 \TOCEntryStyleStartInitCode{subsection}{%
20663   \expandafter\renewcommand%
20664   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
20665   \expandafter\renewcommand%
20666   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
20667     {\normalfont\normalcolor ##1}}%
20668 }
20669
20670 \CloneTOCEntryStyle{subsection}{default}
20671
20672 \DeclareSectionCommand[%
20673   style=section,%
20674   level=1,%
20675   indent=\z@,%
20676   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
20677   afterskip=2.3ex \@plus.2ex,%
20678   tocstyle=section,%
20679   tocindent=0pt,%
20680   tocnumwidth=1.5em%
20681 ]{section}
20682 \DeclareSectionCommand[%
20683   style=part,%
20684   level=\z@,%
20685   tocstyle=part,%
20686   toplevel=\m@ne,%
20687   tocindent=\z@,%
20688   tocnumwidth=2em%

```



```

20689 ]{part}
20690 \DeclareSectionCommand[%
20691   style=section,%
20692   level=2,%
20693   indent=\z@,%
20694   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
20695   afterskip=1.5ex \@plus .2ex,%
20696   tocstyle=subsection,%
20697   tocindent=1.5em,%
20698   tocnumwidth=2.3em%
20699 ]{subsection}
20700 \DeclareSectionCommand[%
20701   style=section,%
20702   level=3,%
20703   indent=\z@,%
20704   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
20705   afterskip=1.5ex \@plus .2ex,%
20706   tocstyle=subsection,%
20707   tocindent=3.8em,%
20708   tocnumwidth=3.2em%
20709 ]{subsubsection}
20710 \DeclareSectionCommand[%
20711   style=section,%
20712   level=4,%
20713   indent=\z@,%
20714   beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
20715   afterskip=-1em,%
20716   tocstyle=subsection,%
20717   tocindentfollows=subsubsection,%
20718   tocindent=7.0em,%
20719   tocnumwidth=4.1em%
20720 ]{paragraph}
20721 \DeclareSectionCommand[%
20722   style=section,%
20723   level=5,%
20724   indent=\scr@parindent,%
20725   beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
20726   afterskip=-1em,%
20727   tocstyle=subsection,%
20728   tocindent=10em,%
20729   tocnumwidth=5em%
20730 ]{subparagraph}

```

143 File scrbook-xetex-bidi.def

```

20731 \ProvidesFile{scrbook-xetex-bidi.def}[2025/09/30 v1.5 bidi adaptations for scrbook class for
20732 \newcommand{\scr@saved@LTRfootnotetext}{}
20733 \newcommand{\scr@saved@RTLfootnotetext}{}
20734 \let\scr@saved@footnotetext\@footnotetext
20735 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
20736 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
20737 \renewcommand{\@footnotetext}[1]{%
20738   \scr@saved@footnotetext{#1}%
20739   \csname FN@mfb@prepare\endcsname

```



```

20740 }
20741 \renewcommand{\@LTRfootnotetext}[1]{%
20742   \scr@saved@LTRfootnotetext{#1}%
20743   \csname FN@mfb@prepare\endcsname
20744 }
20745 \renewcommand{\@RTLfootnotetext}[1]{%
20746   \scr@saved@RTLfootnotetext{#1}%
20747   \csname FN@mfb@prepare\endcsname
20748 }
20749 \renewcommand\deffootnote[4][1]{%
20750   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
20751     \long\def\@makefntext##1{%
20752       \ExecuteDoHook{footnote/text/begin}%
20753       \raggedfootnote
20754       \if@RTL
20755         \rightskip
20756       \else
20757         \leftskip
20758       \fi
20759       #2
20760       \l@addto@macro\@trivlist{%
20761         \ifnum\@listdepth=\@ne\advance
20762           \if@RTL
20763             \rightmargin #2\relax
20764           \else
20765             \leftmargin #2\relax
20766           \fi
20767         \fi
20768       }%
20769       \parindent #3\noindent
20770       \IfArgIsEmpty{#1}{-}{%
20771         \hskip \dimexpr #1-#2\relax
20772       }%
20773       \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20774       \ExecuteDoHook{footnote/text/end}%
20775     }%
20776   \else
20777     \ClassInfo{\KOMAClassName}{%
20778       Using old \string\@makefntext\space due to compatibility
20779       level\MessageBreak
20780       less than 3.22}%
20781     \long\def\@makefntext##1{%
20782       \setlength{\@tempdimc}{#3}%
20783       \def\@tempa{#1}\ifx\@tempa\@empty
20784         \@setpar{\@par
20785           \@tempdima = \hsize
20786           \addtolength{\@tempdima}{-#2}%
20787           \if@RTL
20788             \parshape \@ne \z@ \@tempdima
20789           \else
20790             \parshape \@ne #2 \@tempdima
20791           \fi
20792         }%
20793       \else

```



```

20794      \addtolength{\@tempdimc}{#2}%
20795      \addtolength{\@tempdimc}{-#1}%
20796      \@setpar{\@par
20797          \@tempdima = \hsize
20798          \addtolength{\@tempdima}{-#1}%
20799          \@tempdimb = \hsize
20800          \addtolength{\@tempdimb}{-#2}%
20801          \ifRTL
20802              \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
20803          \else
20804              \parshape \tw@ #1 \@tempdima #2 \@tempdimb
20805          \fi
20806      }%
20807      \fi
20808      \par
20809      \parindent\@tempdimc\noindent
20810      \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20811  }%
20812  \fi
20813  \def\@makefnmark{\hbox{\ftn@font{#4}}}%
20814 }
20815 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
20816 \renewcommand*\left@footnoterule{%
20817     \normalsize\ftn@rule@test@values
20818     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20819     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20820     {\usekomafont{footnoterule}{%
20821         \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
20822     \kern 2.6\p@}
20823 \renewcommand*\right@footnoterule{%
20824     \normalsize\ftn@rule@test@values
20825     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20826     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20827     \nointerlineskip
20828     {\usekomafont{footnoterule}{%
20829         \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
20830         \kern 2.6\p@}
20831 \renewcommand*\maketitle[1][1]{%
20832     \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
20833     \else
20834         \def\and{%
20835             \end{tabular}%
20836             \hskip 1em \@plus.17fil%
20837             \begin{tabular}[t]{c}%
20838         }%
20839     \fi
20840     \if@titlepage
20841         \begin{titlepage}
20842             \setcounter{page}{%
20843                 #1%
20844             }%
20845             \if@titlepageiscoverpage
20846                 \edef\titlepage@restore{%
20847                     \noexpand\endgroup

```



```

20848         \noexpand\global\noexpand\@colht\the\@colht
20849         \noexpand\global\noexpand\@colroom\the\@colroom
20850         \noexpand\global\vsizethe\vsizethe
20851         \noexpand\global\noexpand\@titlepageiscoverpagefalse
20852         \noexpand\let\noexpand\titlepage@restore\noexpand\relax
20853     }%
20854     \begingroup
20855     \topmargin=\dimexpr \coverpagetopmargin-1in\relax
20856     \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
20857     \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
20858     \textwidth=\dimexpr
20859     \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
20860     \textheight=\dimexpr
20861     \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
20862     \headheight=0pt
20863     \headsep=0pt
20864     \footskip=\baselineskip
20865     \@colht=\textheight
20866     \@colroom=\textheight
20867     \vsizethe=\textheight
20868     \columnwidth=\textwidth
20869     \hsize=\columnwidth
20870     \linewidth=\hsize
20871     \else
20872         \let\titlepage@restore\relax
20873     \fi
20874     \let\footnotesize\small
20875     \let\right@footnoterule\relax
20876     \let\left@footnoterule\relax
20877     \let\textwidth@footnoterule\relax
20878     \let\footnote\thanks
20879     \let\LTRfootnote\LTRthanks
20880     \let\RTLfootnote\RTLthanks
20881     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20882     \let\@oldmakefnmark\@makefnmark
20883     \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
20884     \ifx\@extratitle\@empty
20885         \ifx\@frontispiece\@empty
20886             \else
20887                 \if@twoside\mbox{}\next@tpage\fi
20888                 \noindent\@frontispiece\next@tdpage
20889             \fi
20890         \else
20891             \noindent\@extratitle
20892             \ifx\@frontispiece\@empty
20893                 \else
20894                     \next@tpage
20895                     \noindent\@frontispiece
20896                 \fi
20897                 \next@tdpage
20898             \fi
20899     \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
20900     \ifx\@titlehead\@empty \else
20901         \begin{minipage}[t]{\textwidth}%

```




```

20902         \usekomafont{titlehead}{\@titlehead\par}%
20903     \end{minipage}\par
20904 \fi
20905 \null\vfill
20906 \begin{center}
20907     \ifx\@subject\@empty \else
20908         {\usekomafont{subject}{\@subject\par}}%
20909         \vskip 3em
20910     \fi
20911     {\usekomafont{title}{\huge \@title\par}}%
20912     \vskip 1em
20913     {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
20914     \vskip 2em
20915     {%
20916         \usekomafont{author}{%
20917             \lineskip 0.75em
20918             \begin{tabular}[t]{c}
20919                 \@author
20920             \end{tabular}\par
20921         }%
20922     }%
20923     \vskip 1.5em
20924     {\usekomafont{date}{\@date \par}}%
20925     \vskip \z@ \@plus3fill
20926     {\usekomafont{publishers}{\@publishers \par}}%
20927     \vskip 3em
20928 \end{center}\par
20929 \@thanks\global\let\@thanks\@empty
20930 \vfill\null
20931 \if@twoside
20932     \@tempswatrue
20933     \expandafter\ifnum \@nameuse{scr@v03.12}>\scr@compatibility\relax
20934     \else
20935         \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
20936             \@tempswafalse
20937         \fi\fi
20938     \fi
20939     \if@tempswa
20940         \next@tpage
20941         \begin{minipage}[t]{\textwidth}
20942             \@uppertitleback
20943         \end{minipage}\par
20944         \vfill
20945         \begin{minipage}[b]{\textwidth}
20946             \@lowertitleback
20947         \end{minipage}\par
20948         \@thanks\global\let\@thanks\@empty
20949     \fi
20950 \else
20951     \ifx\@uppertitleback\@empty\else
20952         \ClassWarning{\KOMAClassName}{%
20953             non empty \string\uppertitleback\space ignored
20954             by \string\maketitle\MessageBreak
20955             in `twoside=false' mode%

```



```

20956         }%
20957     \fi
20958     \ifx\@lowertitleback\@empty\else
20959         \ClassWarning{\KOMAClassName}{%
20960             non empty \string\lowertitleback\space ignored
20961             by \string\maketitle\MessageBreak
20962             in `twoside=false' mode%
20963         }%
20964     \fi
20965 \fi
20966 \ifx\@dedication\@empty
20967 \else
20968     \next@tdpage\null\vfill
20969     {\centering\usekomafont{dedication}{\@dedication \par}}%
20970     \vskip \z@ \@plus3fill
20971     \@thanks\global\let\@thanks\@empty
20972     \cleardoubleemptypage
20973 \fi
20974 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
20975 \end{titlepage}
20976 \else
20977     \par
20978     \@tempcnta=%
20979     #1%
20980     \relax\ifnum\@tempcnta=1\else
20981         \ClassWarning{\KOMAClassName}{%
20982             Optional argument of \string\maketitle\space ignored\MessageBreak
20983             in `titlepage=false' mode%
20984         }%
20985     \fi
20986     \ifx\@uppertitleback\@empty\else
20987         \ClassWarning{\KOMAClassName}{%
20988             non empty \string\uppertitleback\space ignored
20989             by \string\maketitle\MessageBreak
20990             in `titlepage=false' mode%
20991         }%
20992     \fi
20993     \ifx\@lowertitleback\@empty\else
20994         \ClassWarning{\KOMAClassName}{%
20995             non empty \string\lowertitleback\space ignored
20996             by \string\maketitle\MessageBreak
20997             in `titlepage=false' mode%
20998         }%
20999     \fi
21000 \beginngroup
21001     \let\titlepage@restore\relax
21002     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21003     \let\@oldmakefnmark\@makefnmark
21004     \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
21005     \next@tdpage
21006     \if@twocolumn
21007         \ifnum \col@number=\@one
21008             \ifx\@extratitle\@empty
21009                 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi

```



```

21010         \else
21011             \@makeextratitle
21012         \fi
21013         \ifx\@frontispiece\@empty
21014             \ifx\@extratitle\@empty\else\next@tdpage\fi
21015         \else
21016             \next@tpage
21017             \@makefrontispiece
21018             \next@tdpage
21019         \fi
21020         \@maketitle
21021     \else
21022         \ifx\@extratitle\@empty
21023             \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21024         \else
21025             \twocolumn[\@makeextratitle]%
21026         \fi
21027         \ifx\@frontispiece\@empty
21028             \ifx\@extratitle\@empty\else\next@tdpage\fi
21029         \else
21030             \next@tpage
21031             \twocolumn[\@makefrontispiece]%
21032             \next@tdpage
21033         \fi
21034         \twocolumn[\@maketitle]%
21035     \fi
21036 \else
21037     \ifx\@extratitle\@empty
21038         \ifx\@frontispiece\@empty\else \mbox{}\fi
21039     \else
21040         \@makeextratitle
21041     \fi
21042     \ifx\@frontispiece\@empty
21043         \ifx\@extratitle\@empty\else\next@tdpage\fi
21044     \else
21045         \next@tpage
21046         \@makefrontispiece
21047         \next@tdpage
21048     \fi
21049     \@maketitle
21050 \fi
21051 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
21052 \@thanks\global\let\@thanks\@empty
21053 \endgroup
21054 \fi
21055 \setcounter{footnote}{0}%
21056 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21057     \let\thanks\relax
21058     \let\LTRthanks\relax
21059     \let\RTLthanks\relax
21060     \let\maketitle\relax
21061     \let\@maketitle\relax
21062     \global\let\@thanks\@empty
21063     \global\let\@author\@empty

```



```

21064 \global\let\@date\@empty
21065 \global\let\@title\@empty
21066 \global\let\@subtitle\@empty
21067 \global\let\@extratitle\@empty
21068 \global\let\@frontispiece\@empty
21069 \global\let\@titlehead\@empty
21070 \global\let\@subject\@empty
21071 \global\let\@publishers\@empty
21072 \global\let\@uppertitleback\@empty
21073 \global\let\@lowertitleback\@empty
21074 \global\let\@dedication\@empty
21075 \global\let\author\relax
21076 \global\let\title\relax
21077 \global\let\extratitle\relax
21078 \global\let\titlehead\relax
21079 \global\let\subject\relax
21080 \global\let\publishers\relax
21081 \global\let\uppertitleback\relax
21082 \global\let\lowertitleback\relax
21083 \global\let\dedication\relax
21084 \global\let\date\relax
21085 \fi
21086 \global\let\and\relax
21087 }%
21088 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
21089 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
21090 \renewcommand*\thesection{%
21091 \expandafter\ifnum\scr@v@is>{2.97d}%
21092 \if@mainmatter\thechapter\@SepMark\fi
21093 \else
21094 \thechapter\@SepMark%
21095 \fi
21096 \@arabic\c@section
21097 }
21098 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
21099 \renewcommand*\thesubsubsection{%
21100 \thesubsection\@SepMark\@arabic\c@subsubsection
21101 }
21102 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
21103 \renewcommand*\thesubparagraph{%
21104 \theparagraph\@SepMark\@arabic\c@subparagraph
21105 }
21106 \expandafter\ifnum\scr@v@is<{2.97d}%
21107 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
21108 \fi
21109 \expandafter\ifnum\scr@v@is<{2.97d}%
21110 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
21111 \fi
21112 \renewcommand*\theequation{%
21113 \expandafter\ifnum\scr@v@is>{2.97d}%
21114 \if@mainmatter\thechapter\@SepMark\fi
21115 \else
21116 \thechapter\@SepMark%
21117 \fi

```



```

21118 \@arabic\c@equation
21119 }
21120 \renewenvironment{thebibliography}[1]{%
21121   \if@bib@break@
21122     \bib@beginhook
21123   \else
21124     \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
21125       \setchapterpreamble{\bibpreamble}%
21126     \fi\fi
21127     \bib@heading
21128     \bib@beginhook
21129     \bib@before@hook
21130   \fi
21131   \renewcommand{\BreakBibliography}[1]{%
21132     \@bib@break
21133     \end{thebibliography}%
21134     \begingroup ##1\endgroup
21135     \begin{thebibliography}{#1}
21136   }%
21137   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21138   \bidi@thebibliography@font@hook%
21139   \list{%
21140     \@biblabel{\@arabic\c@enumiv}%
21141   }{%
21142     \settowidth\labelwidth{\@biblabel{#1}}%
21143     \leftmargin\labelwidth
21144     \advance\leftmargin\labelsep
21145     \@openbib@code
21146     \if@bib@break@
21147       \edef\@tempa{%
21148         \noexpand\usecounter{enumiv}%
21149         \noexpand\setcounter{enumiv}{\the\c@enumiv}%
21150       }\@tempa
21151       \no@bib@break
21152     \else
21153       \usecounter{enumiv}%
21154     \fi
21155     \let\p@enumiv\@empty
21156     \renewcommand*\theenumiv{\@arabic\c@enumiv}%
21157   }%
21158   \sloppy\clubpenalty4000 \widowpenalty4000
21159   \sfcode`\.\@m
21160 }{%
21161   \if@bib@break@
21162     \def\@noitemerr{%
21163       \@latex@warning{%
21164         \string\BreakBibliography\space at begin of `thebibliography'
21165         environment\MessageBreak
21166         or following \string\BreakBibliography}%
21167     }%
21168   \else
21169     \def\@noitemerr{%
21170       \@latex@warning{%
21171         Empty `thebibliography' environment or

```



```

21172         \string\BreakBibliography\MessageBreak
21173         before end of `thebibliography' environment}%
21174     }%
21175 \fi
21176 \endlist
21177 \if@bib@break@
21178 \else
21179     \bib@after@hook
21180     \let\bib@before@hook\@empty
21181     \let\bib@after@hook\@empty
21182 \fi
21183 \bib@endhook
21184 }
21185 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
21186 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
21187 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
21188 \renewcommand\marginline[1]{%
21189     \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\fi{#1}}
21190 }
21191 \renewcommand{\@@makecaption}[3]{%
21192     \cap@margin
21193     \begingroup
21194         \ifonelinecaptions
21195             \def\stepcounter##1{\advance\value{##1}\@one}%
21196             \let\refstepcounter\stepcounter
21197             \let\label\@gobble
21198             \let\@footnotetext=\@gobble
21199             \let\@LTRfootnotetext=\@gobble
21200             \let\@RTLfootnotetext=\@gobble
21201             \let\hypertarget\@gobbletwo
21202             \edef\@xnewline{%
21203                 \unexpanded{\ClassInfo{\KOMAClassName}}{%
21204                     Workaround for not recommended usage of \string\\ or\MessageBreak
21205                     \string\newline in caption text
21206                 }%
21207                 \hspace*{\linewidth}\hspace{1sp}%
21208             }%
21209             \unexpanded\expandafter{\@xnewline}%
21210         }%
21211         \edef\@xcentercr{%
21212             \unexpanded{\ClassInfo{\KOMAClassName}}{%
21213                 Workaround for not recommended usage of \string\\ or\MessageBreak
21214                 \string\newline in caption text
21215             }%
21216             \hspace*{\linewidth}\hspace{1sp}%
21217         }%
21218             \unexpanded\expandafter{\@xcentercr}%
21219         }%
21220         \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
21221         \ifdim\@tempdima>\cap@width
21222             \aftergroup\scr@makemultilinecaption
21223         \else
21224             \aftergroup\scr@makesinglelinecaption
21225         \fi

```



```

21226 \else
21227 \aftergroup\scr@makemultilinecaption
21228 \fi
21229 \endgroup
21230 {#1}{#2}{#3}%
21231 }
21232 \renewcommand{\scr@makesinglelinecaption}[3]{%
21233 {%
21234 \usefontofkomafont{caption}{%
21235 \hb@xt@{hsize}{%
21236 \cap@left
21237 \if@RTL
21238 \beginR
21239 \fi
21240 \scr@@makesinglelinecaption{#1}{#2}{#3}%
21241 \if@RTL
21242 \endR
21243 \fi
21244 \cap@right
21245 }\par\kern\dp\strutbox%
21246 }%
21247 }\kern-\dp\strutbox
21248 }
21249 \renewcommand{\@makecaption}[2]{%
21250 \if@captionabove
21251 \vskip\belowcaptionskip
21252 \else
21253 \vskip\abovecaptionskip
21254 \fi
21255 \@@makecaption\@firstofone{#1}{#2}%
21256 \if@captionabove
21257 \vskip\abovecaptionskip
21258 \else
21259 \vskip\belowcaptionskip
21260 \fi
21261 }
21262
21263 \renewcommand{\scr@@makesinglelinecaption}[3]{%
21264 {\usekomafont{caption}{\strut\ignorespaces
21265 #1{\usekomafont{captionlabel}{#2\captionformat}}}%
21266 \ignorespaces #3\unskip}}%
21267 }
21268
21269 \renewcommand{\scr@makemultilinecaption}[3]{%
21270 {%
21271 \usefontofkomafont{caption}{%
21272 \hb@xt@{hsize}{%
21273 \cap@left
21274 \vbox{hsize\cap@width\linewidthhsize
21275 \scr@ifundefinedorrelax{@cptype}{%
21276 \ClassWarning{KOMAClassName}{%
21277 `string\caption' outside float.\MessageBreak
21278 Seems you are using `string\caption' outside a
21279 float.\MessageBreak

```



```

21280      Maybe you are using a package that uses
21281      `string\@makecaption'\MessageBreak
21282      without setting `string\@captype' before.\MessageBreak
21283      Because I cannot detect the caption type, I'm using\MessageBreak
21284      the empty one.%
21285      }%
21286      \let\@captype\@empty
21287    }{}%
21288    \scr@ifundefinedorrelax{ragged\@captype caption}{\raggedcaption}{%
21289      \@nameuse{ragged\@captype caption}%
21290    }%
21291    \ifdofullc@p
21292      \@hangfrom{%
21293        \strut
21294        \scr@smashdp{%
21295          #1{%
21296            \usekomafont{caption}{%
21297              \usekomafont{captionlabel}{#2\captionformat}%
21298            }%
21299          }%
21300        }%
21301      }%
21302      {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21303    \else
21304      \ifdim\cap@indent<\z@
21305        \strut
21306        #1{%
21307          {\usekomafont{caption}{%
21308            \usekomafont{captionlabel}{#2\captionformat}%
21309          }%
21310        }\par}%
21311        \noindent{{\usekomafont{caption}{%
21312          \hspace*{-\cap@indent}#3\scr@endstrut
21313        }}\par}%
21314      \else
21315        \if@capbreak
21316          \strut
21317          #1{%
21318            {\usekomafont{caption}{%
21319              \usekomafont{captionlabel}{#2\captionformat}%
21320            }
21321          }\par}%
21322          \noindent\@hangfrom{\hspace*{\cap@indent}}%
21323          {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21324        \else
21325          \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
21326          {%
21327            \hspace{-\cap@indent}%
21328            \scr@smashdp{%
21329              #1{\usekomafont{caption}{%
21330                \usekomafont{captionlabel}{#2\captionformat}%
21331              }%
21332            }%
21333          }%

```




```

21334         {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21335     }%
21336     \fi
21337     \fi
21338     \fi
21339 }%
21340 \cap@right
21341 }\par\kern\dp\strutbox
21342 }%
21343 }\kern-\dp\strutbox
21344 }
21345
21346
21347 \bidi@AfterFile{longtable-xetex-bidi.def}{%
21348   \if@komalongtable
21349     \renewcommand{\LT@makecaption}[3]{%
21350       \LT@mc\LT@cols c{%
21351         \hbox to\z@{\hss\parbox[t]{\linewidth{%
21352           \if@captionabove\else\vskip\belowcaptionskip\fi
21353           \@makecaption{#1}{#2}{#3}%
21354           \endgraf
21355           \if@captionabove\vskip\abovecaptionskip\fi
21356         }}%
21357         \hss
21358       }%
21359     }%
21360   }%
21361   \renewcommand*\scr@LT@array{}%
21362   \let\scr@LT@array=\LT@array
21363   \renewcommand*\LT@array{%
21364     \def\@captive{table}%
21365     \@ifundefined{LTcaptive}{}{%
21366       \Ifstr{\LTcaptive}{}{}{\let\@captive\LTcaptive}%
21367     }%
21368     \csname tocbasic_if_caption_above:TF\endcsname
21369     {\@captionabovetrue}{\@captionabovetrue}%
21370     \def\captionabove{\noalign{\global\@captionabovetrue}%
21371       \LT@caption}%
21372     \def\captionbelow{\noalign{\global\@captionabovetrue}%
21373       \LT@caption}%
21374     \scr@LT@array
21375   }%
21376   \ClassInfo{\KOMAClassName}{%
21377     longtable captions redefined%
21378   }%
21379   \fi
21380 }
21381
21382 \CloneTOCEntryStyle{tocline}{part}
21383 \TOCEntryStyleStartInitCode{part}{%
21384   \expandafter\renewcommand%
21385   \csname scr@tso@#1@linefill\endcsname{\hfill}%
21386   \expandafter\renewcommand%
21387   \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%

```



```

21388 \expandafter\renewcommand%
21389 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21390   {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
21391 \expandafter\renewcommand\expandafter*%
21392 \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
21393 }
21394
21395 \CloneTOCEntryStyle{tocline}{chapter}
21396 \TOCEntryStyleStartInitCode{chapter}{%
21397   \expandafter\renewcommand%
21398   \csname scr@tso@#1@linefill\endcsname{%
21399     \if@chapterentrywithdots
21400       {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
21401     \else
21402       \hfill
21403     \fi
21404   }%
21405   \expandafter\renewcommand%
21406   \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
21407   \expandafter\renewcommand%
21408   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21409     {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
21410   \expandafter\renewcommand\expandafter*%
21411   \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
21412 }
21413
21414 \CloneTOCEntryStyle{tocline}{section}
21415 \TOCEntryStyleStartInitCode{section}{%
21416   \expandafter\renewcommand%
21417   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
21418   \expandafter\renewcommand%
21419   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21420     {\normalfont\normalcolor ##1}}%
21421 }
21422
21423 \CloneTOCEntryStyle{section}{default}
21424
21425 \DeclareSectionCommand[%
21426   style=chapter,%
21427   level=\z@,%
21428   pagestyle=plain,%
21429   tocstyle=chapter,%
21430   tocindent=\z@,%
21431   tocnumwidth=1.5em%
21432 ]{chapter}
21433 \DeclareSectionCommand[%
21434   style=section,%
21435   level=1,%
21436   indent=\z@,%
21437   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
21438   afterskip=2.3ex \@plus.2ex,%
21439   tocstyle=section,%
21440   tocindentfollows=chapter,%
21441   tocindent=1.5em,%

```



```

21442   tocnumwidth=2.3em%
21443 ]{section}
21444 \DeclareSectionCommand[%
21445   style=part,%
21446   level=\m@ne,%
21447   pagestyle=plain,%
21448   tocstyle=part,%
21449   toplevel=\m@ne,%
21450   tocindent=\z@,%
21451   tocnumwidth=2em%
21452 ]{part}
21453 \DeclareSectionCommand[%
21454   style=section,%
21455   level=2,%
21456   indent=\z@,%
21457   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
21458   afterskip=1.5ex \@plus .2ex,%
21459   tocstyle=section,%
21460   tocindent=3.8em,%
21461   tocnumwidth=3.2em%
21462 ]{subsection}
21463 \DeclareSectionCommand[%
21464   style=section,%
21465   level=3,%
21466   indent=\z@,%
21467   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
21468   afterskip=1.5ex \@plus .2ex,%
21469   tocstyle=section,%
21470   tocindent=7.0em,%
21471   tocnumwidth=4.1em%
21472 ]{subsubsection}
21473 \DeclareSectionCommand[%
21474   style=section,%
21475   level=4,%
21476   indent=\z@,%
21477   beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
21478   afterskip=-1em,%
21479   tocindentfollows=subsubsection,%
21480   tocstyle=section,%
21481   tocindent=10em,%
21482   tocnumwidth=5em%
21483 ]{paragraph}
21484 \DeclareSectionCommand[%
21485   style=section,%
21486   level=5,%
21487   indent=\scr@parindent,%
21488   beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
21489   afterskip=-1em,%
21490   tocstyle=section,%
21491   tocindent=12em,%
21492   tocnumwidth=6em%
21493 ]{subparagraph}

```



144 File scrreprt-xetex-bidi.def

```

21494 \ProvidesFile{scrreprt-xetex-bidi.def}[2025/09/30 v1.5 bidi adaptations for scrreprt class f
21495 \newcommand{\scr@saved@LTRfootnotetext}{}
21496 \newcommand{\scr@saved@RTLfootnotetext}{}
21497 \let\scr@saved@footnotetext\@footnotetext
21498 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
21499 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
21500 \renewcommand{\@footnotetext}[1]{%
21501   \scr@saved@footnotetext{#1}%
21502   \csname FN@mfb@prepare\endcsname
21503 }
21504 \renewcommand{\@LTRfootnotetext}[1]{%
21505   \scr@saved@LTRfootnotetext{#1}%
21506   \csname FN@mfb@prepare\endcsname
21507 }
21508 \renewcommand{\@RTLfootnotetext}[1]{%
21509   \scr@saved@RTLfootnotetext{#1}%
21510   \csname FN@mfb@prepare\endcsname
21511 }
21512 \renewcommand\deffootnote[4][]{%
21513   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
21514     \long\def\@makefntext##1{%
21515       \ExecuteDoHook{footnote/text/begin}%
21516       \raggedfootnote
21517       \if@RTL
21518         \rightskip
21519       \else
21520         \leftskip
21521       \fi
21522       #2
21523       \l@addto@macro\@trivlist{%
21524         \ifnum\@listdepth=\@ne
21525           \if@RTL
21526             \advance\rightmargin #2\relax
21527           \else
21528             \advance\leftmargin #2\relax
21529           \fi
21530         \fi
21531       }%
21532       \parindent #3\noindent
21533       \IfArgIsEmpty{#1}{}{%
21534         \hskip \dimexpr #1-#2\relax
21535       }%
21536       \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21537       \ExecuteDoHook{footnote/text/end}%
21538     }%
21539   \else
21540     \ClassInfo{\KOMAClassName}{%
21541       Using old \string\@makefntext\space due to compatibility
21542       level\MessageBreak
21543       less than 3.22}%
21544     \long\def\@makefntext##1{%
21545       \setlength{\@tempdimc}{#3}%

```



```

21546 \def\@tempa{#1}\ifx\@tempa\@empty
21547 \setpar{\@par
21548 \@tempdima = \hspace
21549 \addtolength{\@tempdima}{-#2}%
21550 \if@RTL
21551 \parshape \@ne \z@ \@tempdima
21552 \else
21553 \parshape \@ne #2 \@tempdima
21554 \fi
21555 }%
21556 \else
21557 \addtolength{\@tempdimc}{#2}%
21558 \addtolength{\@tempdimc}{-#1}%
21559 \setpar{\@par
21560 \@tempdima = \hspace
21561 \addtolength{\@tempdima}{-#1}%
21562 \@tempdimb = \hspace
21563 \addtolength{\@tempdimb}{-#2}%
21564 \if@RTL
21565 \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
21566 \else
21567 \parshape \tw@ #1 \@tempdima #2 \@tempdimb
21568 \fi
21569 }%
21570 \fi
21571 \par
21572 \parindent\@tempdimc\noindent
21573 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21574 }%
21575 \fi
21576 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
21577 }
21578 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
21579 \renewcommand*\left@footnoterule{%
21580 \normalsize\ftn@rule@test@values
21581 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21582 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21583 {\usekomafont{footnoterule}}{%
21584 \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
21585 \kern 2.6\p@}
21586 \renewcommand*\right@footnoterule{%
21587 \normalsize\ftn@rule@test@values
21588 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21589 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21590 \nointerlineskip
21591 {\usekomafont{footnoterule}}{%
21592 \hbox to \columnwidth{\hspace \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
21593 \kern 2.6\p@}
21594 \renewcommand*\maketitle[1][1]{%
21595 \expandafter\ifnum \cscname scr@v3.12\endcsname>\scr@compatibility\relax
21596 \else
21597 \def\and{%
21598 \end{tabular}}%
21599 \hspace 1em \@plus.17fil%

```



```

21600     \begin{tabular}[t]{c}%
21601     }%
21602 \fi
21603 \if@titlepage
21604     \begin{titlepage}
21605         \setcounter{page}{%
21606             #1%
21607         }%
21608         \if@titlepageiscoverpage
21609             \edef\titlename@restore{%
21610                 \noexpand\endgroup
21611                 \noexpand\global\noexpand\@colht\the\@colht
21612                 \noexpand\global\noexpand\@colroom\the\@colroom
21613                 \noexpand\global\vsizethe\vsizethe
21614                 \noexpand\global\noexpand\@titlepageiscoverpagefalse
21615                 \noexpand\let\noexpand\titlename@restore\noexpand\relax
21616             }%
21617             \begingroup
21618             \topmargin=\dimexpr \coverpagetopmargin-1in\relax
21619             \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
21620             \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
21621             \textwidth=\dimexpr
21622             \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
21623             \textheight=\dimexpr
21624             \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
21625             \headheight=0pt
21626             \headsep=0pt
21627             \footskip=\baselineskip
21628             \@colht=\textheight
21629             \@colroom=\textheight
21630             \vsizethe=\textheight
21631             \columnwidth=\textwidth
21632             \hsize=\columnwidth
21633             \linewidth=\hsize
21634         \else
21635             \let\titlename@restore\relax
21636         \fi
21637         \let\footnotesize\small
21638         \let\right@footnoterule\relax
21639         \let\left@footnoterule\relax
21640         \let\textwidth@footnoterule\relax
21641         \let\footnote\thanks
21642         \let\LTRfootnote\LTRthanks
21643         \let\RTLfootnote\RTLthanks
21644         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21645         \let\@oldmakefnmark\@makefnmark
21646         \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
21647         \ifx\extratitle\@empty
21648             \ifx\frontispiece\@empty
21649                 \else
21650                     \if@twoside\mbox{}\next@tpage\fi
21651                     \noindent\@frontispiece\next@tdpage
21652                 \fi
21653             \else

```



```

21654 \noindent\@extratitle
21655 \ifx\@frontispiece\@empty
21656 \else
21657 \next@tpage
21658 \noindent\@frontispiece
21659 \fi
21660 \next@tdpage
21661 \fi
21662 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@update relative
21663 \ifx\@titlehead\@empty \else
21664 \begin{minipage}[t]{\textwidth}%
21665 \usekomafont{titlehead}{\@titlehead\par}%
21666 \end{minipage}\par
21667 \fi
21668 \null\vfill
21669 \begin{center}
21670 \ifx\@subject\@empty \else
21671 {\usekomafont{subject}{\@subject\par}}%
21672 \vskip 3em
21673 \fi
21674 {\usekomafont{title}{\huge \@title\par}}%
21675 \vskip 1em
21676 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
21677 \vskip 2em
21678 {%
21679 \usekomafont{author}{%
21680 \lineskip 0.75em
21681 \begin{tabular}[t]{c}
21682 \@author
21683 \end{tabular}\par
21684 }%
21685 }%
21686 \vskip 1.5em
21687 {\usekomafont{date}{\@date \par}}%
21688 \vskip \z@ \@plus3fill
21689 {\usekomafont{publishers}{\@publishers \par}}%
21690 \vskip 3em
21691 \end{center}\par
21692 \@thanks\global\let\@thanks\@empty
21693 \vfill\null
21694 \if@twoside
21695 \@tempwattrue
21696 \expandafter\ifnum \@nameuse{scr@v03.12}>\scr@compatibility\relax
21697 \else
21698 \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
21699 \@tempwafalse
21700 \fi\fi
21701 \fi
21702 \if@tempwa
21703 \next@tpage
21704 \begin{minipage}[t]{\textwidth}
21705 \@uppertitleback
21706 \end{minipage}\par
21707 \vfill

```



```

21708         \begin{minipage}[b]{\textwidth}
21709             \@lowertitleback
21710         \end{minipage}\par
21711         \@thanks\global\let\@thanks\@empty
21712     \fi
21713 \else
21714     \ifx\@uppertitleback\@empty\else
21715         \ClassWarning{\KOMAClassName}{%
21716             non empty \string\uppertitleback\space ignored
21717             by \string\maketitle\MessageBreak
21718             in `twoside=false' mode%
21719         }%
21720     \fi
21721     \ifx\@lowertitleback\@empty\else
21722         \ClassWarning{\KOMAClassName}{%
21723             non empty \string\lowertitleback\space ignored
21724             by \string\maketitle\MessageBreak
21725             in `twoside=false' mode%
21726         }%
21727     \fi
21728 \fi
21729 \ifx\@dedication\@empty
21730 \else
21731     \next@tdpage\null\vfill
21732     {\centering\usekomafont{dedication}{\@dedication \par}}%
21733     \vskip \z@ \@plus3fill
21734     \@thanks\global\let\@thanks\@empty
21735     \cleardoubleemptypage
21736 \fi
21737 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
21738 \end{titlepage}
21739 \else
21740     \par
21741     \@tempcnta=%
21742     #1%
21743     \relax\ifnum\@tempcnta=1\else
21744         \ClassWarning{\KOMAClassName}{%
21745             Optional argument of \string\maketitle\space ignored\MessageBreak
21746             in `titlepage=false' mode%
21747         }%
21748     \fi
21749     \ifx\@uppertitleback\@empty\else
21750         \ClassWarning{\KOMAClassName}{%
21751             non empty \string\uppertitleback\space ignored
21752             by \string\maketitle\MessageBreak
21753             in `titlepage=false' mode%
21754         }%
21755     \fi
21756     \ifx\@lowertitleback\@empty\else
21757         \ClassWarning{\KOMAClassName}{%
21758             non empty \string\lowertitleback\space ignored
21759             by \string\maketitle\MessageBreak
21760             in `titlepage=false' mode%
21761         }%

```




```

21762 \fi
21763 \begingroup
21764 \let\titlepage@restore\relax
21765 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21766 \let\@oldmakefnmark\@makefnmark
21767 \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
21768 \next@tdpage
21769 \if@twocolumn
21770 \ifnum \col@number=\@one
21771 \ifx\@extratitle\@empty
21772 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21773 \else
21774 \@makeextratitle
21775 \fi
21776 \ifx\@frontispiece\@empty
21777 \ifx\@extratitle\@empty\else\next@tdpage\fi
21778 \else
21779 \next@tpage
21780 \@makefrontispiece
21781 \next@tdpage
21782 \fi
21783 \@maketitle
21784 \else
21785 \ifx\@extratitle\@empty
21786 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21787 \else
21788 \twocolumn[\@makeextratitle]%
21789 \fi
21790 \ifx\@frontispiece\@empty
21791 \ifx\@extratitle\@empty\else\next@tdpage\fi
21792 \else
21793 \next@tpage
21794 \twocolumn[\@makefrontispiece]%
21795 \next@tdpage
21796 \fi
21797 \twocolumn[\@maketitle]%
21798 \fi
21799 \else
21800 \ifx\@extratitle\@empty
21801 \ifx\@frontispiece\@empty\else \mbox{}\fi
21802 \else
21803 \@makeextratitle
21804 \fi
21805 \ifx\@frontispiece\@empty
21806 \ifx\@extratitle\@empty\else\next@tdpage\fi
21807 \else
21808 \next@tpage
21809 \@makefrontispiece
21810 \next@tdpage
21811 \fi
21812 \@maketitle
21813 \fi
21814 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
21815 \@thanks\global\let\@thanks\@empty

```



```

21816 \endgroup
21817 \fi
21818 \setcounter{footnote}{0}%
21819 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21820 \let\thanks\relax
21821 \let\LTRthanks\relax
21822 \let\RTLthanks\relax
21823 \let\maketitle\relax
21824 \let\@maketitle\relax
21825 \global\let\@thanks\@empty
21826 \global\let\@author\@empty
21827 \global\let\@date\@empty
21828 \global\let\@title\@empty
21829 \global\let\@subtitle\@empty
21830 \global\let\@extratitle\@empty
21831 \global\let\@frontispiece\@empty
21832 \global\let\@titlehead\@empty
21833 \global\let\@subject\@empty
21834 \global\let\@publishers\@empty
21835 \global\let\@uppertitleback\@empty
21836 \global\let\@lowertitleback\@empty
21837 \global\let\@dedication\@empty
21838 \global\let\author\relax
21839 \global\let\title\relax
21840 \global\let\extratitle\relax
21841 \global\let\titlehead\relax
21842 \global\let\subject\relax
21843 \global\let\publishers\relax
21844 \global\let\uppertitleback\relax
21845 \global\let\lowertitleback\relax
21846 \global\let\dedication\relax
21847 \global\let\date\relax
21848 \fi
21849 \global\let\and\relax
21850 }%
21851 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
21852 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
21853 \renewcommand*\thesection{%
21854 \thechapter\@SepMark%
21855 \@arabic\c@section
21856 }
21857 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
21858 \renewcommand*\thesubsubsection{%
21859 \thesubsection\@SepMark\@arabic\c@subsubsection
21860 }
21861 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
21862 \renewcommand*\thesubparagraph{%
21863 \theparagraph\@SepMark\@arabic\c@subparagraph
21864 }
21865 \expandafter\ifnum\scr@v@is@le{2.97d}%
21866 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
21867 \fi
21868 \expandafter\ifnum\scr@v@is@le{2.97d}%
21869 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}

```



```

21870 \fi
21871 \renewcommand*\theequation{%
21872   \thechapter\@SepMark%
21873   \@arabic\c@equation
21874 }
21875 \renewenvironment{thebibliography}[1]{%
21876   \if@bib@break@
21877     \bib@beginhook
21878   \else
21879     \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
21880       \setchapterpreamble{\bibpreamble}%
21881     \fi\fi
21882     \bib@heading
21883     \bib@beginhook
21884     \bib@before@hook
21885   \fi
21886   \renewcommand{\BreakBibliography}[1]{%
21887     \@bib@break
21888     \end{thebibliography}%
21889     \begingroup ##1\endgroup
21890     \begin{thebibliography}{#1}
21891   }%
21892   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21893   \bidi@thebibliography@font@hook%
21894   \list{%
21895     \@biblabel{\@arabic\c@enumiv}%
21896   }{%
21897     \settowidth\labelwidth{\@biblabel{#1}}%
21898     \leftmargin\labelwidth
21899     \advance\leftmargin\labelsep
21900     \@openbib@code
21901     \if@bib@break@
21902       \edef\@tempa{%
21903         \noexpand\usecounter{enumiv}%
21904         \noexpand\setcounter{enumiv}{\the\c@enumiv}%
21905       }\@tempa
21906       \no@bib@break
21907     \else
21908       \usecounter{enumiv}%
21909     \fi
21910     \let\p@enumiv\@empty
21911     \renewcommand*\theenumiv{\@arabic\c@enumiv}%
21912   }%
21913   \sloppy\clubpenalty4000 \widowpenalty4000
21914   \sfcode`\.=\@m
21915 }{%
21916   \if@bib@break@
21917     \def\@noitemerr{%
21918       \@latex@warning{%
21919         \string\BreakBibliography\space at begin of `thebibliography'
21920         environment\MessageBreak
21921         or following \string\BreakBibliography}%
21922     }%
21923   \else

```



```

21924 \def\@noitemerr{%
21925 \latex@warning{%
21926 Empty `thebibliography' environment or
21927 \string\BreakBibliography\MessageBreak
21928 before end of `thebibliography' environment}%
21929 }%
21930 \fi
21931 \endlist
21932 \if@bib@break@
21933 \else
21934 \bib@after@hook
21935 \let\bib@before@hook\@empty
21936 \let\bib@after@hook\@empty
21937 \fi
21938 \bib@endhook
21939 }
21940 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
21941 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
21942 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
21943 \renewcommand\marginline[1]{%
21944 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
21945 }
21946 \renewcommand{\@makecaption}[3]{%
21947 \cap@margin
21948 \begingroup
21949 \ifonelinecaptions
21950 \def\stepcounter##1{\advance\value{##1}\@ne}%
21951 \let\refstepcounter\stepcounter
21952 \let\label\@gobble
21953 \let\@footnotetext=\@gobble
21954 \let\@LTRfootnotetext=\@gobble
21955 \let\@RTLfootnotetext=\@gobble
21956 \let\hypertarget\@gobbletwo
21957 \edef\@xnewline{%
21958 \unexpanded{\ClassInfo{\KOMAClassName}{%
21959 Workaround for not recommended usage of \string\ or\MessageBreak
21960 \string\newline in caption text
21961 }%
21962 \hspace*{\linewidth}\hspace{1sp}%
21963 }%
21964 \unexpanded\expandafter{\@xnewline}%
21965 }%
21966 \edef\@xcentercr{%
21967 \unexpanded{\ClassInfo{\KOMAClassName}{%
21968 Workaround for not recommended usage of \string\ or\MessageBreak
21969 \string\newline in caption text
21970 }%
21971 \hspace*{\linewidth}\hspace{1sp}%
21972 }%
21973 \unexpanded\expandafter{\@xcentercr}%
21974 }%
21975 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
21976 \ifdim\@tempdima>\cap@width
21977 \aftergroup\scr@makemultilinecaption

```



```

21978         \else
21979             \aftergroup\scr@makesinglelinecaption
21980         \fi
21981     \else
21982         \aftergroup\scr@makemultilinecaption
21983     \fi
21984 \endgroup
21985 {#1}{#2}{#3}%
21986 }
21987 \renewcommand{\scr@makesinglelinecaption}[3]{%
21988     {%
21989         \usefontofkomafont{caption}{%
21990             \hb@xt@{\hsize{%
21991                 \cap@left
21992                 \if@RTL
21993                     \beginR
21994                     \fi
21995                     \scr@@makesinglelinecaption{#1}{#2}{#3}%
21996                 \if@RTL
21997                     \endR
21998                 \fi
21999                 \cap@right
22000             }\par\kern\dp\strutbox%
22001             }%
22002         }\kern-\dp\strutbox
22003     }
22004 \renewcommand{\@makecaption}[2]{%
22005     \if@captionabove
22006         \vskip\belowcaptionskip
22007     \else
22008         \vskip\abovecaptionskip
22009     \fi
22010     \@makecaption\@firstofone{#1}{#2}%
22011     \if@captionabove
22012         \vskip\abovecaptionskip
22013     \else
22014         \vskip\belowcaptionskip
22015     \fi
22016 }
22017
22018 \renewcommand{\scr@@makesinglelinecaption}[3]{%
22019     {\usekomafont{caption}{\strut\ignorespaces
22020         #1{\usekomafont{captionlabel}{#2\captionformat}}}%
22021         \ignorespaces #3\unskip}}%
22022 }
22023
22024 \renewcommand{\scr@makemultilinecaption}[3]{%
22025     {%
22026         \usefontofkomafont{caption}{%
22027             \hb@xt@{\hsize{%
22028                 \cap@left
22029                 \vbox{\hsize\cap@width\linewidth\hsize
22030                     \scr@ifundefinedorrelax{@captive}{%
22031                         \ClassWarning{\KOMAClassName}{%

```



```

22032         '\string\caption' outside float.\MessageBreak
22033     Seems you are using '\string\caption' outside a
22034     float.\MessageBreak
22035     Maybe you are using a package that uses
22036     '\string\@makecaption'\MessageBreak
22037     without setting '\string\@captype' before.\MessageBreak
22038     Because I cannot detect the caption type, I'm using\MessageBreak
22039     the empty one.%
22040     }%
22041     \let\@captype\@empty
22042 }{}%
22043 \scr@ifundefinedorrelax{ragged\@captype caption}{\raggedcaption}{%
22044     \@nameuse{ragged\@captype caption}%
22045 }%
22046 \ifdofullc@p
22047     \@hangfrom{%
22048         \strut
22049         \scr@smashdp{%
22050             #1{%
22051                 \usekomafont{caption}{%
22052                     \usekomafont{captionlabel}{#2\captionformat}%
22053                 }%
22054             }%
22055         }%
22056     }%
22057     {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22058 \else
22059     \ifdim\cap@indent<\z@
22060         \strut
22061         #1{%
22062             {\usekomafont{caption}{%
22063                 \usekomafont{captionlabel}{#2\captionformat}%
22064             }%
22065         }\par}%
22066         \noindent{{\usekomafont{caption}{%
22067             \hspace*{-\cap@indent}#3\scr@endstrut
22068         }}\par}%
22069     \else
22070         \if@capbreak
22071             \strut
22072             #1{%
22073                 {\usekomafont{caption}{%
22074                     \usekomafont{captionlabel}{#2\captionformat}%
22075                 }%
22076             }\par}%
22077             \noindent\@hangfrom{\hspace*{\cap@indent}}%
22078             {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22079         \else
22080             \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
22081             {%
22082                 \hspace{-\cap@indent}%
22083                 \scr@smashdp{%
22084                     #1{\usekomafont{caption}{%
22085                         \usekomafont{captionlabel}{#2\captionformat}%

```



```

22086         }%
22087     }%
22088 }%
22089 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22090 }%
22091 \fi
22092 \fi
22093 \fi
22094 }%
22095 \cap@right
22096 }\par\kern\dp\strutbox
22097 }%
22098 }\kern-\dp\strutbox
22099 }
22100
22101
22102 \bidi@AfterFile{longtable-xetex-bidi.def}{%
22103 \if@komalongtable
22104 \renewcommand{LT@makecaption}[3]{%
22105 \LT@mc@col\LT@cols c{%
22106 \hbox to\z@{\hss\parbox[t]{\linewidth{%
22107 \if@captionabove\else\vskip\belowcaptionskip\fi
22108 \@makecaption{#1}{#2}{#3}%
22109 \endgraf
22110 \if@captionabove\vskip\abovecaptionskip\fi
22111 }%
22112 \hss
22113 }%
22114 }%
22115 }%
22116 \renewcommand*{\scr@LT@array}{}%
22117 \let\scr@LT@array=\LT@array
22118 \renewcommand*{\LT@array}{%
22119 \def\@c@p@t@y@e{table}%
22120 \@ifundefined{LTc@p@t@y@e}{}{%
22121 \Ifstr{\LTc@p@t@y@e}{-}{\let\@c@p@t@y@e\LTc@p@t@y@e}%
22122 }%
22123 \csname tocbasic_if_caption_above:TF\endcsname
22124 {\@captionabovetrue}{\@captionabovetrue}%
22125 \def\captionabove{\noalign{\global\@captionabovetrue}%
22126 \LT@caption}%
22127 \def\captionbelow{\noalign{\global\@captionabovetrue}%
22128 \LT@caption}%
22129 \scr@LT@array
22130 }%
22131 \ClassInfo{\KOMAClassName}{%
22132 longtable captions redefined%
22133 }%
22134 \fi
22135 }
22136
22137 \CloneTOCEntryStyle{tocline}{part}
22138 \TOCEntryStyleStartInitCode{part}{%
22139 \expandafter\renewcommand%

```



```

22140 \csname scr@tso@#1@linefill\endcsname{\hfill}%
22141 \expandafter\renewcommand%
22142 \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22143 \expandafter\renewcommand%
22144 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22145   {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
22146 \expandafter\renewcommand\expandafter*%
22147 \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
22148 }
22149
22150 \CloneTOCEntryStyle{tocline}{chapter}
22151 \TOCEntryStyleStartInitCode{chapter}{%
22152   \expandafter\renewcommand%
22153   \csname scr@tso@#1@linefill\endcsname{%
22154     \if@chapterentrywithdots
22155       {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
22156     \else
22157       \hfill
22158     \fi
22159   }%
22160   \expandafter\renewcommand%
22161   \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
22162   \expandafter\renewcommand%
22163   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22164     {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
22165   \expandafter\renewcommand\expandafter*%
22166   \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
22167 }
22168
22169 \CloneTOCEntryStyle{tocline}{section}
22170 \TOCEntryStyleStartInitCode{section}{%
22171   \expandafter\renewcommand%
22172   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22173   \expandafter\renewcommand%
22174   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22175     {\normalfont\normalcolor ##1}}%
22176 }
22177
22178 \CloneTOCEntryStyle{section}{default}
22179
22180 \DeclareSectionCommand[%
22181   style=chapter,%
22182   level=\z@,%
22183   pagestyle=plain,%
22184   tocstyle=chapter,%
22185   tocindent=\z@,%
22186   tocnumwidth=1.5em%
22187 ]{chapter}
22188 \DeclareSectionCommand[%
22189   style=section,%
22190   level=1,%
22191   indent=\z@,%
22192   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
22193   afterskip=2.3ex \@plus.2ex,%

```




```

22194   tocstyle=section,%
22195   tocindentfollows=chapter,%
22196   tocindent=1.5em,%
22197   tocnumwidth=2.3em%
22198 ]{section}
22199 \DeclareSectionCommand[%
22200   style=part,%
22201   level=\m@ne,%
22202   pagestyle=plain,%
22203   tocstyle=part,%
22204   toplevel=\m@ne,%
22205   tocindent=\z@,%
22206   tocnumwidth=2em%
22207 ]{part}
22208 \DeclareSectionCommand[%
22209   style=section,%
22210   level=2,%
22211   indent=\z@,%
22212   beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
22213   afterskip=1.5ex \@plus .2ex,%
22214   tocstyle=section,%
22215   tocindent=3.8em,%
22216   tocnumwidth=3.2em%
22217 ]{subsection}
22218 \DeclareSectionCommand[%
22219   style=section,%
22220   level=3,%
22221   indent=\z@,%
22222   beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
22223   afterskip=1.5ex \@plus .2ex,%
22224   tocstyle=section,%
22225   tocindent=7.0em,%
22226   tocnumwidth=4.1em%
22227 ]{subsubsection}
22228 \DeclareSectionCommand[%
22229   style=section,%
22230   level=4,%
22231   indent=\z@,%
22232   beforekip=3.25ex \@plus 1ex \@minus .2ex,%
22233   afterskip=-1em,%
22234   tocindentfollows=subsubsection,%
22235   tocstyle=section,%
22236   tocindent=10em,%
22237   tocnumwidth=5em%
22238 ]{paragraph}
22239 \DeclareSectionCommand[%
22240   style=section,%
22241   level=5,%
22242   indent=\scr@parindent,%
22243   beforekip=3.25ex \@plus 1ex \@minus .2ex,%
22244   afterskip=-1em,%
22245   tocstyle=section,%
22246   tocindent=12em,%
22247   tocnumwidth=6em%

```



22248]{subparagraph}

145 File sidecap-xetex-bidi.def

```

22249 \ProvidesFile{sidecap-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for sidecap package f
22250 \RequirePackage{ragged2e}
22251 \renewcommand*{\SC@FLOAT}[2]{\if@RTL%
22252   \isSC@ODD{{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}\else%
22253   \isSC@ODD{{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}\fi
22254   \renewcommand*{\SC@justify@caption}{\if@RTL%
22255     \isSC@ODD{\RaggedLeft}{\RaggedRight}\else%
22256     \isSC@ODD{\RaggedRight}{\RaggedLeft}\fi}
22257
22258 \@ifpackagewith{sidecap}{innercaption}{%
22259   \if@RTL \renewcommand*{\SC@FLOAT}[2]{%
22260     \isSC@ODD{{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}
22261     \renewcommand*{\SC@justify@caption}{%
22262       \isSC@ODD{\RaggedRight}{\RaggedLeft}}\else
22263     \renewcommand*{\SC@FLOAT}[2]{%
22264       \isSC@ODD{{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}
22265     \renewcommand*{\SC@justify@caption}{%
22266       \isSC@ODD{\RaggedLeft}{\RaggedRight}}\fi
22267 }{}
22268
22269 \@ifpackagewith{sidecap}{rightcaption}{%
22270   \if@RTL \renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
22271   \def\SC@justify@caption{\RaggedLeft}\else%
22272   \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
22273   \def\SC@justify@caption{\RaggedRight}\fi%
22274 }{}
22275
22276 \@ifpackagewith{sidecap}{leftcaption}{%
22277   \if@RTL \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
22278   \def\SC@justify@caption{\RaggedRight}\else%
22279   \renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
22280   \def\SC@justify@caption{\RaggedLeft}\fi%
22281 }{}

```

146 File soul-xetex-bidi.def

```

22282 \ProvidesFile{soul-xetex-bidi.def}[2015/10/16 v0.1 bidi adaptations for soul package for XeT
22283 \long\def\SOUL@start#1{%
22284   \let\bidir@RTL@everypar\@empty
22285   \let\<\SOUL@lowerthan
22286   \let\>\empty
22287   \def\soulomit{\noexpand\soulomit}%
22288   \gdef\SOUL@eventuallyexhyphen##1{%
22289     \let\SOUL@soeventuallyskip\relax
22290     \SOUL@spaceskip=\fontdimen\tw@\font\@plus\fontdimen\thr@@\font
22291     \@minus\fontdimen4\font
22292     \SOUL@ignorespacesfalse
22293     \leavevmode
22294     \SOUL@preamble
22295     \SOUL@lasttoken={}%

```



```

22296 \SOUL@word={}%
22297 \SOUL@minus\z@
22298 \SOUL@comma\z@
22299 \SOUL@apo\z@
22300 \SOUL@grave\z@
22301 \SOUL@do{#1}%
22302 \SOUL@postamble
22303 }}
22304 \def\SOUL@ulunderline#1{%
22305 \setbox\z@\hbox{#1}%
22306 \dimen@=\wd\z@
22307 \dimen@i=\SOUL@uloverlap
22308 \advance\dimen@2\dimen@i
22309 \if@RTL
22310 \unhcopy\z@
22311 \llap{%
22312 \null
22313 \kern-\dimen@i
22314 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
22315 }%
22316 \else
22317 \rlap{%
22318 \null
22319 \kern-\dimen@i
22320 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
22321 }%
22322 \unhcopy\z@
22323 \fi
22324 }}
22325 \def\bidi@SOUL@ulleaders{%
22326 \leaders\hb@xt@0.1pt{\hss\SOUL@ulcolor{\vrule\@depth\SOUL@uldp\@height\SOUL@ulht}\hss}\n
22327 }
22328 \def\SOUL@uleveryspace#1{%
22329 \if@RTL
22330 #1%
22331 \bidi@SOUL@ulleaders
22332 \hskip\spaceskip
22333 \else
22334 \SOUL@ulcolor{%
22335 #1%
22336 \SOUL@ulleaders
22337 \hskip\spaceskip
22338 }%
22339 \fi
22340 \null
22341 }

```

147 File stabular-xetex-bidi.def

```

22342 \ProvidesFile{stabular-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for stabular package]
22343 \def\@stabular{%
22344 \leavevmode \bgroup \if@RTLtab\beginR \fi
22345 \let\@acol\@tabacol
22346 \let\@classz\@tabclassz

```



```

22347 \let\@classiv\@tabclassiv \let\\\@tabularc\@stabarray}
22348 \def\endstabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
22349 \egroup \if@RTLtab\endR\fi\egroup}
22350 \expandafter \let \csname endstabular*\endcsname = \endstabular
22351 \def\@sarray[#1]#2{%
22352 \bgroup
22353 \setbox\@arstrutbox\hbox{%
22354 \vrule \@height\arraystretch\ht\strutbox
22355 \@depth\arraystretch \dp\strutbox
22356 \@width\z@}%
22357 \@mkpream{#2}%
22358 \edef\@preamble{%
22359 \ialign \noexpand\@halignto
22360 \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
22361 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
22362 \let\@tabularnewline\\
22363 \let\@sharp##%
22364 \set@typeset@protect
22365 \lineskip\z@skip\baselineskip\z@skip
22366 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\top \else \vbox \fi\bgroup\fi
22367 \@preamble}

```

148 File subfigure-xetex-bidi.def

```

22368 \ProvidesFile{subfigure-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for subfigure packa
22369 \AtBeginDocument{%
22370 \let\p@subfigure=\thefigure
22371 \let\p@subtable=\thetable%
22372 }

```

149 File tabs-xetex-bidi.def

```

22373 \ProvidesFile{tabs-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for tabs package for X
22374 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
22375
22376 \expandafter\let\csname endtabular*\endcsname=\endtabular
22377
22378 \def\endarray{\ifvmode\csname crr\endcsname % just do \crr if \ given
22379 \else \[\z@ \global\advance\@arstdepth-\@otarlinesep]%
22380 \fi\egroup\if@RTLtab\egroup\endR\egroup\fi\@unrecurse\egroup}
22381
22382 \def\@array[#1]#2{% remember global variables to allow recursion:
22383 \edef\@unrecurse{\global\@skip@bove\the\@skip@bove
22384 \global\@arstheight\the\@arstheight\global\@arstdepth\the\@arstdepth}%
22385 \let\@otarlinesep\@tarlinesep \global\@skip@bove-\@otarlinesep
22386 \ifx\@classz\@arrayclassz \let\@tarlinesep\arraylinesep
22387 \else \let\@tarlinesep\tablinesep \fi
22388 \divide\@tarlinesep\tw@ % half sep is applied to height & depth
22389 \let\@seesize\relax \let\@rememsize\relax \@mkpream{#2}%
22390 \@tempdima\arraystretch\ht\strutbox \@tempdimb\arraystretch\dp\strutbox
22391 \ifdim\@tarlinesep>\z@ % (need \protect for \multicolumn)
22392 \def\@rememsize{\protect\@r@m@size}\let\@seesize\@s@size
22393 \advance\@tempdima-\@tarlinesep \advance\@tempdimb-\@tarlinesep
22394 \fi \setbox\@arstrutbox\hbox{% set up smaller strut

```



```

22395 \vrule \@height\@tempdima \@depth\@tempdimb \@width\z@}%
22396 \let\protect\noexpand
22397 \edef\@preamble{\iialign \noexpand\@halign\to \bgroup
22398 \unhcopy\@arstrutbox \@preamble \tabskip\z@skip &\@sharp \cr}%
22399 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
22400 \if#1t\top \else \if#1b\bottom \else \vcenter \fi\fi
22401 \bgroup \let\par\@empty
22402 \global\@arstheight\ht\@arstrutbox \global\@arstdepth\dp\@arstrutbox
22403 \advance\extrarulesep.5\arrayrulewidth
22404 \let\@sharp#\let\protect\relax \lineskip\z@skip \baselineskip\z@skip
22405 \ifRTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if#1t\top \else \bottom \fi\bgroup\fi
22406 \@preamble}

```

150 File tabularx-xetex-bidi.def

```

22407 \ProvidesFile{tabularx-xetex-bidi.def}[2014/11/08 v0.1 bidi adaptations for tabularx package]
22408 \def\TX@endtabularx{%
22409 \expandafter\expandafter\expandafter
22410 \TX@find@endtabularxa\csname end\TX@\endcsname
22411 \endtabularx\TX@\endtabularx\TX@find@endtabularxa
22412 \expandafter\TX@newcol\expandafter{\tabularxcolumn{\TX@col@width}}%
22413 \let\verb\TX@verb
22414 \def\@elt##1{\global\value{##1}\the\value{##1}\relax}%
22415 \edef\TX@ckpt{\cl@ckpt}%
22416 \let\@elt\relax
22417 \TX@old@table\maxdimen
22418 \TX@col@width\TX@target
22419 \global\TX@cols\@ne
22420 \TX@typeout@
22421 {\@spaces Table Width\@spaces Column Width\@spaces X Columns}%
22422 \TX@trial{\def\NC@rewriteX{%
22423 \global\advance\TX@cols\@ne\NC@find p{\TX@col@width}}}%
22424 \loop
22425 \TX@arith
22426 \ifTX@
22427 \TX@trial{%
22428 \repeat
22429 {\let\@footnotetext\TX@ftntext\let\@xfootnotenext\TX@xftntext
22430 \let\@LTRfootnotetext\TX@LTRftntext\let\@xLTRfootnotenext\TX@xLTRftntext
22431 \let\@RTLfootnotetext\TX@RTLftntext\let\@xRTLfootnotenext\TX@xRTLftntext
22432 \csname tabular*\expandafter\endcsname\expandafter\TX@target
22433 \the\toks@
22434 \csname endtabular*\endcsname}%
22435 \global\TX@ftn\expandafter{\expandafter}\the\TX@ftn
22436 \ifnum0=\@fi}%
22437 \expandafter\expandafter\expandafter
22438 \TX@find@endtabularxbb
22439 \expandafter\end\expandafter{\TX@}%
22440 \endtabularx\TX@\endtabularx\TX@find@endtabularxb
22441 }
22442
22443 \def\TX@trial#1{%
22444 \setbox\@tempboxa\hbox{%
22445 #1\relax

```



```

22446 \let\@footnotetext\TX@trial@ftn
22447 \let\@LTRfootnotetext\TX@trial@ftn
22448 \let\@RTLfootnotetext\TX@trial@ftn
22449 \let\TX@vwarn\@empty
22450 \expandafter\let\expandafter\tabularx\csname tabular*\endcsname
22451 \expandafter\let\expandafter\endtabularx\csname endtabular*\endcsname
22452 \def\write{\begingroup
22453   \def\let{\afterassignment\endgroup\toks@}%
22454   \afterassignment\let\count@}%
22455   \hbadness\@M
22456   \hfuzz\maxdimen
22457   \let\hbadness\@tempcnta
22458   \let\hfuzz\@tempdima
22459   \expandafter\tabular\the\toks@
22460   \endtabular}%
22461 \TX@ckpt
22462 \TX@typeout@{\@spaces
22463   \expandafter\TX@align
22464   \the\wd\@tempboxa\space\space\space\space\space\@@
22465   \expandafter\TX@align
22466   \the\TX@col@width\space\space\space\space\space\@@
22467   \@spaces\the\TX@cols}}
22468
22469 \long\def\TX@LTRftntext#1{%
22470   \edef\@tempa{\the\TX@ftn\noexpand\LTRfootnotetext
22471     [\the\csname c@\@mpfn\endcsname]}}%
22472   \global\TX@ftn\expandafter{\@tempa{#1}}}%
22473 \long\def\TX@xLTRftntext[#1]#2{%
22474   \global\TX@ftn\expandafter{\the\TX@ftn\LTRfootnotetext[#1]{#2}}}
22475
22476 \long\def\TX@RTLftntext#1{%
22477   \edef\@tempa{\the\TX@ftn\noexpand\RTLfootnotetext
22478     [\the\csname c@\@mpfn\endcsname]}}%
22479   \global\TX@ftn\expandafter{\@tempa{#1}}}%
22480 \long\def\TX@xRTLftntext[#1]#2{%
22481   \global\TX@ftn\expandafter{\the\TX@ftn\RTLfootnotetext[#1]{#2}}}

```

151 File tabulary-xetex-bidi.def

```

22482 \ProvidesFile{tabulary-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tabulary package]
22483 \def\@testpach{\@chclass
22484   \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
22485   \ifnum \@lastchclass=7 5 \else
22486   \ifnum \@lastchclass=8 \tw@ \else
22487   \ifnum \@lastchclass=9 \thr@@
22488   \else \z@
22489   \ifnum \@lastchclass = 10 \else
22490   \edef\@nextchar{\expandafter\string\@nextchar}%
22491   \@chnum
22492   \if \@nextchar c\z@ \else
22493   \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
22494   \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
22495   \if \@nextchar C7 \else
22496   \if \@nextchar L8 \else

```



```

22497 \if \@nextchar R9 \else
22498 \if \@nextchar J10 \else
22499 \z@ \@chclass
22500 \if \@nextchar |\@ne \else
22501 \if \@nextchar !6 \else
22502 \if \@nextchar @7 \else
22503 \if \@nextchar <8 \else
22504 \if \@nextchar >9 \else
22505 10
22506 \@chnum
22507 \if \@nextchar m\thr@@\else
22508 \if \@nextchar p4 \else
22509 \if \@nextchar b5 \else
22510 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi \fi
22511 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi

```

152 File tc-xetex-xetex-bidi.def

```

22512 \ProvidesFile{tc-xetex-xetex-bidi.def}[2014/07/08 v0.1 bidi adaptations for Clipping driver]
22513 \def\@cliptoboxdim#1{%
22514 \setbox#1=\hbox{%
22515 \Gin@defaultbp\WIDTH{\wd#1}%
22516 \Gin@defaultbp\DEPTH{\dp#1}%
22517 \@tempdima\ht#1%
22518 \advance\@tempdima\dp#1%
22519 \Gin@defaultbp\TOTALHEIGHT{\@tempdima}%
22520 \beginL\special{pdf:bcontent }%
22521 \special{%
22522 pdf:literal direct
22523 0 -\DEPTH\space \WIDTH\space \TOTALHEIGHT\space re
22524 }%
22525 \special{pdf:literal direct W }%
22526 \special{pdf:literal direct n }%
22527 \if@RTL\beginR\fi\box#1\if@RTL\endR\fi%
22528 \special{pdf:econtent }\endL%
22529 }%
22530 }

```

153 File tcolorbox-xetex-bidi.def

```

22531 \ProvidesFile{tcolorbox-xetex-bidi.def}[2018/11/11 v0.2 bidi adaptations for tcolorbox package]
22532 \let\endtcbox@lrbox=\endminipage
22533 \let\endtcbox@savebox=\endtcbox@lrbox
22534
22535 \bidi@patchcmd{\tcb@vbox}{%
22536 \let\@footnotetext\@mpfootnotetext%
22537 }{%
22538 \let\@footnotetext\@mpfootnotetext%
22539 \let\@LTRfootnotetext\@mpLTRfootnotetext%
22540 \let\@RTLfootnotetext\@mpRTLfootnotetext%
22541 }{}{}
22542
22543 \bidi@patchcmd{\endtcbox@vbox}{%
22544 \footnoterule%

```



```

22545 }{%
22546     \bidi@mpfootnoterule%
22547 }{}{}
22548 \bidi@apptocmd\tcb@@icolorbox{%
22549     \@bidi@list@minipage@parboxfalse
22550 }{}{}

```

154 File thmbox-xetex-bidi.def

```

22551 \ProvidesFile{thmbox-xetex-bidi.def}[2025/09/04 v0.1 bidi adaptations for thmbox package for
22552 \renewenvironment{thmbox}[2] []{%
22553     \parskip\z@%
22554     \setkeys{thmbox}{#1}%
22555     \ifx\thmbox@style S\else\ifx\thmbox@style M\else\ifx\thmbox@style L\else%
22556         \PackageWarning{thmbox}{\thmbox@style\ is not a valid style for
22557             \string\thmbox, using M}%
22558         \let\thmbox@style=M%
22559     \fi\fi\fi%
22560     \thmbox@head{{#2}}\nobreak\relax%
22561     \thmbox@dim=\hsize%
22562     \advance\thmbox@dim-\leftskip%
22563     \advance\thmbox@dim-\rightskip%
22564     \setbox\thmbox@box=\vbox\bgroup%
22565     \if@RTL
22566         \@hboxRconstructtrue
22567     \fi
22568     \hsize=\thmbox@dim%
22569     \advance\hsize -\thmbox@leftmargin%
22570     \advance\hsize -\thmbox@rightmargin%
22571     \textwidth=\hsize%
22572     \linewidth=\hsize%
22573     \vskip\thmbox@vskip%
22574     \begingroup}{\endgroup%
22575     \vskip\thmbox@vskip%
22576     \egroup%
22577     \thmbox@start%
22578     \ifx\thmbox@style S\else\thmbox@tail\fi%
22579     \@endparenv}

```

155 File titlesec-xetex-bidi.def

```

22580 \ProvidesFile{titlesec-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for titlesec package
22581 \renewcommand\filright{%
22582     \gdef\ttl@filleft##1{\hskip##1}%
22583     \gdef\ttl@filright##1{\hfill}%
22584     \let\\@centercr
22585     \advance\rightskip\z@ \@plus 1fil
22586     \parfillskip\z@}
22587 \def\ttlh@hang#1#2#3#4#5#6#7#8{%
22588     \gdef\ttl@makeline##1{\ttl@calc\hspace{#6}##1\ttl@calc\hspace{#7}}%
22589     \setlength\leftskip{#6}%
22590     \setlength\rightskip{#7}%
22591     \interlinepenalty\@M
22592     \ttl@change@centercr

```




```

22593 \ttl@beginlongest
22594 #1{\ifhmode\ttl@hmode@error\fi
22595 \ttl@glcmds
22596 \parindent\z@
22597 \leavevmode
22598 \beginngroup
22599 \ifttl@label
22600 \sbox\z@{#2\strut\ttl@calc\hspace{#3}}%
22601 \ifRTL\advance\rightskip\wd\z@\else\advance\leftskip\wd\z@\fi
22602 \llap{\box\z@}%
22603 \fi
22604 #4{#8}%
22605 \kern\z@\strut\@par
22606 \endgroup
22607 \nobreak\ttl@midlongest#5\@par}%
22608 \ttl@endlongest}

```

156 File titletoc-xetex-bidi.def

```

22609 \ProvidesFile{titletoc-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for titletoc package]
22610 \renewcommand\filright{%
22611 \gdef\ttl@filleft##1{\hskip##1}%
22612 \gdef\ttl@filright##1{\hfill}%
22613 \let\\\@centercr
22614 \advance\rightskip\z@ \@plus 1fil
22615 \parfillskip\z@}
22616 \renewcommand\contentspush[1]{%
22617 \sbox\z@{#1}%
22618 \xdef\ttl@b{\advance\ifRTL\rightskip\else\leftskip\fi\the\wd\z@}%
22619 \aftergroup\ttl@b
22620 \leavevmode\llap{\box\z@}}
22621 \def\ttl@outnoblock#1#2#3{%
22622 \beginngroup
22623 \ifnum\ttl@b>\ttl@a
22624 \nobreak
22625 \else\ifnum\ttl@b<\ttl@a
22626 \addpenalty{\@secpenalty}%
22627 \else
22628 \addpenalty{\z@}%
22629 \fi\fi
22630 \ttl@contentsstretch
22631 \nobreak
22632 \ifcase#1\relax\else\interlinepenalty\@M\fi
22633 \parindent\z@
22634 \ifx\@nil#2%
22635 \PackageError{titletoc}{Unimplemented}%
22636 {The optional argument is currently mandatory}%
22637 \else
22638 \ifRTL\setlength\rightskip{#2}\else
22639 \setlength\leftskip{#2}\fi%
22640 \fi
22641 \ifRTL\setlength\leftskip{\@pnumwidth}\else\setlength\rightskip{\@pnumwidth}\fi%
22642 \let\contentsmargin\ttl@margin
22643 \def\ttl@makeline##1{##1}%

```



```

22644 #3%
22645 \addtolength{\parfillskip}{-\ttl@corr}%
22646 \if@RTL\addtolength{\leftskip}{\ttl@corr}\else\addtolength{\rightskip}{\ttl@corr}\fi%
22647 \let\ttl@leaders\leaders}
22648 \renewcommand\ttl@margin[2][\z@]{%
22649 \def\ttl@corr{#1}%
22650 \advance\if@RTL\leftskip\else\rightskip\fi-\@pnumwidth\relax
22651 \advance\if@RTL\leftskip\else\rightskip\fi#2\relax
22652 \def\@pnumwidth{#2}}
22653 \let\ttl@savel@part\l@part
22654 \def\l@part{\ttl@lselect{part}}
22655
22656 \let\ttl@savel@chapter\l@chapter
22657 \def\l@chapter{\ttl@lselect{chapter}}

```

157 File tocbibind-xetex-bidi.def

```

22658 \ProvidesFile{tocbibind-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for tocbibind packa
22659 \IfClassLoadedT{memoir}{\endinput}
22660 \if@dotocbib
22661 \ApplyPatchIfPackageLoadedF{natbib}{% natbib not loaded
22662 \renewcommand{\bibsection}{\tcb@bchapsec}
22663 \renewenvironment{thebibliography}[1]{%
22664 \bibsection
22665 \begin{thebibitemlist}{#1}}{\end{thebibitemlist}}}
22666 \renewenvironment{thebibitemlist}[1]{
22667 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
22668 \bidi@thebibliography@font@hook%
22669 \list{\@biblabel{\@arabic{c@enumiv}}}%
22670 {\settowidth\labelwidth{\@biblabel{#1}}%
22671 \leftmargin\labelwidth
22672 \advance\leftmargin\labelsep
22673 \@openbib@code
22674 \usecounter{enumiv}%
22675 \let\p@enumiv\@empty
22676 \renewcommand\theenumiv{\@arabic{c@enumiv}}}%
22677 \sloppy
22678 \clubpenalty4000
22679 \@clubpenalty \clubpenalty
22680 \widowpenalty4000%
22681 \sfcode`\.\@m}
22682 {\def\@noitemerr
22683 {\@latex@warning{Empty `thebibliography' environment}}}%
22684 \endlist}
22685
22686 \ApplyPatchCodeToPackage{chapterbib}{%
22687 \@ifpackagewith{chapterbib}{sectionbib}%
22688 {\renewcommand{\sectionbib}[2]{}}%
22689 {}%
22690 }
22691
22692 \fi
22693 \if@inltxdoc\else
22694 \renewenvironment{theindex}%

```



```

22695 { \if@twocolumn
22696   \@restonecolfalse
22697   \else
22698     \@restonecoltrue
22699   \fi
22700   \if@bibchapter
22701     \if@donumindex
22702       \refstepcounter{chapter}
22703       \twocolumn[\vspace*{2\topskip}%
22704         \@makechapterhead{\indexname}]]%
22705       \addcontentsline{toc}{chapter}{\protect\numberline{\thechapter}\indexname}
22706       \chaptermark{\indexname}
22707     \else
22708       \if@dotocind
22709         \twocolumn[\vspace*{2\topskip}%
22710           \@makeschapterhead{\indexname}]]%
22711         \prw@mkboth{\indexname}
22712         \addcontentsline{toc}{chapter}{\indexname}
22713       \else
22714         \twocolumn[\vspace*{2\topskip}%
22715           \@makeschapterhead{\indexname}]]%
22716         \prw@mkboth{\indexname}
22717       \fi
22718     \fi
22719   \else
22720     \if@donumindex
22721       \twocolumn[\vspace*{-1.5\topskip}%
22722         \@nameuse{\@tocextra}{\indexname}]]%
22723       \csname \@tocextra mark\endcsname{\indexname}
22724     \else
22725       \if@dotocind
22726         \twocolumn[\vspace*{-1.5\topskip}%
22727           \toc@headstar{\@tocextra}{\indexname}]]%
22728         \prw@mkboth{\indexname}
22729         \addcontentsline{toc}{\@tocextra}{\indexname}
22730       \else
22731         \twocolumn[\vspace*{-1.5\topskip}%
22732           \toc@headstar{\@tocextra}{\indexname}]]%
22733         \prw@mkboth{\indexname}
22734       \fi
22735     \fi
22736   \fi
22737   \thispagestyle{plain}\parindent\z@
22738   \parskip\z@ \@plus .3\p@\relax
22739   \let\item\@idxitem}
22740 { \if@restonecol\onecolumn\else\clearpage\fi}
22741 \fi

```

158 File tocloft-xetex-bidi.def

```

22742 \ProvidesFile{tocloft-xetex-bidi.def}[2025/01/03 v0.4 bidi adaptations for tocloft package f
22743 \IfClassLoadedT{memoir}{\endinput}
22744 \renewcommand{\cftpnualign}{\if@RTL l\else r\fi}
22745 \let\cftdot\@SepMark

```



```

22746 \if@cfthaspart
22747 \renewcommand*{\l@part}[2]{
22748   \@cftdopartfalse
22749   \ifnum \c@tocdepth >-2\relax
22750     \if@cfthaschapter
22751       \@cftdoparttrue
22752     \fi
22753     \ifnum \c@tocdepth >\m@ne
22754       \if@cfthaschapter\else
22755         \@cftdoparttrue
22756       \fi
22757     \fi
22758   \fi
22759   \if@cftdopart
22760     \if@cfthaschapter
22761       \addpenalty{-\@highpenalty}
22762     \else
22763       \addpenalty\@secpenalty
22764     \fi
22765     \addvspace{\cftbeforepartskip}
22766     \begingroup
22767       {\if@RTL\rightskip\else\leftskip\fi \cftpartindent\relax
22768        \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22769        \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22770        \parindent \cftpartindent\relax\@afterindenttrue
22771        \interlinepenalty\@M
22772        \leavevmode
22773        \@tempdima \cftpartnumwidth\relax
22774        \let\@cftbsnum \cftpartpresnum
22775        \let\@cftasnum \cftpartaftersnum
22776        \let\@cftasnumb \cftpartaftersnumb
22777        \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
22778        {\cftpartfont \cftpartpresnum #1}
22779        \cftpartfillnum{#2}}
22780     \nobreak
22781     \if@cfthaschapter
22782       \global\@nobreaktrue
22783       \everypar{\global\@nobreakfalse\everypar{}}
22784     \else
22785       \if@compatibility
22786         \global\@nobreaktrue
22787         \everypar{\global\@nobreakfalse\everypar{}}
22788       \fi
22789     \fi
22790   \endgroup
22791 \fi}
22792 \fi
22793 \if@cfthaschapter
22794 \renewcommand*{\l@chapter}[2]{
22795   \ifnum \c@tocdepth >\m@ne
22796     \addpenalty{-\@highpenalty}
22797     \vskip \cftbeforechapskip
22798     {\if@RTL\rightskip\else\leftskip\fi \cftchapindent\relax
22799     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg

```



```

22800 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22801 \parindent \cftchapindent\relax\@afterindenttrue
22802 \interlinepenalty\@M
22803 \leavevmode
22804 \@tempdima \cftchapnumwidth\relax
22805 \let\@cftbsnum \cftchappresnum
22806 \let\@cftasnum \cftchapaftersnum
22807 \let\@cftasnumb \cftchapaftersnumb
22808 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22809 {\cftchapfont #1}\nobreak
22810 \cftchapfillnum{#2}}
22811 \fi}
22812 \fi
22813 \renewcommand*{\l@section}[2]{%
22814 \ifnum \c@tocdepth >\z@
22815 \if@cfthaschapter
22816 \vskip \cftbeforesecskip
22817 \else
22818 \addpenalty\@secpenalty
22819 \addvspace{\cftbeforesecskip}
22820 \fi
22821 {\if@RTL\rightskip\else\leftskip\fi \cftsecindent\relax
22822 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22823 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22824 \parindent \cftsecindent\relax\@afterindenttrue
22825 \interlinepenalty\@M
22826 \leavevmode
22827 \@tempdima \cftsecnumwidth\relax
22828 \let\@cftbsnum \cftsecpresnum
22829 \let\@cftasnum \cftsecaftersnum
22830 \let\@cftasnumb \cftsecaftersnumb
22831 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22832 {\cftsecfont #1}\nobreak
22833 \cftsecfillnum{#2}}
22834 \fi}
22835 \renewcommand*{\l@subsection}[2]{%
22836 \ifnum \c@tocdepth >\@ne
22837 \vskip \cftbeforesubsecskip
22838 {\if@RTL\rightskip\else\leftskip\fi \cftsubsecindent\relax
22839 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22840 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22841 \parindent \cftsubsecindent\relax\@afterindenttrue
22842 \interlinepenalty\@M
22843 \leavevmode
22844 \@tempdima \cftsubsecnumwidth\relax
22845 \let\@cftbsnum \cftsubsecpresnum
22846 \let\@cftasnum \cftsubsecaftersnum
22847 \let\@cftasnumb \cftsubsecaftersnumb
22848 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22849 {\cftsubsecfont #1}\nobreak
22850 \cftsubsecfillnum{#2}}
22851 \fi}
22852 \renewcommand*{\l@subsubsection}[2]{%
22853 \ifnum \c@tocdepth >\tw@

```



```

22854 \vskip \cftbeforesubsubsecskip
22855 {\if@RTL\righskip\else\leftskip\fi \cftsubsubsecindent\relax
22856 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22857 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22858 \parindent \cftsubsubsecindent\relax\@afterindenttrue
22859 \interlinepenalty\@M
22860 \leavevmode
22861 \@tempdima \cftsubsubsecnumwidth\relax
22862 \let\@cftbsnum \cftsubsubsecpresnum
22863 \let\@cftasnum \cftsubsubsecaftersnum
22864 \let\@cftasnumb \cftsubsubsecaftersnumb
22865 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22866 {\cftsubsubsecfont #1}\nobreak
22867 \cftsubsubsecfillnum{#2}}
22868 \fi}
22869 \renewcommand*\l@paragraph}[2]{%
22870 \ifnum \c@tocdepth >3\relax
22871 \vskip \cftbeforeparaskip
22872 {\if@RTL\righskip\else\leftskip\fi \cftparaindent\relax
22873 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22874 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22875 \parindent \cftparaindent\relax\@afterindenttrue
22876 \interlinepenalty\@M
22877 \leavevmode
22878 \@tempdima \cftparanumwidth\relax
22879 \let\@cftbsnum \cftparapresnum
22880 \let\@cftasnum \cftparaaftersnum
22881 \let\@cftasnumb \cftparaaftersnumb
22882 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22883 {\cftparafont #1}\nobreak
22884 \cftparafillnum{#2}}
22885 \fi}
22886 \renewcommand*\l@subparagraph}[2]{%
22887 \ifnum \c@tocdepth >4\relax
22888 \vskip \cftbeforesubparaskip
22889 {\if@RTL\righskip\else\leftskip\fi \cftsubparaindent\relax
22890 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22891 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22892 \parindent \cftsubparaindent\relax\@afterindenttrue
22893 \interlinepenalty\@M
22894 \leavevmode
22895 \@tempdima \cftsubparanumwidth\relax
22896 \let\@cftbsnum \cftsubparapresnum
22897 \let\@cftasnum \cftsubparaaftersnum
22898 \let\@cftasnumb \cftsubparaaftersnumb
22899 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22900 {\cftsubparafont #1}\nobreak
22901 \cftsubparafillnum{#2}}
22902 \fi}
22903 \renewcommand*\l@figure}[2]{%
22904 \ifnum \c@lofdepth >\z@
22905 \vskip \cftbeforefigskip
22906 {\if@RTL\righskip\else\leftskip\fi \cftfigindent\relax
22907 \if@RTL\leftskip\else\righskip\fi \@tocrmarg

```



```

22908 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22909 \parindent \cftfigindent\relax\@afterindenttrue
22910 \interlinepenalty\@M
22911 \leavevmode
22912 \@tempdima \cftfignumwidth\relax
22913 \let\@cftbsnum \cftfigpresnum
22914 \let\@cftasnum \cftfigaftersnum
22915 \let\@cftasnumb \cftfigaftersnumb
22916 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22917 {\cftfigfont #1}\nobreak
22918 \cftfigfillnum{#2}}
22919 \fi
22920 }
22921 \renewcommand*{\l@table}[2]{%
22922 \ifnum\c@lotdepth >\z@
22923 \vskip \cftbeforetabskip
22924 {\if@RTL\rightskip\else\leftskip\fi \cfttabindent\relax
22925 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22926 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22927 \parindent \cfttabindent\relax\@afterindenttrue
22928 \interlinepenalty\@M
22929 \leavevmode
22930 \@tempdima \cfttabnumwidth\relax
22931 \let\@cftbsnum \cfttabpresnum
22932 \let\@cftasnum \cfttabaftersnum
22933 \let\@cftasnumb \cfttabaftersnumb
22934 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22935 {\cfttabfont #1}\nobreak
22936 \cfttabfillnum{#2}}
22937 \fi
22938 }
22939 \renewcommand{\@cftl@subfig}{
22940 \renewcommand*{\l@subfigure}[2]{%
22941 \ifnum \c@lofdepth > \toclevel@subfigure
22942 \vskip \cftbeforesubfigskip
22943 {\if@RTL\rightskip\else\leftskip\fi \cftsubfigindent\relax
22944 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22945 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22946 \parindent \cftsubfigindent\relax\@afterindenttrue
22947 \interlinepenalty\@M
22948 \leavevmode
22949 \@tempdima \cftsubfignumwidth\relax
22950 \let\@cftbsnum \cftsubfigpresnum
22951 \let\@cftasnum \cftsubfigaftersnum
22952 \let\@cftasnumb \cftsubfigaftersnumb
22953 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22954 {\cftsubfigfont ##1}\nobreak
22955 \cftsubfigfillnum{##2}}
22956 \fi
22957 }
22958 }
22959 \renewcommand{\@cftl@subtab}{
22960 \renewcommand*{\l@subtable}[2]{%
22961 \ifnum \c@lotdepth > \toclevel@subtable

```



```

22962 \vskip \cftbeforesubtabskip
22963 {\if@RTL\rightskip\else\leftskip\fi \cftsubtabindent\relax
22964 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22965 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22966 \parindent \cftsubtabindent\relax\@afterindenttrue
22967 \interlinepenalty\@M
22968 \leavevmode
22969 \@tempdima \cftsubtabnumwidth\relax
22970 \let\@cftbsnum \cftsubtabpresnum
22971 \let\@cftasnum \cftsubtabaftersnum
22972 \let\@cftasnumb \cftsubtabaftersnumb
22973 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22974 {\cftsubtabfont ##1}\nobreak
22975 \cftsubtabfillnum{##2}}
22976 \fi
22977 }
22978 }
22979 \renewcommand{\newlistentry}[4][\@empty]{%
22980 \ifundefined{c@#2}{% check & set the counter
22981 \ifx \@empty#1\relax
22982 \newcounter{#2}
22983 \else
22984 \ifundefined{c@#1}{\PackageWarning{tocloft}%
22985 {#1 has no counter for use as a `within'}
22986 \newcounter{#2}}%
22987 {\newcounter{#2}[#1]%
22988 \expandafter\edef\csname the#2\endcsname{%
22989 \expandafter\noexpand\csname the#1\endcsname\@SepMark\noexpand\arabic{#2}}}
22990 \fi
22991 \setcounter{#2}{0}
22992 }
22993 {\PackageError{tocloft}{#2 has been previously defined}{\@eha}}
22994
22995 \@namedef{l@#2}##1##2{%
22996 \ifnum \@nameuse{c@#3depth} > #4\relax
22997 \vskip \@nameuse{cftbefore#2skip}
22998 {\if@RTL\rightskip\else\leftskip\fi \@nameuse{cft#2indent}\relax
22999 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
23000 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
23001 \parindent \@nameuse{cft#2indent}\relax\@afterindenttrue
23002 \interlinepenalty\@M
23003 \leavevmode
23004 \@tempdima \@nameuse{cft#2numwidth}\relax
23005 \expandafter\let\expandafter\@cftbsnum\csname cft#2presnum\endcsname
23006 \expandafter\let\expandafter\@cftasnum\csname cft#2aftersnum\endcsname
23007 \expandafter\let\expandafter\@cftasnumb\csname cft#2aftersnumb\endcsname
23008 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
23009 {\@nameuse{cft#2font}##1}\nobreak
23010 \@nameuse{cft#2fillnum}{##2}}
23011 \fi
23012 } % end of l@#2
23013
23014 \expandafter\newlength\csname cftbefore#2skip\endcsname
23015 \setlength{\@nameuse{cftbefore#2skip}}{\z@ \@plus .2p@}

```




```

23016 \expandafter\newlength\csname cft#2indent\endcsname
23017 \expandafter\newlength\csname cft#2numwidth\endcsname
23018 \ifcase #4\relax % 0
23019 \setlength{\@nameuse{cft#2indent}}{0em}
23020 \setlength{\@nameuse{cft#2numwidth}}{1.5em}
23021 \or % 1
23022 \setlength{\@nameuse{cft#2indent}}{1.5em}
23023 \setlength{\@nameuse{cft#2numwidth}}{2.3em}
23024 \or % 2
23025 \setlength{\@nameuse{cft#2indent}}{3.8em}
23026 \setlength{\@nameuse{cft#2numwidth}}{3.2em}
23027 \or % 3
23028 \setlength{\@nameuse{cft#2indent}}{7.0em}
23029 \setlength{\@nameuse{cft#2numwidth}}{4.1em}
23030 \else % anything else
23031 \setlength{\@nameuse{cft#2indent}}{10.0em}
23032 \setlength{\@nameuse{cft#2numwidth}}{5.0em}
23033 \fi
23034 \@namedef{cft#2font}{\normalfont}
23035 \@namedef{cft#2presnum}{\}
23036 \@namedef{cft#2aftersnum}{\}
23037 \@namedef{cft#2aftersnumb}{\}
23038 \@namedef{cft#2dotsep}{\cftdotsep}
23039 \@namedef{cft#2leader}{\normalfont\cftdotfill{\@nameuse{cft#2dotsep}}}
23040 \@namedef{cft#2pagefont}{\normalfont}
23041 \@namedef{cft#2afterpnum}{\}
23042 \@namedef{toclevel@#2}{#4}
23043 \@namedef{cft#2fillnum}##1{%
23044 \{\@nameuse{cft#2leader}\}\nobreak
23045 \hb@xt@{\@pnumwidth}{\hfil\@nameuse{cft#2pagefont}##1\@nameuse{cft#2afterpnum}\par}
23046 } % end \newlistentry
23047 \renewcommand{\cftchapterprecistoc}[1]{\addtocontents{toc}{%
23048 \if@RTL\rightskip\else\leftskip\fi \cftchapindent\relax
23049 \advance\if@RTL\rightskip\else\leftskip\fi \cftchapnumwidth\relax
23050 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg\relax
23051 \textit{#1}\protect\par}}}

```

159 File tocbasic-xetex-bidi.def

```

23052 \ProvidesFile{tocbasic-xetex-bidi.def}[2022/06/15 v0.5 bidi adaptations for tocbasic package]
23053 \bidi@undef\scr@dte@def@l@undottedtocline
23054 \bidi@undef\scr@dte@undottedtocline@init
23055 \DeclareTOCEntryStyle{undottedtocline}[{%
23056 \DefineTOCEntryLengthOption{indent}%
23057 {\scr@tso@}{\@indent}{entry indent}%
23058 \DefineTOCEntryLengthOption{numwidth}%
23059 {\scr@tso@}{\@numwidth}{entry number width}%
23060 \@ifundefined{#1tocdepth}{%
23061 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
23062 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
23063 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
23064 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
23065 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
23066 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%

```



```

23067         \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
23068         \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
23069         \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
23070         \expandafter\let\csname #1tocdepth\expandafter\endcsname
23071         \csname #1numdepth\endcsname
23072         }%
23073     }%
23074 }%
23075 }%
23076 }%
23077 }%
23078 }%
23079 }%
23080 }%
23081 }-%
23082 \@ifundefined{scr@tso@#1@indent}{%
23083     \ifundefined{scr@#1@tocindent}{%
23084         \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23085         \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23086         \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
23087         \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
23088         \scr@ifundefinedorrelax{l@chapter}{%
23089         \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
23090         \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23091         \Ifstr{#1}{subsubsection}{%
23092         \@namedef{scr@tso@#1@indent}{3.8em}%
23093         }-%
23094         \Ifstr{#1}{paragraph}{%
23095         \@namedef{scr@tso@#1@indent}{7em}%
23096         }-%
23097         \Ifstr{#1}{subparagraph}{%
23098         \@namedef{scr@tso@#1@indent}{10em}%
23099         }-%
23100         }%
23101         }%
23102     }%
23103 }%
23104 }%
23105 }-%
23106 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23107 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
23108 \Ifstr{#1}{subsubsection}{%
23109 \@namedef{scr@tso@#1@indent}{7.0em}%
23110 }-%
23111 \Ifstr{#1}{paragraph}{%
23112 \@namedef{scr@tso@#1@indent}{10em}%
23113 }-%
23114 \Ifstr{#1}{subparagraph}{%
23115 \@namedef{scr@tso@#1@indent}{12em}%
23116 }-%
23117 }%
23118 }%
23119 }%
23120 }%

```



```

23121         }%
23122     }%
23123 }%
23124 }%
23125 }%
23126 }%
23127 }{%
23128     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
23129 }%
23130 }{%}%
23131 \@ifundefined{scr@tso@#1@numwidth}{%
23132     \@ifundefined{scr@#1@tocnumwidth}{%
23133         \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23134             \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23135                 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23136                     \scr@ifundefinedorrelax{chapter}{%
23137                         \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23138                             \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23139                                 \Ifstr{#1}{subsubsection}{%
23140                                     \@namedef{scr@tso@#1@numwidth}{3.2em}%
23141                                 }{%
23142                                     \Ifstr{#1}{paragraph}{%
23143                                         \@namedef{scr@tso@#1@numwidth}{4.1em}%
23144                                     }{%
23145                                         \Ifstr{#1}{subparagraph}{%
23146                                             \@namedef{scr@tso@#1@numwidth}{5m}%
23147                                         }{%
23148                                             }%
23149                                         }%
23150                                     }%
23151                                 }%
23152                             }%
23153                         }{%
23154                             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23155                                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
23156                                     \Ifstr{#1}{subsubsection}{%
23157                                         \@namedef{scr@tso@#1@numwidth}{3.1em}%
23158                                     }{%
23159                                         \Ifstr{#1}{paragraph}{%
23160                                             \@namedef{scr@tso@#1@numwidth}{5em}%
23161                                         }{%
23162                                             \Ifstr{#1}{subparagraph}{%
23163                                                 \@namedef{scr@tso@#1@numwidth}{6em}%
23164                                             }{%
23165                                                 }%
23166                                             }%
23167                                         }%
23168                                     }%
23169                                 }%
23170                             }%
23171                         }%
23172                     }%
23173                 }%
23174             }{%

```



```

23175 \namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
23176 }%
23177 }{}%
23178 }]{%
23179 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
23180 \ifnum \@nameuse{#1tocdepth}<\@ne
23181 \scr@ifundefinedorrelax{chapter}{%
23182 \addpenalty\@secpenalty
23183 \addvspace{1.0em \@plus\p@}%
23184 }{%
23185 \addpenalty{-\@highpenalty}%
23186 \vskip 1.0em \@plus\p@
23187 }%
23188 \else
23189 \addpenalty\@secpenalty
23190 \addvspace{1.0em \@plus\p@}%
23191 \fi
23192 \setlength\@tempdima{\@nameuse{scr@tso@#1@numwidth}}%
23193 \begingroup
23194 \parindent \z@ \bidi@rightskip \@pnumwidth
23195 \parfillskip -\@pnumwidth
23196 \leavevmode
23197 \bfseries
23198 \advance\bidi@leftskip\@tempdima
23199 \If Tocfeature{\@currentx}{noindent}{%
23200 \hskip -\bidi@leftskip
23201 }{%
23202 \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
23203 \hskip -\dimexpr \bidi@leftskip-\@nameuse{scr@tso@#1@indent}\relax
23204 }%
23205 ##1%
23206 \nobreak
23207 \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
23208 \par
23209 \penalty\@highpenalty
23210 \endgroup
23211 \fi
23212 }
23213
23214 \bidi@undef\scr@dte@def@l@targetocline
23215 \bidi@undef\scr@dte@largetocline@init
23216 \DeclareTOCEntryStyle{largetocline}[{%
23217 \DefineTOCEntryLengthOption{indent}%
23218 {scr@tso@}{\@indent}{entry indent}%
23219 \@ifundefined{#1tocdepth}{%
23220 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
23221 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
23222 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
23223 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
23224 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
23225 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
23226 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
23227 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
23228 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%

```



```

23229             \expandafter\let\csname #1tocdepth\expandafter\endcsname
23230             \csname #1numdepth\endcsname
23231         }%
23232     }%
23233 }%
23234 }%
23235 }%
23236 }%
23237 }%
23238 }%
23239 }%
23240 }{}%
23241 \@ifundefined{scr@tso@#1@indent}{%
23242     \ifundefined{scr@#1@tocindent}{%
23243         \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23244             \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23245                 \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
23246                     \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
23247                         \scr@ifundefinedorrelax{1@chapter}{%
23248                             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
23249                                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23250                                     \Ifstr{#1}{subsubsection}{%
23251                                         \@namedef{scr@tso@#1@indent}{3.8em}%
23252                                     }{}%
23253                                     \Ifstr{#1}{paragraph}{%
23254                                         \@namedef{scr@tso@#1@indent}{7em}%
23255                                     }{}%
23256                                     \Ifstr{#1}{subparagraph}{%
23257                                         \@namedef{scr@tso@#1@indent}{10em}%
23258                                     }{}%
23259                                     }%
23260                                 }%
23261                             }%
23262                         }%
23263                     }%
23264                 }{}%
23265                 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23266                     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
23267                         \Ifstr{#1}{subsubsection}{%
23268                             \@namedef{scr@tso@#1@indent}{7.0em}%
23269                         }{}%
23270                         \Ifstr{#1}{paragraph}{%
23271                             \@namedef{scr@tso@#1@indent}{10em}%
23272                         }{}%
23273                         \Ifstr{#1}{subparagraph}{%
23274                             \@namedef{scr@tso@#1@indent}{12em}%
23275                         }{}%
23276                         }%
23277                     }%
23278                 }%
23279             }%
23280         }%
23281     }%
23282 }%

```



```

23283         }%
23284     }%
23285 }%
23286 }{%
23287     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
23288 }%
23289 }{%
23290 }}{%
23291     \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
23292     \ifnum \@nameuse{#1tocdepth}<\@ne
23293         \scr@ifundefinedorrelax{chapter}{%
23294             \addpenalty\@secpenalty
23295             \addvspace{2.25em \@plus\p@}%
23296         }{%
23297             \addpenalty{-\@highpenalty}%
23298             \addvspace{2.25em \@plus\p@}%
23299         }%
23300     \else
23301         \addpenalty\@secpenalty
23302         \addvspace{2.25em \@plus\p@}%
23303     \fi
23304     \setlength\@tempdima{3em}%
23305     \begingroup
23306         \parindent \z@ \bidi@rightskip \@pnumwidth
23307         \parfillskip -\@pnumwidth
23308         \leavevmode
23309         \large
23310         \bfseries
23311         \Iftocfeature{\@currentt}{noindent}{%
23312             }{%
23313                 \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
23314             }%
23315             ##1%
23316             \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
23317         \par
23318         \nobreak
23319         \ifnum 0=
23320             \scr@ifundefinedorrelax{chapter}{\if@compatibility 1\else 0\fi}{1}\relax
23321             \global\@nobreaktrue
23322             \everypar{\global\@nobreakfalse\everypar{}}%
23323         \fi
23324     \endgroup
23325 \fi
23326 }
23327
23328 \renewcommand*{\scr@dte@tocline}[3]{%
23329     \ifnum \@nameuse{#1tocdepth}>\c@tocdepth
23330     \else
23331         \tocbasic@DependOnPenaltyAndTOCLevel{#1}%
23332         \addvspace{\@nameuse{scr@tso@#1@beforeskip}}\relax
23333         \@nameuse{Ifscr@tso@#1@dynindent}{%
23334             \expandafter\ifx\csname scr@tso@#1@indentfollows\endcsname\@empty
23335             \PackageWarning{tocbasic}{`dynindent' for `#1' not available}%
23336         \else

```



```

23337 \edef\reserved@a{\@nameuse{scr@tso@#1@indentfollows}}%
23338 \@for \reserved@a:=\reserved@a\do {%
23339 \scr@trim@spaces\reserved@a
23340 \ifx\reserved@a\@empty\else
23341 \scr@ifundefinedorrelax{\reserved@a tocdepth}{%
23342 }{%
23343 \ifnum \@nameuse{\reserved@a tocdepth}<\@nameuse{#1tocdepth}%
23344 \@tempdima\@nameuse{scr@tso@\reserved@a @indent}\relax
23345 \@nameuse{Ifscr@tso@\reserved@a @dynnumwidth}{%
23346 \scr@ifundefinedorrelax
23347 {scr@dte@\reserved@a @lastmaxnumwidth}{%
23348 \advance\@tempdima
23349 \@nameuse{scr@tso@\reserved@a @numwidth}\relax
23350 }{%
23351 \advance\@tempdima
23352 \@nameuse{scr@dte@\reserved@a @lastmaxnumwidth}\relax
23353 }%
23354 }{%
23355 \advance\@tempdima
23356 \@nameuse{scr@tso@\reserved@a @numwidth}\relax
23357 }%
23358 \ifdim \@tempdima>\@nameuse{scr@tso@#1@indent}\relax
23359 \expandafter\edef\csname scr@tso@#1@indent\endcsname
23360 {\the\@tempdima}%
23361 \fi
23362 \fi
23363 }%
23364 \fi
23365 }%
23366 \fi
23367 }{}%
23368 {%
23369 \Iftocfeature{\@currentt}{noindent}{%
23370 \bidi@leftskip \z@
23371 }{%
23372 \bidi@leftskip \@nameuse{scr@tso@#1@indent}\relax
23373 }%
23374 \bidi@rightskip \@nameuse{scr@tso@#1@rightindent}\relax
23375 \parfillskip -\bidi@rightskip
23376 \@nameuse{Ifscr@tso@#1@raggedpage}{%
23377 \addtolength{\parfillskip}{\z@ \@plus 1fil}%
23378 }{}%
23379 \Iftocfeature{\@currentt}{noindent}{%
23380 \parindent \z@
23381 }{%
23382 \parindent \@nameuse{scr@tso@#1@indent}\relax
23383 }%
23384 \@afterindenttrue
23385 \interlinepenalty\@M
23386 \expandafter\ifx\csname ragged#1entry\endcsname\raggedright
23387 \addtolength\bidi@rightskip\@flushglue
23388 \else
23389 \def\reserved@a{\raggedright}%
23390 \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a

```



```

23391         \addtolength\bidirightskip\@flushglue
23392     \else
23393         \renewcommand\reserved@a{\raggedright}%
23394         \expandafter\ifx\cename ragged#1entry\endcename\reserved@a
23395         \addtolength\bidirightskip\@flushglue
23396     \fi
23397 \fi
23398 \fi
23399 \leavevmode
23400 \@tempdima \@nameuse{scr@tso@#1@numwidth}\relax
23401 \@nameuse{Ifscr@tso@#1@dynnumwidth}{%
23402     \scr@ifundefinedorrelax{scr@dte@#1@lastmaxnumwidth}{%
23403         \ifdim \@nameuse{scr@dte@#1@lastmaxnumwidth}>\@tempdima
23404             \@tempdima \@nameuse{scr@dte@#1@lastmaxnumwidth}\relax
23405         \fi
23406     }%
23407 }{}%
23408 \advance\bidileftskip \@tempdima
23409 \null\nobreak\hskip -\bidileftskip
23410 {%
23411     \usetocbasicnumberline
23412     \let\scr@dte@numberline@box\numberline@box
23413     \def\numberline@box##1{%
23414         \sbox\scr@dte@tocline@numbox{\@nameuse{scr@tso@#1@numberformat}}{##1}}%
23415     \global\scr@dte@tocline@numberwidth
23416     \dimexpr\wd\scr@dte@tocline@numbox+\@nameuse{scr@tso@#1@numsep}\relax
23417     \relax
23418     \ifdim \scr@dte@tocline@numberwidth
23419         >\@nameuse{scr@dte@#1@maxnumwidth}\relax
23420     \global\@nameuse{scr@dte@#1@maxnumwidth}\scr@dte@tocline@numberwidth
23421     \fi
23422     \@nameuse{Ifscr@tso@#1@dynnumwidth}{%
23423         \ifdim \scr@dte@tocline@numberwidth
23424             >\dimexpr \@nameuse{scr@tso@#1@numwidth}%
23425             +\@nameuse{scr@tso@#1@numsep}\relax\relax
23426         \PackageWarning{tocbasic}{%
23427             number width of #1 toc entries should be
23428             increased!\MessageBreak
23429             Currently used number width =
23430             \the\wd\scr@dte@tocline@numbox,\MessageBreak
23431             Wanted number separation
23432             \space\space\space =
23433             \the\dimexpr\@nameuse{scr@tso@#1@numsep}\relax,\MessageBreak
23434             Reserved number width \space\space\space\space\space\space =
23435             \the\dimexpr\@nameuse{scr@tso@#1@numwidth}\relax%
23436         }%
23437     \fi
23438 }%
23439 \scr@dte@numberline@box{\@nameuse{scr@tso@#1@numberformat}}{##1}}%
23440 \@nameuse{Ifscr@tso@#1@breakafternumber}{%
23441     {\parfillskip\@flushglue\par}\nobreak\hskip-\bidileftskip
23442 }{}%
23443 }%
23444 {\@nameuse{scr@tso@#1@entryformat}}%

```




```

23445      #2%
23446      \nobreak
23447      {%
23448      \normalfont\normalsize\@nameuse{scr@tso@#1@linefill}%
23449      \nobreak
23450      \expandafter\let\expandafter\scr@dte@pagenumberwidth
23451      \csname scr@tso@#1@pagenumberwidth\endcsname
23452      \@nameuse{scr@tso@#1@pagenumberbox}{%
23453      \@nameuse{scr@tso@#1@pagenumberformat}{#3}%
23454      }%
23455      }%
23456      }}\@par
23457      }%
23458      }%
23459      \tocbasic@SetPenaltyByTOCLevel{#1}%
23460 \fi
23461 }
23462
23463
23464 \bidi@undef\scr@dte@def@1@tocline
23465 \bidi@undef\scr@dte@tocline@init
23466 \DeclareTOCEntryStyle{tocline}[{%
23467   \DefineTOCEntryLengthOption{before skip}%
23468   {scr@tso@}{@before skip}{vertical skip before the entry}%
23469   \DefineTOCEntryIfOption{break after number}%
23470   {scr@tso@}{@break after number}{line break after number flag}%
23471   \DefineTOCEntryIfOption{dynnumwidth}%
23472   {scr@tso@}{@dynnumwidth}{dynamic number width flag}%
23473   \DefineTOCEntryListOption{indent follows}%
23474   {scr@tso@}{@indent follows}{list of levels that define the indent}%
23475   \DefineTOCEntryIfOption{dynindent}%
23476   {scr@tso@}{@dynindent}{dynamic indent width flag}%
23477   \DefineTOCEntryCommandOption{entry format}%
23478   {scr@tso@}{@entry format}[1]{entry format}%
23479   \DefineTOCEntryCommandOption{entry number format}%
23480   {scr@tso@}{@number format}[1]{entry number format}%
23481   \DefineTOCEntryCommandOption{line fill}{\TOCLineLeaderFill}%
23482   {scr@tso@}{@line fill}{filling between text and page number}%
23483   \DefineTOCEntryLengthOption{numsep}%
23484   {scr@tso@}{@numsep}{entry number separation}%
23485   \DefineTOCEntryCommandOption{onstarthigherlevel}%
23486   {scr@tso@}{@LastTOCLevelWasLower}{start higher level entry hook}%
23487   \DefineTOCEntryCommandOption{onstartlowerlevel}%
23488   {scr@tso@}{@LastTOCLevelWasHigher}{start lower level entry hook}%
23489   \DefineTOCEntryCommandOption{onstartsamelevel}%
23490   {scr@tso@}{@LastTOCLevelWasSame}{start same level entry hook}%
23491   \DefineTOCEntryCommandOption{pagenumberbox}%
23492   {scr@tso@}{@pagenumberbox}[1]{page number box}%
23493   \DefineTOCEntryCommandOption{pagenumberformat}%
23494   {scr@tso@}{@pagenumberformat}[1]{page number format}%
23495   \DefineTOCEntryLengthOption{pagenumberwidth}%
23496   {scr@tso@}{@pagenumberwidth}{width of page number box}%
23497   \DefineTOCEntryLengthOption{rightindent}%
23498   {scr@tso@}{@rightindent}{entry's text right indent}%

```



```

23499 \DefineTOCEntryOption{raggedentrytext}[true]{%
23500   \FamilySetBool{KOMAAarg}{raggedentrytext}{@tempswa}{##1}%
23501   \ifx\FamilyKeyState\FamilyKeyStateProcessed
23502     \if@tempswa
23503       \expandafter\let\csname ragged\scr@dte@current entry\endcsname
23504       \raggedright
23505     \else
23506       \expandafter\let\csname ragged\scr@dte@current entry\endcsname
23507       \relax
23508     \fi
23509   \fi
23510 }%
23511 \DefineTOCEntryIfOption{raggedpagenumber}%
23512 {scr@tso@}{@raggedpage}{page number ragged flag}%
23513 \DefineTOCEntryLengthOption{indent}%
23514 {scr@tso@}{@indent}{entry indent}%
23515 \DefineTOCEntryLengthOption{numwidth}%
23516 {scr@tso@}{@numwidth}{entry number width}%
23517 \scr@ifundefinedorrelax{#1tocdepth}{%
23518   \Ifstrstart{#1}{sub}{%
23519     \scr@ifundefinedorrelax{\scr@dte@nosub{#1}tocdepth}{%
23520       \expandafter\edef\csname #1tocdepth\endcsname{%
23521         \the\numexpr \noexpand\@nameuse{\scr@dte@nosub{#1}tocdepth}+\@one\relax
23522       }%
23523     }%
23524   }{}%
23525 }{}%
23526 \@ifundefined{#1tocdepth}{%
23527   \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
23528     \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
23529       \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
23530         \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
23531           \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
23532             \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
23533               \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
23534                 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
23535                   \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
23536                     \expandafter\let\csname #1tocdepth\expandafter\endcsname
23537                     \csname #1numdepth\endcsname
23538                   }%
23539                 }%
23540               }%
23541             }%
23542           }%
23543         }%
23544       }%
23545     }%
23546   }{}%
23547 }{}%
23548 \scr@ifundefinedorrelax{scr@tso@#1@indent}{%
23549   \@ifundefined{scr@#1@tocindent}{%
23550     \Ifstrstart{#1}{sub}{%
23551       \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@indent}{%
23552         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%

```



```

23553         \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
23554             \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}}%
23555             \relax
23556         }%
23557     }%
23558 }{%
23559     \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
23560         \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
23561             \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}}%
23562             \relax
23563         }%
23564     }{%
23565         \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
23566             \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}}%
23567             +\noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}}%
23568             \relax
23569         }%
23570     }%
23571 }%
23572 }{}%
23573 }{%
23574     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
23575 }%
23576 }{}%
23577 \scr@ifundefinedorrelax{scr@tso@#1@pagenumberwidth}{%
23578     \Ifstrstart{#1}{sub}{%
23579         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@pagenumberwidth}{%
23580             \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}}%
23581         }{%
23582             \expandafter\let
23583             \csname scr@tso@#1@pagenumberwidth\expandafter\endcsname
23584             \csname scr@tso@\scr@dte@nosub{#1}@pagenumberwidth\endcsname
23585         }%
23586     }{%
23587         \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}}%
23588     }%
23589 }{}%
23590 \scr@ifundefinedorrelax{scr@tso@#1@rightindent}{%
23591     \Ifstrstart{#1}{sub}{%
23592         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@rightindent}{%
23593             \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}}%
23594         }{%
23595             \expandafter\let
23596             \csname scr@tso@#1@rightindent\expandafter\endcsname
23597             \csname scr@tso@\scr@dte@nosub{#1}@rightindent\endcsname
23598         }%
23599     }{%
23600         \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}}%
23601     }%
23602 }{}%
23603 \@ifundefined{scr@tso@#1@indent}{%
23604     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23605     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23606     \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%

```



```

23607 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
23608 \scr@ifundefinedorrelax{1@chapter}{%
23609 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{Opt}}{%
23610 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23611 \Ifstr{#1}{subsubsection}{%
23612 \@namedef{scr@tso@#1@indent}{3.8em}%
23613 }{%
23614 \Ifstr{#1}{paragraph}{%
23615 \@namedef{scr@tso@#1@indent}{7em}%
23616 }{%
23617 \Ifstr{#1}{subparagraph}{%
23618 \@namedef{scr@tso@#1@indent}{10em}%
23619 }{%
23620 }%
23621 }%
23622 }%
23623 }%
23624 }%
23625 }{%
23626 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23627 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
23628 \Ifstr{#1}{subsubsection}{%
23629 \@namedef{scr@tso@#1@indent}{7.0em}%
23630 }{%
23631 \Ifstr{#1}{paragraph}{%
23632 \@namedef{scr@tso@#1@indent}{10em}%
23633 }{%
23634 \Ifstr{#1}{subparagraph}{%
23635 \@namedef{scr@tso@#1@indent}{12em}%
23636 }{%
23637 }%
23638 }%
23639 }%
23640 }%
23641 }%
23642 }%
23643 }%
23644 }%
23645 }%
23646 }%
23647 }{%
23648 \scr@ifundefinedorrelax{scr@tso@#1@numwidth}{%
23649 \scr@ifundefinedorrelax{scr@#1@tocnumwidth}{%
23650 \Ifstrstart{#1}{sub}{%
23651 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{}%
23652 \expandafter\edef\csname scr@tso@#1@numwidth\endcsname{%
23653 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
23654 +.9em%
23655 \relax
23656 }%
23657 }%
23658 }{%
23659 }{%
23660 \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%

```



```

23661 }%
23662 }{}%
23663 \@ifundefined{scr@tso@#1@numwidth}{%
23664   \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23665     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23666       \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23667         \scr@ifundefinedorrelax{chapter}{%
23668           \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23669             \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23670               \Ifstr{#1}{subsubsection}{%
23671                 \@namedef{scr@tso@#1@numwidth}{3.2em}%
23672               }{%
23673                 \Ifstr{#1}{paragraph}{%
23674                   \@namedef{scr@tso@#1@numwidth}{4.1em}%
23675                 }{%
23676                   \Ifstr{#1}{subparagraph}{%
23677                     \@namedef{scr@tso@#1@numwidth}{5m}%
23678                   }{%
23679                     }%
23680                   }%
23681                 }%
23682               }%
23683             }%
23684           }{%
23685             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23686               \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
23687                 \Ifstr{#1}{subsubsection}{%
23688                   \@namedef{scr@tso@#1@numwidth}{3.1em}%
23689                 }{%
23690                   \Ifstr{#1}{paragraph}{%
23691                     \@namedef{scr@tso@#1@numwidth}{5em}%
23692                   }{%
23693                     \Ifstr{#1}{subparagraph}{%
23694                       \@namedef{scr@tso@#1@numwidth}{6em}%
23695                     }{%
23696                       }%
23697                     }%
23698                   }%
23699                 }%
23700               }%
23701             }%
23702           }%
23703         }%
23704       }%
23705     }{}%
23706   \expandafter\renewcommand%
23707   \csname scr@tso@#1@LastTOCLevelWasLower\endcsname{\LastTOCLevelWasLower}%
23708   \expandafter\renewcommand%
23709   \csname scr@tso@#1@LastTOCLevelWasSame\endcsname{\LastTOCLevelWasSame}%
23710   \expandafter\renewcommand%
23711   \csname scr@tso@#1@LastTOCLevelWasHigher\endcsname{\LastTOCLevelWasHigher}%
23712   \@ifundefined{scr@tso@#1@beforeskip}{%
23713     \Ifstr{#1}{part}{%
23714       \@namedef{scr@tso@#1@beforeskip}{\glueexpr 2.25em \@plus\p@relax}%

```



```

23715 }{%
23716 \Ifstr{#1}{chapter}{%
23717 \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
23718 }{%
23719 \Ifstr{#1}{section}{%
23720 \scr@ifundefinedorrelax{1@chapter}{%
23721 \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
23722 }{}%
23723 }{}%
23724 }%
23725 }%
23726 \expandafter\renewcommand\expandafter*%
23727 \csname scr@tso@#1@beforeskip\endcsname{\glueexpr \z@ plus .2\p@\relax}%
23728 }{}%
23729 \@ifundefined{scr@dte@#1@maxnumwidth}{%
23730 \expandafter\newlength\csname scr@dte@#1@maxnumwidth\endcsname
23731 \setlength{\@nameuse{scr@dte@#1@maxnumwidth}}{\z@}%
23732 }{}%
23733 \renewcommand*{\scr@dte@donumwidth}{}%
23734 \g@addto@macro{\scr@dte@donumwidth}{\do{#1}}%
23735 \expandafter\renewcommand\expandafter*%
23736 \csname scr@tso@#1@numsep\endcsname{.4em}%
23737 \expandafter\renewcommand%
23738 \csname scr@tso@#1@numberformat\endcsname[1]{##1}%
23739 \Ifstr{#1}{part}{%
23740 \expandafter\providecommand%
23741 \csname scr@tso@#1@entryformat\endcsname[1]{\large\bfseries ##1}%
23742 }{%
23743 \Ifstr{#1}{chapter}{%
23744 \expandafter\providecommand%
23745 \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
23746 }{%
23747 \scr@ifundefinedorrelax{1@chapter}{%
23748 \Ifstr{#1}{section}{%
23749 \expandafter\providecommand%
23750 \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
23751 }{}%
23752 }{}%
23753 \expandafter\providecommand%
23754 \csname scr@tso@#1@entryformat\endcsname[1]{##1}%
23755 }%
23756 }%
23757 \expandafter\renewcommand
23758 \csname Ifscr@tso@#1@breakafternumber\endcsname[2]{##2}%
23759 \@ifundefined{scr@tso@#1@linefill}{%
23760 \Ifstr{#1}{part}{%
23761 \@namedef{scr@tso@#1@linefill}{\hfill}%
23762 }{%
23763 \Ifstr{#1}{chapter}{%
23764 \@namedef{scr@tso@#1@linefill}{\hfill}%
23765 }{%
23766 \scr@ifundefinedorrelax{1@chapter}{%
23767 \Ifstr{#1}{section}{%
23768 \@namedef{scr@tso@#1@linefill}{\hfill}%

```



```

23769         }{}%
23770     }{}%
23771     \expandafter\renewcommand%
23772     \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
23773 }%
23774 }%
23775 }{}%
23776 \expandafter\renewcommand\csname Ifscr@tso@#1@raggedpage\endcsname[2]{##2}%
23777 \Ifstr{#1}{part}{%
23778     \expandafter\providecommand%
23779     \csname scr@tso@#1@pagenumberformat\endcsname[1]{\large\bfseries ##1}%
23780 }{%
23781     \Ifstr{#1}{chapter}{%
23782         \expandafter\providecommand%
23783         \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
23784     }{%
23785         \scr@ifundefinedorrelax{1@chapter}{%
23786             \Ifstr{#1}{section}{%
23787                 \expandafter\providecommand%
23788                 \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
23789             }{}%
23790         }{}%
23791         \expandafter\providecommand%
23792         \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23793             {\normalfont\normalcolor ##1}}%
23794     }%
23795 }%
23796 \expandafter\renewcommand%
23797 \csname scr@tso@#1@pagenumberbox\endcsname[1]{%
23798     \hb@xt@{\@nameuse{scr@dte@pagenumberwidth}}{\hfil ##1}}%
23799 \expandafter\renewcommand\csname Ifscr@tso@#1@dynnumwidth\endcsname[2]{##2}%
23800 \expandafter\renewcommand\csname Ifscr@tso@#1@dynindent\endcsname[2]{##2}%
23801 \scr@ifundefinedorrelax{scr@tso@#1@indentfollows}{%
23802     \Ifstrstart{#1}{sub}{%
23803         \expandafter\edef\csname scr@tso@#1@indentfollows\endcsname{%
23804             \scr@dte@nosub{#1}%
23805         }%
23806     }{%
23807         \expandafter\let\csname scr@tso@#1@indentfollows\endcsname\@empty
23808     }%
23809 }{}%
23810 }]}%
23811 \scr@dte@tocline{#1}{##1}{##2}%
23812 }
23813
23814 \if@bidi@csdef{scr@tso@figure@pagenumberformat}{%
23815     \renewcommand*{\scr@tso@figure@pagenumberformat}[1]{%
23816         {\normalfont\normalcolor #1}%
23817     }%
23818 }{}
23819
23820 \if@bidi@csdef{scr@tso@table@pagenumberformat}{%
23821     \renewcommand*{\scr@tso@table@pagenumberformat}[1]{%
23822         {\normalfont\normalcolor #1}%

```



```

23823 }%
23824 }{}
23825

```

160 File tocstyle-xetex-bidi.def

```

23826 \ProvidesFile{tocstyle-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tocstyle package]
23827 \renewcommand*{\tocstyle@dottedtocline}[5]{%
23828   \let\numberline\tocstyle@numberline
23829   \ifnum #1>\c@tocdepth \else
23830     \if@tocstyle@penalties
23831       \begingroup
23832         \@tempcnta 20010
23833         \advance \@tempcnta by -#1
23834         \ifnum \@tempcnta>\lastpenalty
23835           \aftergroup\penalty\aftergroup\@lowpenalty
23836         \fi
23837       \endgroup
23838     \fi
23839     \edef\tocstyledepth{#1}%
23840     \tocstyle@activate@features
23841     \ifx\tocstyle@feature@entryvskip\relax
23842       \vskip \z@ \@plus.2\p@
23843     \else
23844       \addvspace{\tocstyle@feature@entryvskip}%
23845     \fi
23846     {%
23847       \parskip \z@ \parindent \z@ \if@RTL\righskip\else\leftskip\fi \z@ \if@RTL\leftskip\else
23848       \tocstyle@feature@raggedhook
23849       \@tempdima #3\relax
23850       \@tempdimb #2\relax
23851       \typeout{m (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23852       \ifnum #1>\z@\relax
23853         \@tempcnta #1\relax \advance\@tempcnta \m@ne
23854         \ifcsname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23855           \ifcsname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23856             \@tempdimb
23857             \csname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23858             \advance\@tempdimb
23859             \csname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23860           \fi
23861         \fi
23862       \typeout{C (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23863       \ifcsname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname
23864         \ifdim \@tempdimb>
23865           \csname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname\relax
23866           \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
23867             @#1\endcsname{\the\@tempdimb}%
23868         \fi
23869       \else
23870         \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
23871           @#1\endcsname{\the\@tempdimb}%
23872       \fi
23873     }%

```




```

23874 \iftocstyle@autolength
23875 \ifcsname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
23876 \@tempdimb \csname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
23877 \relax
23878 \fi
23879 \ifcsname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
23880 \@tempdima \csname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
23881 \relax
23882 \fi
23883 \typeout{a (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23884 \typeout{A (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23885 \else
23886 \@tempdimb #2\relax
23887 \typeout{M (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23888 \fi
23889 \ifcsname tocstyle@unumwidth@\tocstyleTOC @\endcsname
23890 \ifdim \@tempdima>
23891 \csname tocstyle@unumwidth@\tocstyleTOC @\endcsname\relax
23892 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
23893 @\endcsname{\the\@tempdima}%
23894 \fi
23895 \else
23896 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
23897 @\endcsname{\the\@tempdima}%
23898 \fi
23899 \ifcase\tocstyle@indentstyle\relax\else
23900 \@tempdimb \z@
23901 \ifcsname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
23902 \@tempdima \csname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
23903 \relax
23904 \fi
23905 \typeout{s (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23906 \typeout{S (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23907 \fi
23908 \advance\parindent \@tempdimb\@afterindenttrue
23909 \advance\if@RTL\rightskip\else\leftskip\fi \parindent
23910 \advance\if@RTL\leftskip\else\rightskip\fi \@tocrmarg
23911 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
23912 \ifx\tocstyle@feature@parfillskip\relax\else
23913 \advance\parfillskip \tocstyle@feature@parfillskip\relax
23914 \fi
23915 \interlinepenalty\@M
23916 \leavevmode
23917 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
23918 \null\nobreak
23919 \iftocstyle@indentnotnumbered\else
23920 \hskip -\if@RTL\rightskip\else\leftskip\fi
23921 \fi
23922 \tocstyle@feature@entryhook
23923 {#4}\nobreak
23924 \ifx\tocstyle@feature@leaders\relax
23925 \leaders\hbox{$\m@th
23926 \mkern \@dotsep mu\hbox{\tocstyle@feature@dotohook .}%
23927 \mkern \@dotsep mu$}\hfill

```



```

23928     \else
23929         \tocstyle@feature@leaders
23930     \fi
23931     \nobreak
23932     \ifx\tocstyle@feature@pagenumberbox\relax
23933         \hb@xt@\@pnumwidth{\hfil\tocstyle@feature@pagenumberhook #5}%
23934     \else
23935         \tocstyle@feature@pagenumberbox{\tocstyle@feature@pagenumberhook #5}%
23936     \fi
23937     \par
23938 }%
23939 \if@tocstyle@penalties
23940     \bgroup
23941         \@tempcnta 20009
23942         \advance\@tempcnta by -#1
23943         \edef\reserved@a{\egroup\penalty\the\@tempcnta\relax}%
23944     \reserved@a
23945 \fi
23946 \fi}
23947 \renewcommand*{\tocstyle@numberline}[1]{%
23948 \begingroup
23949     \ifx\tocstyle@feature@spaceafternumber\relax
23950         \settowidth\@tempdima{\tocstyle@numberline{#1}\enskip}%
23951     \else
23952         \settowidth\@tempdima{\tocstyle@numberline{#1}}%
23953         \advance \@tempdima \tocstyle@feature@spaceafternumber\relax
23954     \fi
23955     \ifcsname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname
23956         \ifdim \@tempdima >
23957             \csname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname\relax
23958             \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
23959                 @\tocstyledepth\endcsname{\the\@tempdima}%
23960         \fi
23961     \else
23962         \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
23963             @\tocstyledepth\endcsname{\the\@tempdima}%
23964     \fi
23965 \endgroup
23966 \iftocstyle@indentnotnumbered
23967     \hskip -\if@RTL\rightskip\else\leftskip\fi
23968 \fi
23969 \ifcase \tocstyle@indentstyle
23970     \hb@xt@\@tempdima{\tocstyle@numberline{#1}\hfil}%
23971 \or
23972     \hb@xt@\@tempdima{\tocstyle@numberline{#1}\hfil}%
23973 \else
23974     \ifx\tocstyle@feature@spaceafternumber\relax
23975         \hbox{\tocstyle@numberline{#1}\enskip}%
23976     \else
23977         \hbox{\tocstyle@numberline{#1}\hskip
23978             \tocstyle@feature@spaceafternumber\relax}%
23979     \fi
23980 \fi
23981 }

```



```

23982 \AtBeginDocument{%
23983   \ifcsname l@part\endcsname
23984     \ifcsname l@chapter\endcsname
23985       \setbox\@tempboxa\vbox{\hsize\maxdimen
23986         \l@part{\tocstyle@l@define{part}{-1}}{}}%
23987     \else
23988       \setbox\@tempboxa\vbox{\hsize\maxdimen
23989         \l@part{\tocstyle@l@define{part}{0}}{}}%
23990     \fi
23991 \fi
23992 \ifcsname l@chapter\endcsname
23993   \setbox\@tempboxa\vbox{\hsize\maxdimen
23994     \l@chapter{\tocstyle@l@define{chapter}{0}}{}}%
23995 \fi
23996 \ifcsname l@section\endcsname
23997   \setbox\@tempboxa\vbox{\hsize\maxdimen
23998     \l@section{\tocstyle@l@define{section}{1}}{}}%
23999 \fi
24000 \ifcsname l@subsection\endcsname
24001   \setbox\@tempboxa\vbox{\hsize\maxdimen
24002     \l@subsection{\tocstyle@l@define{subsection}{2}}{}}%
24003 \fi
24004 \ifcsname l@subsubsection\endcsname
24005   \setbox\@tempboxa\vbox{\hsize\maxdimen
24006     \l@subsubsection{\tocstyle@l@define{subsubsection}{3}}{}}%
24007 \fi
24008 \ifcsname l@paragraph\endcsname
24009   \setbox\@tempboxa\vbox{\hsize\maxdimen
24010     \l@paragraph{\tocstyle@l@define{paragraph}{4}}{}}%
24011 \fi
24012 \ifcsname l@subparagraph\endcsname
24013   \setbox\@tempboxa\vbox{\hsize\maxdimen
24014     \l@subparagraph{\tocstyle@l@define{subparagraph}{5}}{}}%
24015 \fi
24016 \ifcsname l@table\endcsname
24017   \setbox\@tempboxa\vbox{\hsize\maxdimen
24018     \l@table{\tocstyle@l@define{table}{1}}{}}%
24019 \fi
24020 \ifcsname l@figure\endcsname
24021   \setbox\@tempboxa\vbox{\hsize\maxdimen
24022     \l@figure{\tocstyle@l@define{figure}{1}}{}}%
24023 \fi
24024 \def\@tempa#1#2#3#4#5{%
24025   \ifnum #1>\c@tocdepth \else
24026     \vskip \z@ \@plus.2\p@
24027     {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@toc
24028     \parindent #2\relax\@afterindenttrue
24029     \interlinepenalty\@M
24030     \leavevmode
24031     \@tempdima #3\relax
24032     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
24033     {#4}\nobreak
24034     \leaders\hbox{$\m@th
24035       \mkern \@dotsep mu\hbox{.}\mkern \@dotsep

```



```

24036         mu$}\hfill
24037         \nobreak
24038         \hb@xt@{\pnumwidth{\hfil \normalfont \normalcolor #5}}%
24039         \par}%
24040     \fi}%
24041 \ifx\@dottedtocline\@tempa\else
24042     \tocstyle@macrochangewarning\@dottedtocline
24043 \fi
24044 \let\tocstyle@saved\@dottedtocline\@dottedtocline
24045 \def\@tempa#1{\hb@xt@{\@tempdima{#1}\autodot\hfil}}%
24046 \ifx\numberline\@tempa\else
24047     \def\@tempa#1{\hb@xt@{\@tempdima{#1}\hfil}}%
24048     \ifx\numberline\@tempa\else
24049         \tocstyle@macrochangewarning\numberline
24050     \fi
24051 \fi
24052 \let\tocstyle@saved\numberline\numberline
24053 }
24054 \renewcommand*{\tocstyle@l@define}[2]{%
24055     \advance\ifRTL\rightskip\else\leftskip\fi-\@tempdima
24056     \edef\@tempa{%
24057         \noexpand\global\noexpand\let
24058         \expandafter\noexpand\csname tocstyle@saved@l@#1\endcsname
24059         \expandafter\noexpand\csname l@#1\endcsname
24060         \noexpand\gdef
24061         \expandafter\noexpand\csname tocstyle@l@#1\endcsname{%
24062             \noexpand\@dottedtocline{#2}{\the\ifRTL\rightskip\else\leftskip\fi}{\the\@tempdima}}%
24063         \noexpand\g@addto@macro\noexpand\tocstyle@activate@all@l{%
24064             \noexpand\let\expandafter\noexpand\csname l@#1\endcsname
24065             \expandafter\noexpand\csname tocstyle@l@#1\endcsname
24066         }%
24067     }%
24068     \PackageInfo{tocstyle}{prepare \expandafter\string
24069         \csname l@#1\endcsname\space for redefinition}%
24070     \@tempa
24071 }

```

161 File `todonotes-xetex-bidi.def`

```

24072 \ProvidesFile{todonotes-xetex-bidi.def}[2016/11/08 v0.4 bidi adaptations for todonotes packa
24073 \newif\if@bidi@todonotes@textdirection@RTL
24074 \newif\if@bidi@todonotes@figposition@right
24075 \newcommand{\@bidi@todonotes@align}{}%
24076 \define@key{todonotes}{align}{\renewcommand{\@bidi@todonotes@align}{#1}}%
24077 \newcommand{\@bidi@todonotes@textdirection}{}%
24078 \define@choicekey{todonotes}{textdirection}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right,
24079     \ifcase\@bidi@todonotes@tempb\relax
24080         \@bidi@todonotes@textdirection@RTLtrue
24081         \let\@bidi@todonotes@textdirection\RLE
24082     \or
24083         \@bidi@todonotes@textdirection@RTLfalse
24084         \let\@bidi@todonotes@textdirection\LRE
24085     \fi}
24086 \define@choicekey{todonotes}{figposition}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right,

```



```

24087 \ifcase\@bidi@todonotes@tempb\relax
24088 \@bidi@todonotes@figposition@righttrue
24089 \or
24090 \@bidi@todonotes@figposition@rightfalse
24091 \fi}
24092 \if@todonotes@disabled%
24093 \else % \if@todonotes@disabled
24094 \renewcommand{\@todonotes@drawInlineNote}{%
24095 \if@todonotes@dviStyle%
24096 {\par\noindent\begin{tikzpicture}[remember picture]%
24097 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
24098 \if@todonotes@authorgiven%
24099 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
24100 \else%
24101 {\noindent \@todonotes@sizecommand \@todonotes@text}%
24102 \fi
24103 {\par\noindent\begin{tikzpicture}[remember picture]%
24104 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
24105 \else%
24106 {\par\noindent\begin{tikzpicture}[remember picture]%
24107 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
24108 \draw node[inlinenotestyle,font=\@todonotes@sizecommand,align=\@bidi@todonotes@
24109 \if@todonotes@authorgiven%
24110 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text
24111 \else%
24112 {\noindent \@todonotes@sizecommand \@todonotes@text}%
24113 \fi};%
24114 \end{tikzpicture}\par}%
24115 \fi}%
24116 \renewcommand{\@todonotes@drawMarginNoteWithLine}{%
24117 \begin{tikzpicture}[remember picture, overlay, baseline=-0.75ex]%
24118 \node [coordinate] (inText) {};%
24119 \end{tikzpicture}%
24120 \marginpar[{\% Draw note in left margin
24121 \@todonotes@drawMarginNote%
24122 \if@RTL\@todonotes@drawLineToRightMargin\else\@todonotes@drawLineToLeftMargin\fi%
24123 }]{\% Draw note in right margin
24124 \@todonotes@drawMarginNote%
24125 \if@RTL\@todonotes@drawLineToLeftMargin\else\@todonotes@drawLineToRightMargin\fi%
24126 }%
24127 }%
24128 \renewcommand{\@todonotes@drawMarginNote}{%
24129 \if@todonotes@dviStyle%
24130 \begin{tikzpicture}[remember picture]%
24131 \draw node[notestyle] {};%
24132 \end{tikzpicture}\\%
24133 \begin{minipage}{\@todonotes@textwidth}%
24134 \if@todonotes@authorgiven%
24135 \@todonotes@sizecommand \@todonotes@author \@todonotes@text%
24136 \else%
24137 \@todonotes@sizecommand \@todonotes@text%
24138 \fi%
24139 \end{minipage}\\%
24140 \begin{tikzpicture}[remember picture]%

```



```

24141         \draw node[notestyle] (inNote) {};%
24142     \end{tikzpicture}%
24143 \else%
24144     \let\originalHbadness\hbadness%
24145     \hbadness 100000%
24146     \begin{tikzpicture}[remember picture,baseline=(X.base)]%
24147         \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
24148         \node(X){\vphantom{X}};%
24149         \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@text};%
24150         \if@todonotes@authorgiven%
24151             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@sizecommand\@todonotes@author};%
24152             \node(Y)[below=of X]{};%
24153             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@text};%
24154         \else%
24155             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@text};%
24156         \fi%
24157     \end{tikzpicture}%
24158     \hbadness \originalHbadness%
24159 \fi}%
24160 \renewcommand{\missingfigure}[2][]{%
24161     \setkeys{todonotes}{#1}%
24162     \addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: #2}%
24163 \par
24164 \noindent
24165 \begin{tikzpicture}
24166     \draw[fill=\@todonotes@currentfigcolor, draw = black!40, line width=2pt]
24167         (-2, -2.5) rectangle +(\@todonotes@currentfigwidth, \@todonotes@currentfigheight);
24168     \if@bidi@todonotes@figposition@right%
24169         \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
24170             \draw[red, fill=white, rounded corners = 5pt, line width=10pt]
24171                 (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
24172             \if@bidi@todonotes@figposition@right%
24173                 \end{scope}
24174             \begin{scope}[xshift=-3.8cm]
24175                 \draw (2, -0.3) node[right, text
24176                     width=\@todonotes@currentfigwidth-4.5cm,align=\@bidi@todonotes@align] {#2};
24177                 \if@bidi@todonotes@figposition@right%
24178                     \end{scope}
24179                 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
24180                     \draw (0, 0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@text}};
24181                     \draw (0, -0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@text}};
24182                 \end{scope}
24183             \end{scope}
24184         \end{tikzpicture}\hfill
24185 \end{missingfigure command

```



```

24195 \fi % Ending \@todonotes@ifdisabled
24196 \presetkeys%
24197     {todonotes}%
24198     {align=left,%
24199     textdirection=lefttoright,%
24200     figposition=left}{}%

```

162 File wrapfig-xetex-bidi.def

```

24201 \ProvidesFile{wrapfig-xetex-bidi.def}[2014/04/23 v0.3 bidi adaptations for wrapfig package f
24202 \let\WF@@everypar\bidin@everypar
24203 \def\WF@putfigmaybe{%
24204 \ifinner
24205   \vskip-\parskip \global\WF@floatfalse
24206   \let\pagetotal\maxdimen % kludge flag for "not top of page"
24207 \else % outer page
24208   \@tempdima\pagedepth % save page depth
24209   {\advance\parskip\@tempdima\ifRTL\advance\parskip\baselineskip\fi\vskip-\parskip}% back
24210   \penalty\interlinepenalty % update pg. parameters
24211   \@tempdimb\pagegoal \advance\@tempdimb-\pagetotal % room left on page
24212   \ifdim\@tempdimb<\z@ % \WF@info{Page overfull already;}%
24213     \global\WF@floatfalse
24214     \ifdim-\@tempdimb>\pageshrink \else \pagebreak \fi
24215   \else
24216     \ifdim\WF@size>\@tempdimb
24217       \ifWF@float \dimen@.5\baselineskip \else \dimen@ 2\baselineskip\fi
24218       \ifdim\pagestretch>\dimen@ \dimen@\pagestretch \fi
24219       \ifdim\pagefilstretch>\z@ \dimen@\@tempdimb \fi
24220       \ifdim\pagefillstretch>\z@ \dimen@\@tempdimb \fi
24221       \advance\dimen@.5\baselineskip
24222       \ifdim\dimen@>\@tempdimb % \WF@info{Page nearly full; can stretch;}%
24223         \global\WF@floatfalse \pagebreak
24224       \fi
24225     \else % \WF@info{Fits in \the\@tempdimb;}%
24226       \global\WF@floatfalse
24227     \fi\fi
24228     \vskip\@tempdima\relax % (return erased page depth)
24229 \fi
24230 \noindent
24231 \ifWF@float
24232   \WF@fltmes
24233 \else % putting here;
24234   \WF@info{Put \WF@wfname here:}%
24235   {\ifodd\if@twoside\c@page\else\@ne\fi % assign l/r to i/o placement
24236     \lccode`i`\lccode`o`r\else \lccode`i`r\lccode`o`l\fi
24237     \xdef\WF@place{\the\lccode\lccode\WF@place}}% twice to get only l or r
24238   \hbox to\z@{% llap or rlap depending on {l} or {r}; calc effective width
24239     \@tempdima\wd\WF@box \@tempdimb\WF@ovh
24240     \advance\@tempdima-\@tempdimb \advance\@tempdima\columnsep
24241     \@tempdimb\hsize \advance\@tempdimb-\@tempdima
24242     \xdef\WF@adjlw{\the\@tempdima}%
24243     \ifnum `l=\WF@place % fig on left
24244       \ifRTL%
24245         \kern\@tempdimb \kern\columnsep

```



```

24246 \def\@tempa{\hss}% position to left of the gap
24247 \else%
24248 \hss % figure overlaps space to the left
24249 \def\@tempa{\kern\columnsep}% position to left of the gap
24250 \fi%
24251 \else % fig on right
24252 \if@RTL%
24253 \hss
24254 \@tempdima\z@
24255 \def\@tempa{\kern\columnsep}
24256 \else%
24257 \@tempdima\z@ % no left indentation
24258 \kern\@tempdimb \kern\columnsep
24259 \def\@tempa{\hss}% figure overlaps space to the right
24260 \fi%
24261 \fi
24262 \ifdim\@tempdimb<\hsize
24263 \xdef\WF@wrapil{\the\@tempdima \the\@tempdimb}% indentation and length
24264 \xdef\WF@adjtlm{\the\@tempdima}%
24265 \else
24266 \xdef\WF@wrapil{\z@ \the\hsize}%
24267 \xdef\WF@adjlw{\z@}\xdef\WF@adjtlm{\z@}%
24268 \fi
24269 \ifdim\pagetotal=\z@ % \WF@info{Put \WF@wfname at top of p.\thepage}%
24270 \global\advance\WF@size-\intextsep
24271 \else % \WF@info{Putting \WF@wfname in middle of page}%
24272 \setbox\WF@box\hbox{\lower\intextsep\box\WF@box}%
24273 \fi \dp\WF@box\z@ \box\WF@box \@tempa
24274 }% end \hbox to Opt
24275 \aftergroup\WF@startwrapping % after the \endgroup which immediately follows
24276 \fi}

```

163 File xcolor-xetex-bidi.def

```

24277 \ProvidesFile{xcolor-xetex-bidi.def}[2022/06/13 v0.3 bidi adaptations for xcolor package for
24278 \long\def\color@b@x#1#2#3%
24279 {\leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
24280 \setbox\z@\hbox{\kern\fbboxsep\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
24281 \dimen@ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
24282 \dimen@dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
24283 {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}\box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
24284 \protected\def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup
24285 \DeclareRobustCommand\color
24286 {\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\ifnextchar[\@undeclaredcolor\@declaredcolor]}
24287 \def\@undeclaredcolor[#1]#2%
24288 {\begingroup
24289 \let\@ccls@empty
24290 \XC@getmodclr12{#1}{#2}{}}%
24291 {\ifblendcolors
24292 \ifx\colorblend\@empty\else
24293 \edef\@mix{\expandafter@gobble\colorblend}\@tempswafalse
24294 \XC@coremodel\@mod\@clr\xcolor@{}{}\@mod\@clr
24295 \fi
24296 \fi}

```




```

24297 \ifconvertcolorsU
24298 \edef\@tmp{\XC@tgt@mod{\@mod}}%
24299 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
24300 \fi
24301 \ifmaskcolors
24302 \convertcolorspec\@mod\@clr\XC@mmod\@clr
24303 \let\@mod\XC@mmod
24304 \XC@inflate\@mod\XC@mclr\@clr\@tmp
24305 \expandafter\XC@mul\@tmp,\@clr
24306 \fi
24307 \edef\@tmp{\noexpand\XC@undeclaredcolor{\@mod}{\@clr}}%
24308 \expandafter\endgroup\@tmp}}
24309 \def\@declaredcolor#1%
24310 {\XC@edef\XC@tmp{#1}\XC@tstfalse
24311 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
24312 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
24313 \ifconvertcolorsU\XC@tsttrue\fi
24314 \fi
24315 \ifXC@tst
24316 \expandafter\XC@declaredcolor\else
24317 \expandafter\XC@declaredcolor\fi}
24318 \def\XC@undeclaredcolor#1#2%
24319 {\@ifundefinedmodel{#1}%
24320 {\c@lor@error{model `#1'}}%
24321 {\@nameuse{color@#1}\current@color{#2}}%
24322 \edef\XC@current@color{\noexpand\xcolor@}{\current@color}{#1}{#2}}%
24323 \XC@display}\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
24324 \def\XC@declaredcolor
24325 {\XC@let\Nc\XC@current@color{\string\color@\XC@tmp}}%
24326 \edef\current@color{\XC@current@color}%
24327 \XC@display\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
24328 \DeclareRobustCommand\bidicolor
24329 {\@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
24330 \def\@bidiundeclaredcolor[#1]#2%
24331 {\begingroup
24332 \let\@cls\@empty
24333 \XC@getmodclr12{#1}{#2}{}}%
24334 {\ifblendcolors
24335 \ifx\colorblend\@empty\else
24336 \edef\@mix{\expandafter\@gobble\colorblend}\@tempswafalse
24337 \XC@coremodel\@mod\@clr\xcolor@}{\@mod\@clr
24338 \fi
24339 \fi
24340 \ifconvertcolorsU
24341 \edef\@tmp{\XC@tgt@mod{\@mod}}%
24342 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
24343 \fi
24344 \ifmaskcolors
24345 \convertcolorspec\@mod\@clr\XC@mmod\@clr
24346 \let\@mod\XC@mmod
24347 \XC@inflate\@mod\XC@mclr\@clr\@tmp
24348 \expandafter\XC@mul\@tmp,\@clr
24349 \fi
24350 \edef\@tmp{\noexpand\XC@bidiundeclaredcolor{\@mod}{\@clr}}%

```



```

24351 \expandafter\endgroup\@@tmp}}
24352 \def\XC@bidiundeclaredcolor#1#2%
24353 {\@ifundefinedmodel{#1}%
24354 {\color@error{model `#1'}}%
24355 {\@nameuse{color@#1}\current@color{#2}}%
24356 \edef\XC@current@color{\noexpand\xcolor@{}{\current@color}{#1}{#2}}%
24357 \XC@display}}
24358 \def\@bidideclaredcolor#1%
24359 {\XC@edef\XC@@tmp{#1}\XC@@tstfalse
24360 \ifcase\XC@type\XC@@tmp\relax \XC@@tsttrue\or \relax\else
24361 \ifblendcolors\XC@@tsttrue\fi \ifmaskcolors\XC@@tsttrue\fi
24362 \ifconvertcolorsU\XC@@tsttrue\fi
24363 \fi
24364 \ifXC@@tst
24365 \expandafter\XC@bidideclaredcolor\else
24366 \expandafter\XC@bidideclaredcolor\fi}
24367 \def\XC@bidideclaredcolor
24368 {\XC@split\XC@@tmp
24369 \edef\@@tmp{\noexpand\@bidiundeclaredcolor[\@@mod]{\@@clr}}%
24370 \expandafter\endgroup\@@tmp}
24371 \def\XC@bidideclaredcolor
24372 {\XC@let\Nc\XC@current@color{\string\color@\XC@@tmp}%
24373 \edef\current@color{\XC@current@color}%
24374 \XC@display}
24375 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
24376 \def\color@fb@x#1#2#3{\protect\color@fb@x{#1}{#2}{#3}}
24377 \def\color@fb@x#1#2#3#4%
24378 {\color@b@x{\fb@xsep\z@\bidicolor#1{#2}\XC@fb@x}%
24379 {\@ifxempty{#3}{\bidicolor#1}{\bidicolor#3}{#4}}}
24380 \def\color@setgroup{\begingroup\ifhmode\ifRTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode

```

164 File latex-xetex-bidi.def

```

24381 \ProvidesFile{latex-xetex-bidi.def}[2025/12/19 v1.5.6 bidi adaptations for `latex.ltx' for
24382 \newcommand{\TeXXeTOn}{\TeXXeTstate@ne}
24383 \newcommand{\TeXXeTOff}{\TeXXeTstate@z@}
24384 \TeXXeTOn
24385 \def\bidi@RTL@everypar{\setbox\z@\lastbox\ifRTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox\z@}
24386 \let\bidi@o@everypar=\everypar
24387 \newtoks\bidi@n@everypar
24388 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
24389 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
24390 \let\everypar=\bidi@n@everypar
24391 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
24392 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
24393 \protected\def\hboxR{\hbox\bgroup
24394 \everyhbox{%
24395 \aftergroup\egroup
24396 \everyhbox{}%
24397 \beginR
24398 \@hboxRconstructtrue
24399 \bgroup
24400 \aftergroup\endR
24401 \aftergroup\egroup

```



```

24402 } \hbox}
24403 \protected\def\hboxL{\hbox\bgroup
24404 \everyhbox{%
24405 \aftergroup\egroup
24406 \everyhbox{}}%
24407 \beginL
24408 \@hboxRconstructfalse
24409 \bgroup
24410 \aftergroup\endL
24411 \aftergroup\egroup
24412 } \hbox}
24413 \protected\def\vboxR{\vbox\bgroup
24414 \everyvbox{%
24415 \aftergroup\egroup
24416 \everyvbox{}}%
24417 \@RTLtrue
24418 \@RTLtabtrue
24419 \bgroup
24420 \aftergroup\egroup
24421 } \vbox}
24422 \protected\def\vboxL{\vbox\bgroup
24423 \everyvbox{%
24424 \aftergroup\egroup
24425 \everyvbox{}}%
24426 \@RTLfalse
24427 \@RTLtabfalse
24428 \bgroup
24429 \aftergroup\egroup
24430 } \vbox}
24431 \newcommand*{\bidi@leftskip}{\if@RTL\righskip\else\leftskip\fi}
24432 \newcommand*{\bidi@rightskip}{\if@RTL\leftskip\else\righskip\fi}
24433 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\hsize\linewidth\parshape\z@\bidi@beamer}
24434 \def\endLTR{\par}
24435 \newenvironment{LTR*}{\LTR
24436 \everypar{%
24437 {\setbox\z@\lastbox
24438 \ifvoid\z@
24439 \kern-\parindent
24440 \fi}%
24441 }%
24442 }{\endLTR\@endpetrue}
24443 \def\RTL{\par\@RTLtrue\@RTL@footnotettrue\@RTLtabtrue\hsize\linewidth\parshape\z@\bidi@beamer}
24444 \def\endRTL{\par}
24445 \newenvironment{RTL*}{\RTL
24446 \everypar{%
24447 {\setbox\z@\lastbox
24448 \ifvoid\z@
24449 \kern-\parindent
24450 \fi}%
24451 }%
24452 }{\endRTL\@endpetrue}
24453 \def\setRTL{\@RTLtrue\@RTL@footnotettrue\@RTLtabtrue\bidi@beamer@ragged}
24454 \def\setLTR{\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\bidi@beamer@ragged}
24455 \let\unsetRTL=\setLTR

```



```

24456 \let\unsetLTR=\setRTL
24457 \let\LR=\LRE
24458 \let\RL=\RLE
24459 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
24460 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
24461 \let\@ensure@RL=\@ensure@RTL
24462 \let\@ensure@LR=\@ensure@LTR
24463 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
24464 \let\@ensure@maindir=\@ensure@dir
24465 \def\@RTL{RTL}
24466 \def\@LTR{LTR}
24467 \def\save@dir{\if@RTL\gdef\save@@dir{RTL}\else\gdef\save@@dir{LTR}\fi}
24468 \def\reset@dir{\ifx\save@@dir\@RTL\setRTL\else\ifx\save@@dir\@LTR\setLTR\else\relax\fi}
24469 \let\@TeX\TeX
24470 \def\TeX{\@ensure@LTR{\@TeX}}
24471 \let\@LaTeX\LaTeX
24472 \def\LaTeX{\@ensure@LTR{\@LaTeX}}
24473 \let\@LaTeXe\LaTeXe
24474 \def\LaTeXe{\@ensure@LTR{\@LaTeXe}}
24475 \long\def\@bidi@reflect@box#1{%
24476   \leavevmode
24477   \setbox\z@\hbox{#1}%
24478   \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
24479   \hb@xt@\wd\z@{\kern\wd\z@\box\tw@\hss}%
24480 }
24481 \if@bidi@csundef{XeTeX}{%
24482 \bidi@newrobustcmd*{\XeTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
24483   \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}%
24484 }{%
24485 \let\@bidi@orig@XeTeX\XeTeX
24486 \bidi@renewrobustcmd*{\XeTeX}{\LR{\@bidi@orig@XeTeX}}%
24487 }
24488 \if@bidi@csundef{XeLaTeX}{%
24489 \bidi@newrobustcmd*{\XeLaTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
24490   \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \LaTeX}}$}}%
24491 }{%
24492 \let\@bidi@orig@XeLaTeX\XeLaTeX
24493 \bidi@renewrobustcmd*{\XeLaTeX}{\LR{\@bidi@orig@XeLaTeX}}%
24494 }
24495 \let\setRL=\setRTL
24496 \let\setLR=\setLTR
24497 \let\unsetRL=\setLTR
24498 \def\bidi@tabular@RTLcases{\let\@halignto\@empty\@bidi@tabular@RTLcases}
24499 \ApplyPatchIfPackageLoaded{array}{%
24500 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
24501   \leavevmode
24502   \hbox \bgroup $\left.\col@sep\tabcolsep \let\dollarbegin\begin\group
24503                                     \let\dollarend\endgroup
24504   \@tabarray}
24505 \def\endbidi@tabular@RTLcases{\endarray \right\rbrace$\egroup}
24506 }{%
24507 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
24508   \leavevmode \hbox \bgroup
24509   $\left.\let\@acol\@tabacol

```



```

24510 \let\@classz\@tabclassz
24511 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
24512
24513 \def\endbidi@tabular@RTLcases{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
24514 \egroup\right\rbrace $\egroup}}
24515 \def\RTLcases#1{\left.\vcenter{\normalbaselines\m@th
24516 \ialign{##\hfil$\quad{##}\hfil\crr#1\crr}}\,\right\}}
24517 \renewenvironment{RTLcases}{%
24518 \bidi@matrix@check\RTLcases\env@RTLcases
24519 }{%
24520 \endbidi@tabular@RTLcases%
24521 }
24522 \def\env@RTLcases{%
24523 \let\@ifnextchar\bidi@new@ifnextchar
24524 \def\arraystretch{1.2}%
24525 \bidi@tabular@RTLcases{@{}r@{\quad}r@{}}%
24526 }
24527 \def\SepMark#1{\gdef\@SepMark{#1}}
24528 \SepMark{.}
24529 \def\@thmcountersep{\@SepMark}
24530 \def\setRTLbibitems{\@RTLbibitemstrue\@LTRbibitemsfalse}
24531 \def\setLTRbibitems{\@LTRbibitemstrue\@RTLbibitemsfalse}
24532 \def\setdefaultbibitems{\@RTLbibitemsfalse\@LTRbibitemsfalse}
24533 \newcommand*{\bidi@thebibliography@font@hook}{ }
24534 \def\list#1#2{%
24535 \ifnum \@listdepth >5\relax
24536 \toodeep
24537 \else
24538 \global\advance\@listdepth\@ne
24539 \fi
24540 \rightmargin\z@
24541 \listparindent\z@
24542 \itemindent\z@
24543 \csname @list\romannumeral\the\@listdepth\endcsname
24544 \def\@itemlabel{#1}%
24545 \let\makelabel\@mklab
24546 \@nmblistfalse
24547 #2\relax
24548 \@trivlist
24549 \parskip\parsep
24550 \parindent\listparindent
24551 \advance\linewidth -\rightmargin
24552 \advance\linewidth -\leftmargin
24553 \if@bidi@list@minipage@parbox
24554 \if@RTL
24555 \advance\@totalleftmargin \leftmargin
24556 \else
24557 \advance\@totalleftmargin \rightmargin
24558 \fi
24559 \else
24560 \if@hboxRconstruct
24561 \if@bidi@list@minipage@parbox@not@nob
24562 \if@RTL
24563 \advance\@totalleftmargin \rightmargin

```



```

24564 \else
24565 \advance\@totalleftmargin \leftmargin
24566 \fi
24567 \else
24568 \if@RTL
24569 \advance\@totalleftmargin \leftmargin
24570 \else
24571 \advance\@totalleftmargin \rightmargin
24572 \fi\fi
24573 \else
24574 \if@RTL
24575 \advance\@totalleftmargin \rightmargin
24576 \else
24577 \advance\@totalleftmargin \leftmargin
24578 \fi\fi\fi
24579 \parshape \@ne \@totalleftmargin \linewidth
24580 \ignorespaces}
24581 \long\def\@iiiparbox#1#2[#3]#4#5{%
24582 \leavevmode
24583 \@pboxswfalse
24584 \if@hboxRconstruct
24585 \@bidi@list@minipage@parbox@not@nobtrue
24586 \fi
24587 \if@RTL
24588 \ifx#1t%
24589 \@bidi@list@minipage@parboxtrue
24590 \else
24591 \ifx#1b%
24592 \@bidi@list@minipage@parboxtrue
24593 \fi
24594 \fi
24595 \fi
24596 \setlength\@tempdima{#4}%
24597 \@begin@tempboxa\vbox{\hsize\@tempdima\@parboxrestore#5\@par}%
24598 \ifx\relax#2\else
24599 \setlength\@tempdimb{#2}%
24600 \edef\@parboxto{to\the\@tempdimb}%
24601 \fi
24602 \if#1b\vbox
24603 \else\if #1t\vtop
24604 \else\ifmmode\vcenter
24605 \else\@pboxswtrue $\vcenter
24606 \fi\fi\fi
24607 \@parboxto{\let\hss\vss\let\unhbox\unvbox
24608 \csname bm@#3\endcsname}%
24609 \if@pboxsw \m@th$\fi
24610 \@end@tempboxa}
24611 \newenvironment{LTRitems}
24612 {\par\@RTLfalse\@RTLtabfalse\bidi@beamer@ragged
24613 \if@bidi@list@minipage@parbox
24614 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
24615 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24616 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
24617 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi

```



```

24618             \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24619             \ignorespaces}{\vskip\z@}
24620 \newenvironment{RTLitems}
24621     {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
24622     \if@bidi@list@minipage@parbox
24623     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
24624     \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24625     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
24626     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24627     \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24628     \ignorespaces}{\vskip\z@}
24629 \newenvironment{LTRbibitems}
24630     {\par\@RTLfalse\@RTLtabfalse\@bidi@beamer@ragged
24631     \if@bidi@list@minipage@parbox
24632     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
24633     \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24634     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
24635     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24636     \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24637     \ignorespaces}{\vskip\z@}
24638 \newenvironment{RTLbibitems}
24639     {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
24640     \if@bidi@list@minipage@parbox
24641     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
24642     \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24643     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
24644     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24645     \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24646     \ignorespaces}{\vskip\z@}
24647 \def\raggedright{%
24648     \let\\\@centercr\@rightskip\@flushglue \rightskip\@rightskip
24649     \leftskip\z@skip
24650     \parindent\z@\parfillskip\z@skip}
24651 \let\@bidi@orig@raggedleft\raggedleft
24652 \let\@bidi@orig@raggedright\raggedright
24653 \renewcommand\raggedleft{\if@bidi@list@minipage@parbox\@bidi@orig@raggedright\else\if@hboxRco
24654 \renewcommand\raggedright{\if@bidi@list@minipage@parbox\@bidi@orig@raggedleft\else\if@hboxRco
24655 \newcommand{\@bidi@raggedright}{\if@RTL\raggedleft\else\raggedright\fi}
24656 \newcommand{\@bidi@raggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
24657 \DeclareRobustCommand\centerline[1]{%
24658 \if@RTL\@@line{\hss\beginR#1\endR\hss}
24659 \else\@@line{\hss#1\hss}\fi}
24660 \def\@bidi@orig@leftline#1{%
24661 \if@RTL\@@line{\beginR#1\endR\hss}
24662 \else\@@line{#1\hss}\fi}
24663 \def\@bidi@orig@rightline#1{%
24664 \if@RTL\@@line{\hss\beginR#1\endR}
24665 \else\@@line{\hss#1}\fi}
24666 \DeclareRobustCommand\leftline[1]{\ifhmode\if@RTL\@bidi@orig@rightline{#1}\else\@bidi@orig@lef
24667 \DeclareRobustCommand\rightline[1]{\ifhmode\if@RTL\@bidi@orig@leftline{#1}\else\@bidi@orig@rig
24668 \DeclareRobustCommand\bidirlap[1]{\hb@xt@\z@{\if@RTL\hss\fi#1\if@RTL\else\hss\fi}}
24669 \DeclareRobustCommand\bidillap[1]{\hb@xt@\z@{\if@RTL\else\hss\fi#1\if@RTL\hss\fi}}
24670 \def\@hangfrom#1{\setbox\@tempboxa\hbox{#1}}%
24671     \hangindent \if@RTL-\else\fi\wd\@tempboxa\noindent\box\@tempboxa}

```



```

24672 \def\narrower{%
24673   \advance\if@RTL\rightskip\else\leftskip\fi\parindent
24674   \advance\if@RTL\leftskip\else\rightskip\fi\parindent}
24675 \DeclareRobustCommand\underscore[i]{%
24676   \relax
24677   \ifmmode\@@underline{#1}%
24678   \else
24679   \if@RTL $\@@underline{\hbox{\beginR#1\endR}}\m@th$\relax
24680 \else
24681 $\@@underline{\hbox{#1}}\m@th$\relax\fi\fi}
24682 \if@compatibility
24683   \let\undertext=\underline
24684 \fi
24685 \def\@tabular{%
24686   \leavevmode \hbox \bgroup \if@RTLtab\beginR \fi
24687   $\let\@acol\@tabacol
24688   \let\@classz\@tabclassz
24689   \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
24690 \def\endtabular{\crrc\egroup\if@RTLtab\egroup\endR\egroup\fi
24691   \egroup $\if@RTLtab\endR\fi\egroup}
24692 \expandafter \let \csname endtabular*\endcsname = \endtabular
24693 \def\@array[#1]#2{%
24694   \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
24695   \bgroup
24696   \setbox\@arstrutbox\hbox{%
24697     \vrule \@height\arraystretch\ht\strutbox
24698     \@depth\arraystretch \dp\strutbox
24699     \@width\z@}%
24700   \mkpream{#2}%
24701   \edef\@preamble{%
24702     \ialign \noexpand\@halignto
24703       \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
24704   \let\@startpbox\@startpbox \let\@endpbox\@endpbox
24705   \let\tabularnewline\\
24706   \let\par\empty
24707   \let\sharp##%
24708   \set@typeset@protect
24709   \lineskip\z@skip\baselineskip\z@skip
24710   \ifhmode \@preamerr\z@ \@@par\fi
24711   \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
24712   \@preamble}
24713 \def\array{\let\@acol\@arrayacol \let\@classz\@arrayclassz
24714   \let\@classiv\@arrayclassiv
24715   \let\\\@arraycr\let\@halignto\empty\@RTLtabfalse\@tabarray}
24716 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
24717   \ifnum \@lastchclass=3 5 \else
24718   \z@ \if #1c\@chnum \z@ \else
24719     \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
24720     \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
24721     \@chclass \if #1|\@ne \else
24722     \if #1@\tw@ \else
24723     \if #1p3 \else \z@ \@preamerr 0\fi
24724   \fi \fi \fi \fi \fi \fi
24725 \fi}

```




```

24726 \def\bm@l{\if@RTL\hss\unhbox\@tempboxa\else\unhbox\@tempboxa\hss\fi}
24727 \def\bm@r{\if@RTL\unhbox\@tempboxa\hss\else\hss\unhbox\@tempboxa\fi}
24728 \def\bm@t{\unhbox\@tempboxa\hss}
24729 \def\bm@b{\hss\unhbox\@tempboxa}
24730 \def\@dottedtocline#1#2#3#4#5{%
24731   \ifnum #1>\c@tocdepth \else
24732     \vskip \z@ \@plus.2\p@
24733     {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocma
24734     \parindent #2\relax\@afterindenttrue
24735     \interlinepenalty\@M
24736     \leavevmode
24737     \@tempdima #3\relax
24738     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24739     {#4}\nobreak
24740     \leaders\hbox{$\m@th
24741       \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
24742       mu$}\hfill
24743     \nobreak
24744     \hb@xt@\@pnumwidth{{\hfil\normalfont \normalcolor #5}}%
24745     \par}%
24746 \fi}
24747
24748 \newcount\bidicolumn@check@number
24749
24750 \def\bidicolumn@status#1{\gdef\bidicurrent@column@status{#1}}
24751
24752 \def\bidicolumn@set@column@status#1#2{%
24753   \global\expandafter\let\csname #1\endcsname\bidicurrent@column@status}
24754
24755 \if@twocolumn
24756 \newcommand\DetectColumn[3][1]{%
24757   \ifx\bidicolumn@status\write\relax
24758     \PackageError{bidi}%
24759       {Option 'DetectColumn' not selected}%
24760       {\string\DetectColumn\space
24761        requires the use of the 'DetectColumn'
24762        option on the package}%
24763 \fi
24764 \global\advance\bidicolumn@check@number\@ne
24765 \edef\bidicolumn@type{\expandafter\ifx
24766   \csname bidi@column-\the\bidicolumn@check@number\endcsname\relax
24767   0\else
24768   \csname bidi@column-\the\bidicolumn@check@number\endcsname
24769   \fi}%
24770 \ifcase \bidicolumn@type\relax
24771   \ifcase #1\or #2\or #3\fi % 0 not known use first column as default
24772 \or
24773   #2% % 1 First column
24774 \or
24775   #3% % 2 Second (Last column)
24776 \else
24777   \ERROR
24778 \fi
24779 \edef\next{\write\@auxout

```



```

24780      {\string\bidiset@column@status{\bidicolumn-\the\bidicolumn@check@number}}%
24781      {\bidicolumn@type}}}%
24782  \next
24783 }
24784
24785 \AtEndDocument{\def\bidiset@column@status#1#2{%
24786     \ifnum #2=\bidicurrent@column@status\else
24787     \@tempwattrue
24788     \fi}%
24789 }
24790 \fi
24791
24792 \def\RTL@outputdblcol{%
24793     \if@firstcolumn
24794     \global\@firstcolumnfalse
24795     \global\setbox\@leftcolumn\copy\@outputbox
24796     \splitmaxdepth\maxdimen
24797     \vbadness\maxdimen
24798     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
24799     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
24800     \toks@\expandafter{\topmark}%
24801     \xdef\@firstcoltopmark{\the\toks@}%
24802     \toks@\expandafter{\splitfirstmark}%
24803     \xdef\@firstcolfirstmark{\the\toks@}%
24804     \ifx\@firstcolfirstmark\@empty
24805     \global\let\@setmarks\relax
24806     \else
24807     \gdef\@setmarks{%
24808         \let\firstmark\@firstcolfirstmark
24809         \let\topmark\@firstcoltopmark}%
24810     \fi
24811     \else
24812     \global\@firstcolumntrue
24813     \setbox\@outputbox\vbox{%
24814         \hb@xt@\textwidth{%
24815             \hskip \columnwidth
24816             \hfil
24817             {\normalcolor\vrule \@width\columnseprule}%
24818             \hfil
24819             \hb@xt@\columnwidth{%
24820                 \bidicurrent@column@status@write%
24821                 \box\@leftcolumn \hss}%
24822             \hskip -\textwidth
24823             \hb@xt@\columnwidth{%
24824                 \bidilastcolumn@status@write%
24825                 \box\@outputbox \hss}%
24826             \hskip \columnsep
24827             \hskip \columnwidth }}%
24828     \@combinedblfloats
24829     \@setmarks
24830     \@outputpage
24831     \begingroup
24832     \@dblfloatplacement
24833     \@startdblcolumn

```



```

24834 \whilesw@if@fcolmade \fi{\@outputpage
24835 \@startdblcolumn}%
24836 \endgroup
24837 \fi}%
24838
24839 \def\LTR@outputdblcol{%
24840 \if@firstcolumn
24841 \global\@firstcolumnfalse
24842 \global\setbox\@leftcolumn\copy\@outputbox
24843 \splitmaxdepth\maxdimen
24844 \vbadness\maxdimen
24845 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
24846 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
24847 \toks@\expandafter{\topmark}%
24848 \xdef\@firstcoltopmark{\the\toks@}%
24849 \toks@\expandafter{\splitfirstmark}%
24850 \xdef\@firstcolfirstmark{\the\toks@}%
24851 \ifx\@firstcolfirstmark\@empty
24852 \global\let\@setmarks\relax
24853 \else
24854 \gdef\@setmarks{%
24855 \let\firstmark\@firstcolfirstmark
24856 \let\topmark\@firstcoltopmark}%
24857 \fi
24858 \else
24859 \global\@firstcolumntrue
24860 \setbox\@outputbox\vbox{%
24861 \hb@xt@\textwidth{%
24862 \hb@xt@\columnwidth{%
24863 \bidi@firstcolumn@status@write%
24864 \box\@leftcolumn \hss}%
24865 \hfil
24866 {\normalcolor\vrule \@width\columnseprule}%
24867 \hfil
24868 \hb@xt@\columnwidth{%
24869 \bidi@lastcolumn@status@write%
24870 \box\@outputbox \hss}}}%
24871 \@combinedblfloats
24872 \@setmarks
24873 \@outputpage
24874 \begingroup
24875 \@dblfloatplacement
24876 \@startdblcolumn
24877 \whilesw@if@fcolmade \fi{\@outputpage
24878 \@startdblcolumn}%
24879 \endgroup
24880 \fi}%
24881
24882
24883 \renewcommand{\@outputdblcol}{\ifRTLmain\RTL@outputdblcol\else\LTR@outputdblcol\fi}
24884 \newcommand{\RTLdblcol}{\renewcommand{\@outputdblcol}{\RTL@outputdblcol}}
24885 \newcommand{\LTRdblcol}{\renewcommand{\@outputdblcol}{\LTR@outputdblcol}}
24886
24887 \bidi@appto\@outputbox@appendfootnotes{%

```



```

24888 \ifvoid\@bidi@copyins@
24889 \else
24890   \@outputbox@append{%
24891     \vskip \skip\@bidi@copyins@
24892     \color@begingroup
24893     \normalcolor
24894     \unvbox \@bidi@copyins@
24895     \color@endgroup
24896   }%
24897 \fi
24898 }
24899
24900 \def\LTRmarginpar{%
24901   \ifhmode
24902     \@bsphack
24903     \@floatpenalty -\@Mii
24904   \else
24905     \@floatpenalty-\@Miii
24906   \fi
24907   \ifinner
24908     \@parmoderr
24909     \@floatpenalty\z@
24910   \else
24911     \@next\@currbox\@freelist{}\{}%
24912     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
24913     {\@floatpenalty\z@
24914       \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}}%
24915   \fi
24916   \@ifnextchar [\@LTRxmpar\@LTRympar}
24917 \long\def\@LTRxmpar[#1]#2{%
24918   \@LTRsavemarbox\@marbox{#1}%
24919   \@LTRsavemarbox\@currbox{#2}%
24920   \@xympar}
24921 \long\def\@LTRympar#1{%
24922   \@LTRsavemarbox\@marbox{#1}%
24923   \global\setbox\@currbox\copy\@marbox
24924   \@xympar}
24925 \long\def \@LTRsavemarbox #1#2{%
24926   \global\setbox #1%
24927     \color@vbox
24928     \vtop{%
24929       \hsize\marginparwidth
24930       \@parboxrestore
24931       \@LTRmarginparreset
24932       #2%
24933       \@minipagefalse
24934       \outer@nobreak
24935     }%
24936   \color@endbox
24937 }
24938 \def \@LTRmarginparreset {%
24939   \reset@font
24940   \normalsize
24941   \@minipagetrue

```



```

24942         \everypar{\@minipagefalse\everypar{}\beginL}%
24943 }
24944 \def\RTLmarginpar{%
24945   \ifhmode
24946     \@bsphack
24947     \@floatpenalty -\@Mii
24948   \else
24949     \@floatpenalty-\@Miii
24950   \fi
24951   \ifinner
24952     \@parmoderr
24953     \@floatpenalty\z@
24954   \else
24955     \@next\@currbox\@freelist{}\{}%
24956     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
24957     {\@floatpenalty\z@
24958       \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}}%
24959   \fi
24960   \ifnextchar [\@RTLxmpar\@RTLympar}
24961 \long\def\@RTLxmpar[#1]#2{%
24962   \@RTLSavemarbox\@marbox{#1}%
24963   \@RTLSavemarbox\@currbox{#2}%
24964   \@xympar}
24965 \long\def\@RTLympar#1{%
24966   \@RTLSavemarbox\@marbox{#1}%
24967   \global\setbox\@currbox\copy\@marbox
24968   \@xympar}
24969 \long\def \@RTLSavemarbox #1#2{%
24970   \global\setbox #1%
24971     \color@vbox
24972     \vtop{%
24973       \hsize\marginparwidth
24974       \@parboxrestore
24975       \@RTLmarginparreset
24976       #2%
24977       \@minipagefalse
24978       \outer@nobreak
24979     }%
24980   \color@endbox
24981 }
24982 \def \@RTLmarginparreset {%
24983   \reset@font
24984   \normalsize
24985   \@minipagetrue
24986   \everypar{\@minipagefalse\everypar{}\beginR}%
24987 }
24988 \def\@addmarginpar{\@next\@marbox\@currlist{\@cons\@freelist\@marbox
24989   \@cons\@freelist\@currbox}\@latexbug\@tempcnta\@ne
24990   \if@twocolumn
24991     \if@firstcolumn \@tempcnta\m@ne \fi
24992   \else
24993     \if@mparswitch
24994       \ifodd\c@page \else\@tempcnta\m@ne \fi
24995   \fi

```



```

24996     \if@reversemargin \@tempcnta -\@tempcnta \fi
24997     \fi
24998     \ifnum\@tempcnta <\z@   \global\setbox\@marbox\box\@currbox \fi
24999     \@tempdima\@mparbottom
25000     \advance\@tempdima -\@pageht
25001     \advance\@tempdima\ht\@marbox
25002     \ifdim\@tempdima >\z@
25003         \@latex@warning@no@line {Marginpar on page \thepage\space moved}%
25004     \else
25005         \@tempdima\z@
25006     \fi
25007     \global\@mparbottom\@pageht
25008     \global\advance\@mparbottom\@tempdima
25009     \global\advance\@mparbottom\dp\@marbox
25010     \global\advance\@mparbottom\marginparpush
25011     \advance\@tempdima -\ht\@marbox
25012     \global\setbox \@marbox
25013             \vbox {\vskip \@tempdima
25014                     \box \@marbox}%
25015     \global \ht\@marbox \z@
25016     \global \dp\@marbox \z@
25017     \kern -\@pagedp
25018     \nointerlineskip
25019     \hb@xt@\columnwidth
25020     {\if@RTL\if@LTRmarginpar\beginL\else\beginR\fi\else\if@RTLmarginpar\beginR\else\beginL
25021       \hskip\columnwidth \hskip\marginparsep
25022     \else
25023       \hskip -\marginparsep \hskip -\marginparwidth
25024     \fi
25025     \box\@marbox \hss\if@RTL\if@LTRmarginpar\endL\else\endR\fi\else\if@RTLmarginpar\endR
25026     \nointerlineskip
25027     \hbox{\vrule \height\z@ \width\z@ \depth\@pagedp}}
25028 \long\def\@ympar#1{%
25029   \@savemarbox\@marbox{\if@RTL\if@LTRmarginpar\@RTLfalse\else\@RTLtrue\fi\else\if@RTLmarginp
25030   \global\setbox\@currbox\copy\@marbox
25031   \@xympar}
25032   \def\setRTLmarginpar{\@RTLmarginpartrue\@LTRmarginparfalse}
25033   \def\setLTRmarginpar{\@LTRmarginpartrue\@RTLmarginparfalse}
25034   \def\setdefaultmarginpar{\@RTLmarginparfalse\@LTRmarginparfalse}
25035   \def\@stopline{\unskip\@stopfield\if@rjfield \global\@rjfieldfalse
25036     \@tempdima\@totalleftmargin \advance\@tempdima\linewidth
25037   \hbox to\@tempdima{\if@RTL\beginR\fi\@itemfudge\hskip\dimen\@curtabmar
25038     \box\@curline\hfil\box\@curfield\if@RTL\endR\fi}\else\@addfield
25039     \hbox to\linewidth{\if@RTL\beginR\fi\@itemfudge
25040     \hskip\dimen\@curtabmar\box\@curline\hfil\if@RTL\endR\fi}}%
25041   \fi}
25042
25043   \newcommand*{\bidi@font@outputpage}{%}
25044
25045   \def\@outputpage{%
25046     \begingroup           % the \endgroup is put in by \aftergroup
25047     \let \protect \noexpand
25048     \@resetactivechars
25049     \global\let\@if@newlist\if@newlist

```



```

25050 \global\@newlistfalse
25051 \@parboxrestore
25052 \global\let\@bidi@BeforeOutputPageShipOut\@firstofone
25053 \bidi@beforeoutputpageshipouthook
25054 \shipout \vbox{%
25055   \set@typeset@protect
25056   \aftergroup \endgroup
25057   \aftergroup \set@typeset@protect
25058                                     % correct? or just restore by ending
25059                                     % the group?
25060 \if@specialpage
25061   \global\@specialpagefalse\@nameuse{ps@\@specialstyle}%
25062 \fi
25063 \if@twoside
25064   \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot
25065   \if@RTLmain
25066     \let\@themargin\evensidemargin
25067   \else
25068     \let\@themargin\oddsidemargin
25069   \fi
25070 \else \let\@thehead\@evenhead \let\@thefoot\@evenfoot
25071   \if@RTLmain
25072     \let\@themargin\oddsidemargin
25073   \else
25074     \let\@themargin\evensidemargin
25075   \fi
25076 \fi
25077 \ifx\@thehead\@empty \let\@thehead\hfil \fi
25078 \ifx\@thefoot\@empty \let\@thefoot\hfil \fi
25079 \else %% not @twoside
25080 \ifx\@oddhead\@empty \let\@thehead\hfil \fi
25081 \ifx\@oddfoot\@empty \let\@thefoot\hfil \fi
25082 \fi
25083 \reset@font
25084 \normalsize
25085 \bidi@font@@@outputpage
25086 \normalsfcodes
25087 \let\label\@gobble
25088 \let\index\@gobble
25089 \let\glossary\@gobble
25090 \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
25091 \@begindvi
25092 \vskip \topmargin
25093 \moveright\@themargin \vbox {%
25094   \global\let\@bidi@BeforeHeader\@firstofone
25095   \bidi@beforeheaderhook
25096   \setbox\@tempboxa \vbox to\headheight{%
25097     \vfil
25098     \color@hbox
25099     \normalcolor
25100     \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thehead\if
25101     \color@endbox
25102     }%
25103     \dp\@tempboxa \z@

```



```

25104 \box\@tempboxa
25105 \vskip \headsep
25106 \global\let\bid@BeforeOutputBoxOutputPage\@firstofone
25107 \bid@beforeoutputboxoutputpagehook
25108 \box\@outputbox
25109 \global\let\bid@AfterOutputBoxOutputPage\@firstofone
25110 \bid@afteroutputboxoutputpagehook
25111 \global\let\bid@BeforeFooter\@firstofone
25112 \bid@beforefooterhook
25113 \baselineskip \footskip
25114 \color@hbox
25115 \normalcolor
25116 \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thefoot\if@RTL
25117 \color@endbox
25118 \global\let\bid@AfterFooter\@firstofone
25119 \bid@afterfooterhook
25120 }%
25121 }%
25122 \global\let\bid@AfterOutputPageShipOut\@firstofone
25123 \bid@afteroutputpageshipouthook
25124 \global\let\if@newlist\@if@newlist
25125 \global \colht \textheight
25126 \stepcounter{page}%
25127 \let\firstmark\botmark
25128 \global\let\bid@AtEndOutputPage\@firstofone
25129 \bid@atendoutputpagehook
25130 }
25131 \long\def\@makecaption#1#2{%
25132 \vskip\abovecaptionskip
25133 \sbox\@tempboxa{#1: #2}%
25134 \ifdim \wd\@tempboxa >\hsize
25135 \if@RTL\beginR\fi#1: #2\if@RTL\endR\fi\par
25136 \else
25137 \global \minipagefalse
25138 \hb@xt@\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}%
25139 \fi
25140 \vskip\belowcaptionskip}
25141 \let\bid@saved@eqno=\eqno
25142 \let\bid@saved@leqno=\leqno
25143 \def\eqno{\ifnum\predisplaydirection<z@ \bid@saved@leqno \else \bid@saved@eqno \fi}
25144 \def\leqno{\ifnum\predisplaydirection<z@ \bid@saved@eqno \else \bid@saved@leqno \fi}
25145 \ApplyPatchIfPackageLoadedF{amsmath}{
25146 \def\@eqnnum{\normalfont \normalcolor \if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}
25147 }
25148 \input{footnote-xetex-bidi.def}
25149 \if@twocolumn
25150 \let\autofooterule\relax
25151 \let\leftfootnoterule\relax
25152 \let\rightfootnoterule\relax
25153 \textwidthfootnoterule
25154 \fi
25155 \if@bidi@csundef{\idxitem}{\fi}%
25156 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi40\p}%
25157 }

```




```

25158
25159 \ApplyPatchToPackageIfPackageLoadedF{float}{floatrow}
25160
25161 \ApplyPatchToFilesIfPackageLoadedF{amsmath}{%
25162   fleqn, %
25163   leqno%
25164 }[clo]
25165
25166 \ApplyPatchToClasses{%
25167   amsart, %
25168   amsbook, %
25169   article, %
25170   artikel1, %
25171   artikel2, %
25172   artikel3, %
25173   beamer, %
25174   boek, %
25175   boek3, %
25176   book, %
25177   bookest, %
25178   combine, %
25179   extbook, %
25180   extletter, %
25181   extarticle, %
25182   extreport, %
25183   imspoc, %
25184   letter, %
25185   memoir, %
25186   rapport1, %
25187   rapport3, %
25188   refrep, %
25189   report, %
25190   scrartcl, %
25191   scrbook, %
25192   scrreprt %
25193 }
25194
25195 \ApplyPatchCodeBeforePackage{hyperref}{%
25196   \let\HyOrg@maketitle\maketitle
25197 }
25198
25199 \ApplyPatchToPackages{%
25200   algorithm2e, %
25201   amsmath, %
25202   amstext, %
25203   amsthm, %
25204   array, %
25205   arydshln, %
25206   beamerbaseauxtemplates, %
25207   beamerbaseboxes, %
25208   beamerbasecolor, %
25209   beamerbasecompatibility, %
25210   beamerbaseframecomponents, %
25211   beamerbaseframesize, %

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25212 beamerbaselocalstructure, %
25213 beamerbasemisc, %
25214 beamerbasenavigation, %
25215 beamerbaseoverlay, %
25216 beamerinnerthemecircles, %
25217 beamerinnerthemedefault, %
25218 beamerinnerthemefocus, %
25219 beamerinnerthemeinmargin, %
25220 beamerinnerthememetropolis, %
25221 beamerinnerthemerectangles, %
25222 beamerinnerthemerrounded, %
25223 beamerouterthemedefault, %
25224 beamerouterthemefocus, %
25225 beamerouterthemeinfoclines, %
25226 beamerouterthememetropolis, %
25227 beamerouterthememiniframes, %
25228 beamerouterthemesidebar, %
25229 beamerouterthemesplit, %
25230 beamerouterthemeshadow, %
25231 beamerouterthesmoothbars, %
25232 beamerouterthesmoothtree, %
25233 beamerouterthemetree, %
25234 beamerthemeHannover, %
25235 beamerthemeSingapore, %
25236 breqn, %
25237 cal, %
25238 caption, %
25239 caption3, %
25240 color, %
25241 colortbl, %
25242 crop, %
25243 cuted, %
25244 cutwin, %
25245 dblfnote, %
25246 diagbox, %
25247 draftwatermark, %
25248 eso-pic, %
25249 empheq, %
25250 fancybox, %
25251 fancyhdr, %
25252 fix2col, %
25253 float, %
25254 floatrow, %
25255 flowfram, %
25256 fnpct, %
25257 footnotebackref, %
25258 framed, %
25259 ftnright, %
25260 geometry, %
25261 graphicx, %
25262 hvfloat, %
25263 hyperref, %
25264 lettrine, %
25265 lineno, %

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```

25266 listings, %
25267 longtable, %
25268 lscape, %
25269 mathtools, %
25270 mdframed, %
25271 media9, %
25272 midfloat, %
25273 minitoc, %
25274 multicol, %
25275 adjmulticol, %
25276 multienum, %
25277 natbib, %
25278 newfloat, %
25279 nicematrix, %
25280 ntheorem, %
25281 ntheorem-hyper, %
25282 overpic, %
25283 pdfbase, %
25284 pdfscape, %
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25286 picinpar, %
25287 quotchap, %
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25289 rotating, %
25290 sidecap, %
25291 soul, %
25292 stabular, %
25293 subfigure, %
25294 tabs, %
25295 tabularx, %
25296 tabulary, %
25297 tcolorbox, %
25298 thmbox, %
25299 titlesec, %
25300 titletoc, %
25301 tocbasic, %
25302 tocbibind, %
25303 tocloft, %
25304 tocstyle, %
25305 todonotes, %
25306 wrapfig, %
25307 xcolor, %
25308 xltextra %
25309 }
25310
25311 \ApplyPatchToFiles{%
25312   pgfcorescopes.code, %
25313   pstricks %
25314 }[tex]
25315
25316 \ApplyPatchToFiles{%
25317   hgeneric-testphase, %
25318   tc-xetex %
25319 }

```



165 File `xltextra-xetex-bidi.def`

```

25321 \ProvidesFile{xltextra-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for xltextra package f
25322 \let\@XeTeX\XeTeX
25323 \def\XeTeX{\@ensure@LTR{\@XeTeX}}
25324 \let\@XeLaTeX\XeLaTeX
25325 \def\XeLaTeX{\@ensure@LTR{\@XeLaTeX}}

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