The bidi Package

Bidirectional typesetting in plain TEX and LATEX, using XeTEX engine

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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 do not send any direct email to me; I will not answer any direct email. Instead please use the issue tracker:

https://github.com/vafa/bidi/issues

In doing so, please always explain your issue well enough, always include a minimal working example showing the issue, and always choose the appropriate label for your query (i.e. if you are reporting any bugs, choose 'bug' label).

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Introduction

bidi provides a convenient interface for typesetting bidirectional texts in plain TEX and LATEX, using the XeTEX engine.

bidi Info On The Terminal and In The Log File

If you use bidi package to write any input TEX document, and then run `xelatex` on your document, bidi writes some information about itself to the terminal and to the log file. The information is something like:

```
**************************************************
*
* bidi package (Bidirectional typesetting in
* plain TeX and LaTeX, using XeTeX engine)
*
* Description: A convenient interface for
* typesetting bidirectional texts in plain TeX
* and LaTeX. The package includes adaptations
* for use with many other commonly-used packages.
*
* Copyright  20092013 Vafa Khalighi
*
* 2014/02/05, v14.6
*
* License: LaTeX Project Public License, version
* 1.3c or higher (your choice)
*
* Location on CTAN: /macros/xetex/latex/bidi
*
* Issue tracker: https://github.com/vafa/bidi/issues
*
* Support: persian-tex@tug.org
**************************************************
```

Part I
LATEX Manual

1 Basics

1.1 Loading The Package

You can load the package in the ordinary way;

```
\usepackage [Options] {bidi}
```

Where `options` of the package are explained later in subsection 1.5.

When loading the package, it is important to know that:

❶ bidi should be the last package that you load, because otherwise you are certainly going to overwrite bidi's definitions and consequently, you will not get the expected output.

❷ In fact, bidi makes sure that some specific packages are loaded before bidi; these are those packages that bidi modifies them for bidirectional typesetting.

If you load bidi before any of these packages, then you will get an error saying that you should load bidi as your last package.

For instance, consider the following minimal example:

```
1 \documentclass{minimal}
2 \usepackage{bidi}
3 \usepackage{graphicx}
4 \begin{document}
5 This is just a test.
6 \end{document}
```

Where graphicx is loaded after bidi. If you run `xelatex` on this document, you will get an error which looks like this:

```
! Package bidi Error: Oops! you have loaded package graphicx after
bidi package. Please load package graphicx before bidi package, and
 then try to run xelatex on your document again.

See the bidi package documentation for explanation.
Type  H <return>  for immediate help.
 ...

l.4 \begin{document}

?
```

1.2 bidi's Symbol

As you may know lion symbolizes TEX but lion does not symbolizes bidi. **Simorgh**[1] (shown on the first page of this documentation) symbolizes bidi.

[1] **Simorgh** is an Iranian benevolent, mythical flying creature which has been shown on the titlepage of this documentation. For more details see http://en.wikipedia.org/wiki/Simurgh

1.3 Commands for Version number, and Date of The Package

\bidiversion \bididate

☞ `\bidiversion` gives the current version of the package.

☞ `\bididate` gives the current date of the package.

```
1 \documentclass{article}
2 \usepackage{bidi}
3 \begin{document}
4 This is typeset by \textsf{bidi} package, \bidiversion, \bididate.
5 \end{document}
```

1.4 Turning TeX--XeT features on and off

The bidirectional typesetting in XeTEX is based on TeX--XeT algorithm and bidi package automatically turns the feature on for typesetting bidirectional texts. As the internal data structures built by TeX--XeT differ from those built by TEX, the typesetting of a document by TeX--XeT may therefore differ from that performed by TEX. So you may notice that some packages behave differently when TeX--XeT feature is on and you may want to turn the feature off for a part of the text so that you get the default behaviour of original TEX. Two commands are provided for this purpose:

\TeXXeTOn \TeXXeTOff

☞ `\TeXXeTOn` turns TeX--XeT feature on, which is active by default when bidi package is loaded.

☞ `\TeXXeTOff` turns TeX--XeT feature off.

1.5 Options of The Package

There are three options, namely `RTLdocument` and `rldocument`, which are essentialy equivalent. If you pass any of these options to the package, you will be typesetting a document containing mainly RTL texts with some LTR texts. These options activate `\setRTL` (explained in subsection 5.4), `\RTLdblcol` (explained in subsection 1.10) and `\autofootnoterule` (explained in subsubsection 1.9.1).

It is clear that if you do not pass any of these options to the package, you will be typesetting a document containing mainly LTR texts with some RTL texts.

There is also `extrafootnotefeatures` option that allows footnotes to be typeset in different formats:

```
\normalfootnotes
\twocolumnfootnotes  \threecolumnfootnotes  \fourcolumnfootnotes
\fivecolumnfootnotes  \sixcolumnfootnotes  \sevencolumnfootnotes
\eightcolumnfootnotes  \ninecolumnfootnotes  \tencolumnfootnotes
\RTLcolumnfootnotes  \LTRcolumnfootnotes
\paragraphfootnotes
\setLTRparagraphfootnotes  \setRTLparagraphfootnotes
```

- ☞ `\normalfootnotes` typesets footnotes in Standard LaTeX format.
- ☞ `\twocolumnfootnotes` to `\tencolumnfootnotes`, typeset footnotes in two-columns to ten-columns, respectively.
- ☞ `\RTLcolumnfootnotes` typesets footnotes columns RTL (first column on the RHS and each next column to the left of the previous column) and `\LTRcolumnfootnotes` typesets footnotes columns LTR (first column on the LHS and each next column to the right of the previous column). `\LTRcolumnfootnotes` is active by default.
- ☞ `\paragraphfootnotes` typesets footnotes in paragraph format.
- ☞ `\setLTRparagraphfootnotes` makes footnotes run from left to right. This comand is active by default.
- ☞ `\setRTLparagraphfootnotes` makes footnotes run from right to left.

Please note that when using `extrafootnotefeatures` option, the footnote rule will be as wide as the text width and `\autofootnoterule`, `\rightfootnoterule`, `\leftfootnoterule`, and `\textwidthfootnoterule` commands have no effects.

Please also note that if you redefine `\baselinestretch` command or change the value of `\baselineskip` primitive before `\paragraphfootnotes` command, then you may get Arithmetic Overflow error. You should change these after using `\paragraphfootnotes` command.

1.6 Paragraph Switching Commands

```
\setLTR  \setLR  \unsetRL  \unsetRTL
\setRTL  \setRL  \unsetLTR
```

- ☞ With any of the commands in the first row, you can typeset LTR paragraphs.
- ☞ With any of the commands in the second row, you can typeset RTL paragraphs.

```
1 \documentclass{article}
2 \usepackage{bidi}
3 \begin{document}
```

```
\setRTL%
Anyone who reads Old and Middle English literary texts will be
 familiar with the mid-brown volumes of the EETS, with the symbol
 of Alfred's jewel embossed on the front cover.

\setLTR% Notice the blank line before \setLTR
Anyone who reads Old and Middle English literary texts will be
 familiar with the mid-brown volumes of the EETS, with the symbol
 of Alfred's jewel embossed on the front cover.
\end{document}
```

1.7 Pargraph Switching Environments

\begin{LTR}	⟨*text*⟩	\end{LTR}
\begin{RTL}	⟨*text*⟩	\end{RTL}

☞ With `LTR` environment, you can typeset LTR paragraphs.

☞ With `RTL` environment, you can typeset RTL paragraphs.

```
\documentclass{article}
\usepackage{bidi}
\begin{document}
\begin{RTL}
Anyone who reads Old and Middle English literary texts will be familiar
 with the mid-brown volumes of the EETS, with the symbol
 of Alfred's jewel embossed on the front cover.
\begin{LTR}
Anyone who reads Old and Middle English literary texts will be familiar
 with the mid-brown volumes of the EETS, with the symbol
 of Alfred's jewel embossed on the front cover.
\end{LTR}
And we are still typesetting RTL.
\end{RTL}
\end{document}
```

1.8 Typesetting Short LTR and RTL Texts

\LRE{⟨*text*⟩}	\LR{⟨*text*⟩}
\RLE{⟨*text*⟩}	\RL{⟨*text*⟩}

☞ With any of the commands in the first row, you can typeset short LTR text inside RTL paragraphs.

☞ With any of the commands in the second row, you can typeset short RTL text inside LTR paragraphs.

```
\begin{document}
\begin{RTL}
Anyone who reads Old and Middle English \LRE{Short LTR text} literary
texts will be familiar
 with the mid-brown volumes of the EETS, with the symbol
 of Alfred's jewel embossed on the front cover.
\begin{LTR}
Anyone who reads Old and Middle English \RLE{Short RTL text} literary
texts will be familiar
 with the mid-brown volumes of the EETS, with the symbol
 of Alfred's jewel embossed on the front cover.
\end{LTR}
\end{RTL}
\end{document}
```

1.9 Footnotes

`\footnote` `[num]` {⟨*text*⟩} `\LTRfootnote` `[num]` {⟨*text*⟩} `\RTLfootnote` `[num]` {⟨*text*⟩}
`\setfootnoteRL` `\setfootnoteLR` `\unsetfootnoteRL`
`\thanks`{⟨*text*⟩} `\LTRthanks`{⟨*text*⟩} `\RTLthanks`{⟨*text*⟩}

- ☞ `\footnote` in RTL mode produces an RTL footnote while in LTR mode it produces an LTR footnote.
- ☞ `\LTRfootnote` will always produce an LTR footnote, independent on the current mode.
- ☞ `\RTLfootnote` will always produce an RTL footnote, independent on the current mode.
- ☞ Specifying a `\setfootnoteRL` command anywhere will make `\footnote` produce an RTL footnote.
- ☞ Specifying either a `\setfootnoteLR` or an `\unsetfootnoteRL` command anywhere will make `\footnote` produce an LTR footnote.
- ☞ `\thanks` (to be used only inside `\author` or `\title` argument) in RTL mode produces an RTL footnote while in LTR mode it produces an LTR footnote.
- ☞ `\LTRthanks` (to be used only inside `\author` or `\title` argument) will always produce an LTR footnote, independent on the current mode.
- ☞ `\RTLthanks` (to be used only inside `\author` or `\title` argument) will always produce an RTL footnote, independent on the current mode.

```
\footnotetext [num] {⟨text⟩}  \LTRfootnotetext [num] {⟨text⟩}
\RTLfootnotetext [num] {⟨text⟩}
```

- ☞ `\footnotetext` used in conjunction with `\footnotemark`, in RTL mode produces an RTL footnote while in LTR mode it produces an LTR footnote.
- ☞ `\LTRfootnotetext` used in conjunction with `\footnotemark`, will always produce an LTR footnote, independent on the current mode.
- ☞ `\RTLfootnotetext` used in conjunction with `\footnotemark`, will always produce an RTL footnote, independent on the current mode.

1.9.1 Footnote Rule

The behavior of footnote rules can also be controlled.

```
\autofootnoterule  \rightfootnoterule  \leftfootnoterule
\LRfootnoterule  \textwidthfootnoterule  \SplitFootnoteRule
\debugfootnotedirection
```

- ☞ `\autofootnoterule` will draw the footnote rule right or left aligned based on the direction of the first footnote following the rule (i.e., put in the current page).
- ☞ `\rightfootnoterule` will put footnote rule on the right-hand side.
- ☞ `\leftfootnoterule` or `\LRfootnoterule` will put footnote rule on the left-hand side.
- ☞ `\textwidthfootnoterule` will draw the footnote rule with a width equal to `\textwidth`.
- ☞ `\SplitFootnoteRule` puts a full-width rule above the split-off part of a split footnote.
- ☞ `\debugfootnotedirection` writes the direction of the first footnote on each page, in the log file.

1.10 Two Column Typesetting

```
\RTLdblcol  \LTRdblcol
```

If you pass the `twocolumn` option to the class file and if the main direction of the document is RTL, then you get RTL two column and if the main direction of the document is LTR, then you get LTR two column. In addition, `\RTLdblcol` allows you to have RTL two column typesetting and `\LTRdblcol` allows you to have LTR two column typesetting as the options of the class file.

Also please note that in `twocolumn` documents, the width of the `\footnoterule` will be equal to `\columnwidth` no matter which footnote-rule commands you use; indeed, in `twocolumn` documents only `\textwidthfootnoterule` is active and other footnote-rule commands will not be effective.

1.11 RTL cases

`\RTLcases` command was previously known as `\rcases` command but since there was a clash with mathtools package (mathtools defines rcases environment), we had to rename `\rcases` command to `\RTLcases` command.

`\RTLcases{\text{⟨brach1⟩}\cr\text{⟨brach2⟩}\cr \text{⟨brach3⟩}...}`
`\text{⟨main⟩}`

`\RTLcases` is defined in bidi for typesetting RTL cases. `\text` is defined in amsmath package, so this means that you need to load amsmath package too.

```
\documentclass{article}
\usepackage{amsmath}
\usepackage{bidi}
\begin{document}
\setRTL
\[\RTLcases{\text{men}\cr\text{women}}
\text{Humans Beings}
\]
\end{document}
```

1.12 Typesetting Logos

`\XeTeX` `\XeLaTeX`

bidi defines XeTEX and XeLATEX logos and in addition, it makes sure that logos, TEX, LATEX, LATEX 2_ε are typeset LTR.

1.13 Separation Mark

`\SepMark{⟨mark⟩}` `\@SepMark`

Generally in Standard LATEX, dot is used for separation between section numbers, equation numbers any anything else which needs to be seperated. You can use `\SepMark` to use any other mark as the seperation mark instead a dot.

```
\documentclass{article}
\usepackage{bidi}
\SepMark{-}
\begin{document}
\section{First}
\subsection{Second}
\subsubsection{Third}
\end{document}
```

If you decide to change the numbering of chapters, sections, subsections, equations, figures and ..., you should either load amsmath package and use `\numberwithin` macro to do this or do the ordinary way, but instead dot write `\@SepMark`. Using dot instead `\@SepMark` will certainly make trouble.

```
\documentclass{article}
\usepackage{bidi}
\SepMark{-}
\makeatletter
\renewcommand\theequation{\thesection\@SepMark\@arabic\c@equation}
\makeatother
\begin{document}
\section{First}
\begin{equation}
x^2+y^2=z^2
\end{equation}
\end{document}
```

1.14 `\raggedright`, `\raggedleft` commands, `flushleft` and `flushright` Environments

`\raggedright` command and `flushleft` environment put the text on the left hand side and `\raggedleft` command and `flushright` environment put the text on the right hand side, independent on the current mode.

1.15 Primitive-like commands

`\hboxR` `\hboxL` `\vboxR` `\vboxL`

- ☞ The syntax of `\hboxR` is exatly the same as the syntax of `\hbox`, but its contents is always typeset RTL.
- ☞ The syntax of `\hboxL` is exatly the same as the syntax of `\hbox`, but its contents is always typeset LTR.
- ☞ The syntax of `\vboxR` is exatly the same as the syntax of `\vbox`, but its contents is always typeset RTL.
- ☞ The syntax of `\vboxL` is exatly the same as the syntax of `\vbox`, but its contents is always typeset LTR.

1.16 Something To know about `\hbox`

If you enable RTL typesetting and typeset an horizontal box at the beginning of the document:

```
\documentclass{article}
\usepackage{bidi}
```

```
\setRTL
\begin{document}
\hbox{This is a Test}
\end{document}
```

You see that even you have used `\setRTL`, the horizontal box appears LTR (It appears on the left hand side and its content is typeset left to right). This is because when TEX starts, it is in the vertical mode so if you need to have that `\hbox` appear RTL, then write `\leavevmode` before `\hbox`:

```
\documentclass{article}
\usepackage{bidi}
\setRTL
\begin{document}
\leavevmode\hbox{This is a Test}
\end{document}
```

1.17 `\bidillap` and `\bidirlap` Commands

In RTL mode, `\llap` and `\rlap` do oposite things. Since these two macros are used in a lot of classes and packages, instead modifying these two macros, we have created two new macros `\bidillap` and `\bidirlap` which give logical results.

1.18 LTRitems and RTLitems Environments

If you typeset an itemize, or an enumerate, or a description environment where all `\item`s are one directional, you have no problem at all as shown below:

```
\documentclass{article}
\begin{document}
Anyone who reads Old and Middle English literary texts will be familiar
with the mid-brown volumes of the EETS, with the symbol of Alfred's
\begin{enumerate}
\item Anyone who reads Old and Middle English literary texts will be
familiar with the mid-brown volumes of the EETS, with the symbol of
Alfred's
\item Anyone who reads Old and Middle English literary texts will be
familiar with the mid-brown volumes of the EETS, with the symbol of
Alfred's
\end{enumerate}
\end{document}
```

However if the above example becomes bidirectional, as shown below:

```
\documentclass{article}
\usepackage{bidi}
\begin{document}
Anyone who reads Old and Middle English literary texts will be familiar
with the mid-brown volumes of the EETS, with the symbol of Alfred's
```

```
\begin{enumerate}
\item Anyone who reads Old and Middle English literary texts will be
familiar with the mid-brown volumes of the EETS, with the symbol of
Alfred's
\setRTL
\item Anyone who reads Old and Middle English literary texts will be
familiar with the mid-brown volumes of the EETS, with the symbol of
Alfred's
\end{enumerate}
\end{document}
```

Then some people may argue that this typographically does not look promising. For this purpose, RTLitems environment is provided which has the following syntax:

```
\begin{RTLitems}
  \item ⟨text⟩
  ...
\end{RTLitems}
```

By using the RTLitems environment, the previous example will look like the following:

```
\documentclass{article}
\usepackage{bidi}
\begin{document}
Anyone who reads Old and Middle English literary texts will be familiar
with the mid-brown volumes of the EETS, with the symbol of Alfred's
\begin{enumerate}
\item Anyone who reads Old and Middle English literary texts will be
familiar with the mid-brown volumes of the EETS, with the symbol of
Alfred's
\begin{RTLitems}
\item Anyone who reads Old and Middle English literary texts will be
familiar with the mid-brown volumes of the EETS, with the symbol of
Alfred's
\end{RTLitems}
\end{enumerate}
\end{document}
```

Similarly, LTRitems environment is defined which has the following syntax:

```
\begin{LTRitems}
  \item ⟨text⟩
  ...
\end{LTRitems}
```

1.19 LTRbibitems and RTLbibitems Environments

The syntax of LTRbibitems and RTLbibitems environments is exactly like the syntax of LTRitems and RTLitems environments but there are few differences:

- ☞ LTRitems and RTLitems environments should only be used for list-like environments (such as itemize, enumerate and description environments) but LTRbibitems and RTLbibitems environments should only be used for thebibliography environment.
- ☞ Clearly instead of `\item`, you have `\bibitem` inside LTRbibitems and RTLbibitems environments.

1.20 `\setLTRbibitems`, `\setRTLbibitems`, and `\setdefaultbibitems` commands

```
\setLTRbibitems  \setRTLbibitems  \setdefaultbibitems
```

- ☞ If your whole thebibliography environment is inside RTL mode, but all your `\bibitem`s are LTR and you actually want to have `\bibname` to appear on the RHS, you can use `\setLTRbibitems` command before thebibliography environment.
- ☞ If your whole thebibliography environment is inside LTR mode, but all your `\bibitem`s are RTL and you actually want to have `\bibname` to appear on the LHS, you can use `\setRTLbibitems` command before thebibliography environment.
- ☞ `\setdefaultbibitems` is the default, when your `\bibitems` are a mixture of LTR and RTL and it does not matter what mode (LTR or RTL) your thebibliography environment is in. Please note that you do not have to use `\setdefaultbibitems` command in this case at all.

  Consider an example that your thebibliography environment is inside LTR mode and you have, say two `\bibitems`. The first `\bibitem` is LTR and the second `\bibitem` is RTL. One could typeset this senario as shown below:

```
1 \documentclass{article}
2 \usepackage{bidi}
3 \begin{document}
4 \begin{thebibliography}{99}
5 \bibitem This is the first bibitem which is LTR.
6 \begin{RTLbibitems}
7 \bibitem This is the second bibitem which is RTL.
```

```
\end{RTLbibitems}
\end{thebibliography}
\end{document}
```

1.21 Typesetting margin par

By default, in RTL mode, `\marginpar` appears on LHS and its content is typeset RTL and in LTR mode, `\marginpar` appears on RHS and its content is typeset LTR. In addition, the following commands are provided:

```
\setRTLmarginpar  \setLTRmarginpar  \setdefaultmarginpar
\LTRmarginpar[⟨left-text⟩]{⟨right-text⟩}
\RTLmarginpar[⟨left-text⟩]{⟨right-text⟩}
```

- ☞ `\setRTLmarginpar` always makes `\marginpar` to appear on LHS and the content of `\marginpar` is typeset RTL (this is independent of the current mode).
- ☞ `\setLTRmarginpar` always makes `\marginpar` to appear on RHS and the content of `\marginpar` is typeset LTR (this is independent of the current mode).
- ☞ `\setdefaultmarginpar` gives the default behaviour of `\marginpar` as described above.
- ☞ `\LTRmarginpar` typesets ⟨*left-text*⟩ and ⟨*right-text*⟩ always LTR.
- ☞ `\RTLmarginpar` typesets ⟨*left-text*⟩ and ⟨*right-text*⟩ always RTL.
- ☞ in RTL mode, places of ⟨*left-text*⟩ and ⟨*right-text*⟩ swaps.

1.22 Typesetting of Headers and Footers

If the main direction of the document is RTL, then headers and footers are typeset RTL and if the main direction of the document is LTR, then headers and footers are typeset LTR.

1.23 Tabular Typesetting

In RTL mode, tabular are typeset RTL and in LTR mode, tabular are typeset LTR.

1.24 Equation Numbers

For `reqno`, equation numbers are on the right hand side and for `leqno`, equation numbers are on the left hand side, independent on the current mode.

2 Support For Various Packages and Classes

The bidi package supports amsmath, amstext, amsthm, array, arydshln, breqn, cals, caption, color, colortbl, crop, cuted, cutwin, dblfnote draftwatermark, empheq, fancyhdr, fancybox, fix2col, float, floatrow, flowfram, framed, ftnright, geometry, graphicx, hvfloat, hyperref, lettrine, listings, mdframed, midfloat, minitoc, multicol, multienum, newfloat, pdfpages, pstricks, quotchap, picinpar, ragged2e, rotating, sidecap, stabular, subfig, subfigure, supertabular, xtab, tabls, tabulary, PGF & TIKZ, tocbibind, tocloft, tocstyle, wrapfig, xcolor, xltxtra packages, amsart, amsbook, artikel1, artikel2, artikel3, extarticle, flashcards, standrad article, boek, boek3, standard book, bookest, extbook, extletter, scrlettr,standard letter, memoir, extreport, rapport1, rapport3, refrep, standard report, scrartcl, scrbook, scrreprt classes and any other packages and classes that relies on these packages and classes. This means, you can use all these packages and classes in addition to other packages and classes that rely on these packages and classes and use their functionality fully for your bidirectional documents.

We now give some details that you should know about the supported packages or classes.

2.1 Color

You can use color and xcolor packages to typeset texts in colours and colour boxes produced by `\colorbox` and `\fcolorbox` commands. Please note that your Coloured text should not span more than a line, if your text spans more than a line, you will be in trouble which means your whole document, page or paragraph may be coloured. If your texts spans more than a line, then you should use xecolor package.

Also if you are going to use `\color` command to colour the text at the beginning of a paragraph, then you should have `\leavevmode` before `\color` command.

For having coloured tabular, you can use colortbl package.

2.2 The dblfnote package

The dblfnote package makes footnotes double-columned. In addition bidi package adds bidirectional support for the dblfnote package by providing the following commands:

`\RTLdfnmakecol`	`\LTRdfnmakecol`

- ☞ `\RTLdfnmakecol` makes footnotes double-columned RTL.
- ☞ `\LTRdfnmakecol` makes footnotes double-columned LTR.
- ☞ If the main direction of the document is RTL, `\RTLdfnmakecol` is active and if the main direction of the document is LTR, `\LTRdfnmakecol` is active.

Please note that when using dblfnote package, the footnote rule will be as wide as the footnote column and `\autofootnoterule`, `\rightfootnoterule`, `\leftfootnoterule`, and `\textwidthfootnoterule` commonds have no effects.

2.3 Hyperref

The hyperref package works fine with bidirectional documents if and only if, your link will not span more than a line. If your link spans more than a line, then your whole document, or page or paragraph may be linked.

2.4 flowfram Package

You can use flowfram package for your bidirectional documents. Please note that flowfram package provides support for bidirectional column typesetting, for details, see its manual.

2.5 Multicolumn Typesetting

In the previous versions of bidi package, it was recommended that you need to use fmultico package instead the original multicol package for RTL multicolumn typesetting. This is not the case any more and you should not use buggy fmultico package any more. Simply load the original multicol package before loading bidi. bidi now supports multicol package and you can typeset bidirectional multi columns.

In addition, you also can use vwcol package for variable width bidirectional column typesetting.

3 Extra bidi Packages and Classes

3.1 bidi-longtable package

For typesetting RTL tables with longtable package, an experimental package, bidi-longtable package, is provided. bidi-longtable package should be loaded after longtable package.

3.2 bidituftе bundle

A modified version of tufte-latex, bidituftе bundle, mainly for RTL typesetting, is provided. If you never used bidituftе bundle or tufte-latex package and you want to use bidituftе bundle, then you need to look at tufte-latex package's manual and examples. In addition, for using bidituftе bundle, you need to know the following notes:

- ☞ You need to use bidituftе-book class instead tufte-book class and bidituftе-handout class instead tufte-handout class.
- ☞ bidituftе bundle provides the following extra commands:

\LTRsidenote	\RTLsidenote	\LTRmarginnote	\RTLmarginnote

☞ biditufte-book and biditufte-handout classes provide two extra options; RTLgeometry (active when loading either of classes) and LTRgeometry.

☞ biditufte bundle unlike tufts-latex package, only provides justified lines.

☞ Some features of tufte-latex that does not make any sense in RTL, do not exist in biditufte bundle (no need for soul, letterspace and macrotype packages).

☞ If you want to configure biditufte-book class for your own needs, then you can create a file with the name `biditufte-book.cfg` and put your LaTeX macros in that file; similarly, if you want to configure biditufte-handout class for your own needs, then you can create a file with the name `biditufte-handout.cfg` and put your LaTeX macros in that file.

3.3 Typesetting TeX and LaTeX Codes

The LaTeX codes in this manual are typeset using the bidicode package. In standard LaTeX you can not use footnotes inside `\chapter`, `\part`, `\section`, `\subsection`, `\subsection` and any other section-like commands, `\caption` and tabular environment.

bidi package provides bidiftnxtra package that solves the issue of footnote in standard LaTeX. bidiftnxtra package should be loaded after bidi package.

3.4 Typesetting Poems

The bidi package provides bidipoem package for typesetting Persian poems. It provides four environments, `traditionalpoem`, `modernpoem` and starred version of these. In the starred version of these environments you do not need to type `\\` and that is the only difference with the normal version of the environments. The `traditionalpoem` environment and its starred version are also useful for typesetting Classic Arabic poetry, in fact this package may also be useful for other RTL languages.

When using bidipoem package, at least you need to run `xelatex` twice on your document. In fact, if you run `xelatex` just once on your document, you get a message saying "Unjustified poem. Rerun `XeLaTeX` to get poem right".

When you typeset your poems, you might get underfull `\hbox` messages. This is absolutely normal and if you want to get rid of these underfull `\hbox` messages, then you would need to use Kashida.

If you need to change the default distance between two verses, you can do just that by:

```
\renewcommand\poemcolsepskip{⟨length⟩}
```

```
\begin{traditionalpoem}
⟨verse1⟩&⟨verse2⟩\\
⟨verse3⟩&⟨verse4⟩\\
...
\end{traditionalpoem}
```

```
\begin{traditionalpoem*}
⟨verse1⟩&⟨verse2⟩
⟨verse3⟩&⟨verse4⟩
...
\end{traditionalpoem*}
```

3.5 Typesetting Resumé

The bidi package provides bidimoderncv[2] class for typesetting resumés. There are two examples, namely `test-casualcv.tex` and `test-classiccv.tex`, in the doc folder than you can look and learn how you can use it.

3.6 Print Two Pages On A Single Page

bidi package provides bidi2in1 package for printing two pages on a single (landscape) A4 page. Page numbers appear on the included pages, and not on the landscape 'container' page.

3.7 Producing Presentations

At the moment, there is only one class that you can prepare your presentations with.

3.7.1 bidipresentation Class

bidipresentation is a simple class for presentations to be shown on screen or beamer. It is derived from LaTeX's article class. The virtual paper size of documents produced by this class: width=128mm, height=96mm. bidipresentation requires that the fancyhdr and geometry packages are available on the system. Enhancements to the bidipresentation class are easily made available by other packages, these include slides with a background from a bitmap (eso-pic package).

Usage: The class is used with

[2]This class is the modified version of moderncv class.

```
\documentclass [Options] {bidipresentation}
```

Options of the article class are also available to bidipresentation, e. g. 10pt, 11pt, 12pt for selection of font size. However, not all options of the article class will be appropriate for a presentation class, e. g. twocolumn.

A simple example document:

```
\documentclass[12pt]{bidipresentation}
\usepackage{eso-pic}
\usepackage[RTLdocument]{bidi}
\AddToShipoutPicture{
\includegraphics{gradient2.png}
}
\begin{document}
\begin{titlepage}
\centering
  \distance{1}
  {
\Huge \bfseries Title of the presentation \par
}
\vspace{1.3ex} \large
Author\\[2ex]Institution
\distance{2}
\end{titlepage}
\begin{plainslide}[Title of Page]
The first page
\end{plainslide}
\begin{rawslide}
The second page
\end{rawslide}
\end{document}
```

The title page can be created within the `titlepage` environment, the `\maketitle` command is not available. Slides may be created with the `plainslide` environment, you may add the title of the slide with the optional parameter. The contents of the slide are centered vertically. Another environment generating a slide is `rawslide`: slides are written without title, contents are not vertically centered.

The `\distance{`⟨*number*⟩`}` command allows to introduce vertical space into slides constructed with the `rawslide` and `titlepage` environments. You should use pairs of `\distance{}` commands with numbers indicating the relative height of empty space, see the titlepage in the example above.

You can use `\pause` command to generate pauses in your presentation.

Pictures can be included with the `\includegraphics` command of the graphicx package. Please be aware that the dimensions of the pages are 128mm × 96mm and therefore included graphics are scaled appropriately.

Enhancements to bidipresentation:

Fill background of a presentation with bitmaps: eso-pic package allows you to paint the background with a picture:

```
\usepackage{eso-pic}
...
\AddToShipoutPicture{
\includegraphics{gradient2.png}
}
```

`\AddToShipoutPicture{}` puts the picture on every page, `\AddToShipoutPicture*{}` puts it on to the current page, `\ClearShipoutPicture` clears the background beginning with the current page. Details of eso-pics commands can be found in its own documentation.

4 Some Useful Internal Macros and Programming Tips

There are some useful internal macros and programming tips that might be helpful for you. This section, explains all these useful internals and programming tips.

4.1 Equating Conditionals

`\eqnewif{`⟨*\newconditional1*⟩`}{`⟨*\newconditional2*⟩`}`

In standard LaTeX, `\newif` command is provided that you can define a new conditional with it. `\eqnewif` command is similar to `\newif` command but:

- ☞ With `\eqnewif` command, you can define two new conditionals instead one, so clearly it has two mandatory arguments.
- ☞ `\newconditional1` will be identical to `\newconditional2`, so that whenever `\newconditional1` is true, then `\newconditional2` is also true and whenever `\newconditional1` is false, then `\newconditional2` is also false and vice versa.

4.2 RTL Conditional

`\if@RTL`

`\if@RTL` conditional is true inside RTL mode and it is false in LTR mode.

4.3 Main RTL Conditional

`\if@RTLmain`

If the main direction of the document is RTL, `\if@RTLmain` is true and if the main direction of the document is LTR, `\if@RTLmain` is false.

4.4 Latin Conditional

`\if@Latin`

`\if@Latin` inside any environment that uses Latin font is true and inside any environment that uses RTL font is false.

4.5 Tags Internal Macro

`\@iftagsloaded{`⟨*tags name*⟩`}{`⟨*do thing(s) if the tag is loaded*⟩`}`
`{`⟨*do thing(s) if the tag is not loaded*⟩`}`

As you can see, the syntax of `\@iftagsloaded` is exactly the same as the syntax of `\@ifpackageloaded` and `\@ifclassloaded`. By tags, we mean things like `leqno` or `reqno`. Please note that in the argument ⟨*tags name*⟩, the extension `clo` should not be given.

4.6 Definition File Loaded Internal Macro

`\@ifdefinitionfileloaded{`⟨*definition file name*⟩`}`
`{`⟨*do thing(s) if the definition file is loaded*⟩`}`
`{`⟨*do thing(s) if the definition file is not loaded*⟩`}`

As you can see, the syntax of `\@ifdefinitionfileloaded` is exactly the same as the syntax of `\@ifpackageloaded` and `\@ifclassloaded`. By definition file, we mean things like `hyperref-bidi.def` or `wrapfig-bidi.def`. Please note that in the argument ⟨*definition file name*⟩, the extension `def` should not be given.

4.7 Tabular Conditional

`\if@RTLtab`

If the tabular is typeset RTL, `\if@RTLtab` is true and if the tabular is typeset LTR, `\if@RTLtab` is false.

4.8 Footnote Conditional

`\if@RTL@footnote`

When footnotes are typeset RTL, `\if@RTL@footnote` is true and when footnotes are typeset LTR, `\if@RTL@footnote` is false.

4.9 Direction Ensuring Macros

`\@ensure@RTL{`⟨*text*⟩`}`	`\@ensure@RL{`⟨*text*⟩`}`	`\@ensure@LTR{`⟨*text*⟩`}`
`\@ensure@LR{`⟨*text*⟩`}`	`\@ensure@dir{`⟨*text*⟩`}`	`\@ensure@maindir{`⟨*text*⟩`}`

- ☞ `\@ensure@RTL` and `\@ensure@RL` internals make sure that ⟨*text*⟩ is always typeset RTL, independent on the current mode.
- ☞ `\@ensure@LTR` and `\@ensure@LR` internals make sure that ⟨*text*⟩ is always typeset LTR, independent on the current mode.
- ☞ `\@ensure@dir` and `\@ensure@maindir` if used in RTL mode, they put ⟨*text*⟩ inside `\RLE` and if used in LTR mode, they put the text as it is.

4.10 Reset Direction Macro

`\save@dir`	`\saved@@dir`	`\reset@dir`

- ☞ `\save@dir`, if the direction of typesetting is RTL, defines `\saved@@dir` to be RTL and if the direction of typesetting is LTR, defines `\saved@@dir` to be LTR.
- ☞ `\reset@dir`, if `\saved@@dir` is defined as RTL, inserts `\setRTL` otherwise, if `\saved@@dir` is defined as LTR, inserts `\setLTR`, otherwise does nothing.

Part II
Plain TEX Manual

5 Basics

5.1 Loading The Package

You can load the package in the ordinary way;

`\input` *bidi*

When loading the package, it is important to know that: bidi should be the last package that you load, because otherwise you are certainly going to overwrite bidi's definitions and consequently, you will not get the expected output.

5.2 Commands for Version number, and Date of The Package

```
\bidiversion  \bididate
```

☞ `\bidiversion` gives the current version of the package.

☞ `\bididate` gives the current date of the package.

```
1 \input bidi
2 This is typeset by \textsf{bidi} package, \bidiversion, \bididate.
3 \end
```

5.3 Turning TeX--XeT features on and off

The bidirectional typesetting in XeTEX is based on TeX--XeT algorithm and bidi package automatically turns the feature on for typesetting bidirectional texts. As the internal data structures built by TeX--XeT differ from those built by TEX, the typesetting of a document by TeX--XeT may therefore differ from that performed by TEX. So you may notice that some packages behave differently when TeX--XeT feature is on and you may want to turn the feature off for a part of the text so that you get the default behaviour of original TEX. Two commands are provided for this purpose:

```
\TeXXeTOn  \TeXXeTOff
```

☞ `\TeXXeTOn` turns TeX--XeT feature on, which is active by default when bidi package is loaded.

☞ `\TeXXeTOff` turns TeX--XeT feature off.

5.4 Paragraph Switching Commands

```
\setLTR  \setLR  \unsetRL  \unsetRTL
\setRTL  \setRL  \unsetLTR
```

☞ With any of the commands in the first row, you can typeset LTR paragraphs.

☞ With any of the commands in the second row, you can typeset RTL paragraphs.

```
1 \input bidi
2 \setRTL%
3 Anyone who reads Old and Middle English literary texts will be
4  familiar with the mid-brown volumes of the EETS, with the symbol
5  of Alfred's jewel embossed on the front cover.
```

```
6
7  \setLTR% Notice the blank line before \setLTR
8  Anyone who reads Old and Middle English literary texts will be
9   familiar with the mid-brown volumes of the EETS, with the symbol
10  of Alfred's jewel embossed on the front cover.
11 \end
```

5.5 Pargraph Switching Environments

\LTR	⟨*text*⟩	\endLTR
\RTL	⟨*text*⟩	\endRTL

☞ With LTR environment, you can typeset LTR paragraphs.

☞ With RTL environment, you can typeset RTL paragraphs.

```
1  \input bidi
2  \RTL
3  Anyone who reads Old and Middle English literary texts will be familiar
4   with the mid-brown volumes of the EETS, with the symbol
5   of Alfred's jewel embossed on the front cover.
6  \LTR
7  Anyone who reads Old and Middle English literary texts will be familiar
8   with the mid-brown volumes of the EETS, with the symbol
9   of Alfred's jewel embossed on the front cover.
10 \endLTR
11 And we are still typesetting right to left.
12 \endRTL
13 \end
```

5.6 Typesetting Short LTR and RTL Texts

\LRE{⟨*text*⟩}	\LR{⟨*text*⟩}
\RLE{⟨*text*⟩}	\RL{⟨*text*⟩}

☞ With any of the commands in the first row, you can typeset short LTR text inside RTL paragraphs.

☞ With any of the commands in the second row, you can typeset short RTL text inside LTR paragraphs.

```
1  \input bidi
2  \RTL
3  Anyone who reads Old and Middle English \LRE{Short left to right text}
   literary texts will be familiar
4   with the mid-brown volumes of the EETS, with the symbol
```

```
 of Alfred's jewel embossed on the front cover.
\LTR
Anyone who reads Old and Middle English \RLE{Short right to left text}
literary texts will be familiar
 with the mid-brown volumes of the EETS, with the symbol
 of Alfred's jewel embossed on the front cover.
\endLTR
\endRTL
\end
```

5.7 Primitive-like commands

`\hboxR` `\hboxL` `\vboxR` `\vboxL`

- ☞ The syntax of `\hboxR` is exatly the same as the syntax of `\hbox`, but its contents is always typeset RTL.
- ☞ The syntax of `\hboxL` is exatly the same as the syntax of `\hbox`, but its contents is always typeset LTR.
- ☞ The syntax of `\vboxR` is exatly the same as the syntax of `\vbox`, but its contents is always typeset RTL.
- ☞ The syntax of `\vboxL` is exatly the same as the syntax of `\vbox`, but its contents is always typeset LTR.

5.8 Something To know about `\hbox`

If you enable RTL typesetting and typeset an horizontal box at the beginning of the document:

```
\input bidi
\setRTL
\hbox{This is a Test}
\end
```

You see that even you have used `\setRTL`, the horizontal box appears LTR (It appears on the left hand side and its content is typeset left to right). This is because when TEX starts, it is in the vertical mode so if you need to have that `\hbox` appear RTL, then write `\leavevmode` before `\hbox`:

```
\input bidi
\setRTL
\leavevmode\hbox{This is a Test}
\end
```

5.9 Typesetting Logos

`\XeTeX`

bidi defines XeTEX logo and in addition, it makes sure that the logo, TEX is typeset LTR.

6 Some Useful Internal Macros and Programming Tips

There are some useful internal macros and programming tips that might be helpful for you. This section, explains all these useful internals and programming tips.

6.1 RTL Conditional

`\if@RTL`

`\if@RTL` conditional is true inside RTL mode and it is false in LTR mode.

6.2 Main RTL Conditional

`\if@RTLmain`

If the main direction of the document is RTL, `\if@RTLmain` is true and if the main direction of the document is LTR, `\if@RTLmain` is false.

6.3 Direction Ensuring Macros

`\@ensure@RTL{`⟨*text*⟩`}` `\@ensure@RL{`⟨*text*⟩`}` `\@ensure@LTR{`⟨*text*⟩`}`
`\@ensure@LR{`⟨*text*⟩`}` `\@ensure@dir{`⟨*text*⟩`}` `\@ensure@maindir{`⟨*text*⟩`}`

- ☞ `\@ensure@RTL` and `\@ensure@RL` internals make sure that ⟨*text*⟩ is always typeset RTL, independent on the current mode.
- ☞ `\@ensure@LTR` and `\@ensure@LR` internals make sure that ⟨*text*⟩ is always typeset LTR, independent on the current mode.
- ☞ `\@ensure@dir` and `\@ensure@maindir` if used in RTL mode, they put ⟨*text*⟩ inside `\RLE` and if used in LTR mode, they put the text as it is.

6.4 Reset Direction Macro

`\save@dir` `\saved@@dir` `\reset@dir`

- ☞ `\save@dir`, if the direction of typesetting is RTL, defines `\saved@@dir` to be RTL and if the direction of typesetting is LTR, defines `\saved@@dir` to be LTR.

☞ `\reset@dir`, if `\saved@@dir` is defined as RTL, inserts `\setRTL` otherwise, if `\saved@@dir` is defined as LTR, inserts `\setLTR`, otherwise does nothing.

7 bidi implementation

7.1 amsart-xetex-bidi.def

```
\ProvidesFile{amsart-xetex-bidi.def}[2013/04/26 v0.8 bidi adaptations for amsart class for Xe
\def\@tocline#1#2#3#4#5#6#7{\relax
  \ifnum #1>\c@tocdepth % then omit
  \else
    \par \addpenalty\@secpenalty\addvspace{#2}%
    \begingroup \hyphenpenalty\@M
    \@ifempty{#4}{%
      \@tempdima\csname r@tocindent\number#1\endcsname\relax
    }{%
      \@tempdima#4\relax
    }%
    \parindent\z@ \if@RTL\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else\l
    \if@RTL\leftskip\else\rightskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
    #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
    \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
    \nobreak
    \endgroup
  \fi}
\renewcommand\thesubsection    {\thesection\@SepMark\arabic{subsection}}
\renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
\renewcommand\theparagraph     {\thesubsubsection\@SepMark\arabic{paragraph}}
\renewcommand\thesubparagraph  {\theparagraph\@SepMark\arabic{subparagraph}}
\def\part{\@startsection{part}{0}%
  \z@{\linespacing\@plus\linespacing}{.5\linespacing}%
  {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
\def\right@footnoterule{%
  \hbox to \columnwidth
  {\beginR \vbox{\kern-.4\p@
        \hrule\@width 5pc\kern11\p@\kern-\footnotesep}\hfil\endR}}
\def\left@footnoterule{\kern-.4\p@
        \hrule\@width 5pc\kern11\p@\kern-\footnotesep}


\long\def\@footnotetext#1{%
  \insert\footins{%
    \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
    \normalfont\footnotesize
    \interlinepenalty\interfootnotelinepenalty
    \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
    \floatingpenalty\@MM \hsize\columnwidth
    \@parboxrestore \parindent\normalparindent \sloppy
    \protected@edef\@currentlabel{%
```

```
      \csname p@footnote\endcsname\@thefnmark}%
    \@makefntext{%
      \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}

\long\def\@RTLfootnotetext#1{%
  \insert\footins{%
    \@RTLtrue%
    \normalfont\footnotesize
    \interlinepenalty\interfootnotelinepenalty
    \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
    \floatingpenalty\@MM \hsize\columnwidth
    \@parboxrestore \parindent\normalparindent \sloppy
    \protected@edef\@currentlabel{%
      \csname p@footnote\endcsname\@thefnmark}%
    \@makefntext{%
      \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}



\long\def\@LTRfootnotetext#1{%
  \insert\footins{%
    \@RTLfalse%
    \normalfont\footnotesize
    \interlinepenalty\interfootnotelinepenalty
    \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
    \floatingpenalty\@MM \hsize\columnwidth
    \@parboxrestore \parindent\normalparindent \sloppy
    \protected@edef\@currentlabel{%
      \csname p@footnote\endcsname\@thefnmark}%
    \@makefntext{%
      \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}


\footdir@temp\footdir@ORG@bidi@amsart@footnotetext\@footnotetext{\bidi@footdir@footnote}%
\footdir@temp\footdir@ORG@bidi@amsart@RTLfootnotetext\@RTLfootnotetext{R}%
\footdir@temp\footdir@ORG@bidi@amsart@LTRfootnotetext\@LTRfootnotetext{L}%

\renewenvironment{thebibliography}[1]{%
  \@bibtitlestyle
  \normalfont\bibliofont\labelsep .5em\relax
  \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
  \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
  \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
    \leftmargin\labelwidth \advance\leftmargin\labelsep
    \usecounter{enumiv}}%
  \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
  \sfcode`\.=\@m
}{%
  \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
  \endlist
```

```
}
\def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
  \columnseprule\z@ \columnsep 35\p@
  \@indextitlestyle
  \thispagestyle{plain}%
  \let\item\@idxitem
  \parindent\z@  \parskip\z@\@plus.3\p@\relax
  \if@RTL\raggedleft\else\raggedright\fi
  \hyphenpenalty\@M
  \footnotesize}
\def\@idxitem{\par\hangindent \if@RTL-\fi2em}
\def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
\def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
\def\maketitle{\par
  \@topnum\z@ % this prevents figures from falling at the top of page 1
  \@setcopyright
  \thispagestyle{firstpage}% this sets first page specifications
  \uppercasenonmath\shorttitle
  \ifx\@empty\shortauthors \let\shortauthors\shorttitle
  \else \andify\shortauthors
  \fi
  \@maketitle@hook
  \begingroup
  \@maketitle
  \toks@\@xp{\shortauthors}\@temptokena\@xp{\shorttitle}%
  \toks4{\def\\{ \ignorespaces}}% defend against questionable usage
  \edef\@tempa{%
    \@nx\markboth{\the\toks4
      \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
  \@tempa
  \endgroup
  \c@footnote\z@
  \@cleartopmattertags
}
```

7.2 amsbook-xetex-bidi.def

```
\ProvidesFile{amsbook-xetex-bidi.def}[2013/04/26 v0.9 bidi adaptations for amsbook class for
\def\@tocline#1#2#3#4#5#6#7{\relax
  \ifnum #1>\c@tocdepth % then omit
  \else
    \par \addpenalty\@secpenalty\addvspace{#2}%
    \begingroup \hyphenpenalty\@M
    \@ifempty{#4}{%
      \@tempdima\csname r@tocindent\number#1\endcsname\relax
    }{%
      \@tempdima#4\relax
    }%
    \parindent\z@ \if@RTL\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else\l
    \if@RTL\leftskip\else\rightskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
```

```
    #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
    \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
    \nobreak
    \endgroup
  \fi}
\renewcommand\thesubsection    {\thesection\@SepMark\arabic{subsection}}
\renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
\renewcommand\theparagraph     {\thesubsubsection\@SepMark\arabic{paragraph}}
\renewcommand\thesubparagraph  {\theparagraph\@SepMark\arabic{subparagraph}}
\def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
  \columnseprule\z@ \columnsep 35\p@
  \@indextitlestyle
  \thispagestyle{plain}%
  \let\item\@idxitem
  \parindent\z@  \parskip\z@\@plus.3\p@\relax
  \if@RTL\raggedleft\else\raggedright\fi
  \hyphenpenalty\@M
  \footnotesize}
\def\@idxitem{\par\hangindent \if@RTL-\fi2em}
\def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
\def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
\def\right@footnoterule{%
  \hbox to \columnwidth
  {\beginR \vbox{\kern-.4\p@
        \hrule\@width 5pc\kern11\p@\kern-\footnotesep}\hfil\endR}}
\def\left@footnoterule{\kern-.4\p@
        \hrule\@width 5pc\kern11\p@\kern-\footnotesep}

\long\def\@footnotetext#1{%
  \insert\footins{%
   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
    \normalfont\footnotesize
    \interlinepenalty\interfootnotelinepenalty
    \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
    \floatingpenalty\@MM \hsize\columnwidth
    \@parboxrestore \parindent\normalparindent \sloppy
    \protected@edef\@currentlabel{%
      \csname p@footnote\endcsname\@thefnmark}%
    \@makefntext{%
      \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}

\long\def\@RTLfootnotetext#1{%
  \insert\footins{%
   \@RTLtrue%
    \normalfont\footnotesize
    \interlinepenalty\interfootnotelinepenalty
    \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
    \floatingpenalty\@MM \hsize\columnwidth
    \@parboxrestore \parindent\normalparindent \sloppy
    \protected@edef\@currentlabel{%
```

```
      \csname p@footnote\endcsname\@thefnmark}%
    \@makefntext{%
      \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}


\long\def\@LTRfootnotetext#1{%
  \insert\footins{%
   \@RTLfalse%
    \normalfont\footnotesize
    \interlinepenalty\interfootnotelinepenalty
    \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
    \floatingpenalty\@MM \hsize\columnwidth
    \@parboxrestore \parindent\normalparindent \sloppy
    \protected@edef\@currentlabel{%
      \csname p@footnote\endcsname\@thefnmark}%
    \@makefntext{%
      \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}


\footdir@temp\footdir@ORG@bidi@amsbook@footnotetext\@footnotetext{\bidi@footdir@footnote}%
\footdir@temp\footdir@ORG@bidi@amsbook@RTLfootnotetext\@RTLfootnotetext{R}%
\footdir@temp\footdir@ORG@bidi@amsbook@LTRfootnotetext\@LTRfootnotetext{L}%

\renewenvironment{thebibliography}[1]{%
  \@bibtitlestyle
  \normalfont\bibliofont\labelsep .5em\relax
  \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
  \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
  \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
    \leftmargin\labelwidth \advance\leftmargin\labelsep
    \usecounter{enumiv}}%
  \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
  \sfcode`\.=\@m
}{%
  \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
  \endlist
}
\def\@makechapterhead#1{\global\topskip 7.5pc\relax
  \begingroup
  \fontsize{\@xivpt}{18}\bfseries\centering
    \ifnum\c@secnumdepth>\m@ne
      \leavevmode \hskip-\if@RTL\rightskip\else\leftskip\fi
      \rlap{\vbox to\z@{\vss
          \centerline{\normalsize\mdseries
              \uppercase\@xp{\chaptername}\enspace\thechapter}
          \vskip 3pc}}\hskip\if@RTL\rightskip\else\leftskip\fi\fi
     #1\par \endgroup
  \skip@34\p@ \advance\skip@-\normalbaselineskip
  \vskip\skip@ }
```

```
\def\maketitle{\par
  \@topnum\z@ % this prevents figures from falling at the top of page 1
  \begingroup
  \@maketitle
  \endgroup
  \c@footnote\z@
  \def\do##1{\let##1\relax}%
  \do\maketitle \do\@maketitle \do\title \do\@xtitle \do\@title
  \do\author \do\@xauthor \do\address \do\@xaddress
  \do\email \do\@xemail \do\curraddr \do\@xcurraddr
  \do\dedicatory \do\@dedicatory \do\thanks \do\thankses
  \do\keywords \do\@keywords \do\subjclass \do\@subjclass
}
```

7.3 amsmath-xetex-bidi.def

```
\ProvidesFile{amsmath-xetex-bidi.def}[2013/09/23 v0.8 bidi adaptations for amsmath package fo
\let\veqno=\eqno
\iftagsleft@ \let\veqno=\leqno \fi
\renewcommand{\numberwithin}[3][\arabic]{%
  \@ifundefined{c@#2}{\@nocounterr{#2}}{%
    \@ifundefined{c@#3}{\@nocnterr{#3}}{%
      \@addtoreset{#2}{#3}%
      \@xp\xdef\csname the#2\endcsname{%
        \@xp\@nx\csname the#3\endcsname \@nx\@SepMark\@nx#1{#2}}}}%
}
\def\maketag@@@#1{\hbox{\m@th\normalfont\if@Latin\else\beginR\fi#1\if@Latin\else\endR\fi}}
```

7.4 amstext-xetex-bidi.def

```
\ProvidesFile{amstext-xetex-bidi.def}[2013/04/04 v0.1 bidi adaptations for amstext package fo
\def\textdef@#1#2#3{\hbox{{%
                    \everymath{#1}%
                    \let\f@size#2\selectfont
                    \if@Latin\else\beginR\fi#3\if@Latin\else\endR\fi}}}
```

7.5 amsthm-xetex-bidi.def

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

7.6 array-xetex-bidi.def

```
\ProvidesFile{array-xetex-bidi.def}[2010/08/01 v0.2b bidi adaptations for array package for X
\def\@testpach{\@chclass
 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
  \ifnum \@lastchclass=7 5 \else
   \ifnum \@lastchclass=8 \tw@ \else
    \ifnum \@lastchclass=9 \thr@@
   \else \z@
   \ifnum \@lastchclass = 10 \else
   \edef\@nextchar{\expandafter\string\@nextchar}%
   \@chnum
```

```
   \if \@nextchar c\z@ \else
    \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
     \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
   \z@ \@chclass
   \if\@nextchar |\@ne \else
    \if \@nextchar !6 \else
     \if \@nextchar @7 \else
      \if \@nextchar <8 \else
       \if \@nextchar >9 \else
  10
  \@chnum
  \if \@nextchar m\thr@@\else
   \if \@nextchar p4 \else
    \if \@nextchar b5 \else
   \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi
   \fi \fi  \fi  \fi  \fi  \fi  \fi \fi \fi \fi \fi \fi \fi}
\def\@tabular{\if@RTL\@RTLtabtrue\fi%
  \leavevmode
  \hbox \bgroup\if@RTLtab\beginR \fi $\col@sep\tabcolsep \let\d@llarbegin\begingroup
                                     \let\d@llarend\endgroup
  \@tabarray}
\def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup\@RTLtabfalse}
\expandafter\let\csname endtabular*\endcsname=\endtabular
\def\@array[#1]#2{%
  \@tempdima \ht \strutbox
  \advance \@tempdima by\extrarowheight
  \setbox \@arstrutbox \hbox{\vrule
             \@height \arraystretch \@tempdima
             \@depth \arraystretch \dp \strutbox
             \@width \z@}%
  \begingroup
  \@mkpream{#2}%
  \xdef\@preamble{\noexpand \ialign \@halignto
                  \bgroup \@arstrut \@preamble
                          \tabskip \z@ \cr}%
  \endgroup
  \@arrayleft
  \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi \fi
  \bgroup
  \let \@sharp ##\let \protect \relax
  \lineskip \z@
  \baselineskip \z@
  \m@th
  \let\\\@arraycr \let\tabularnewline\\\let\par\@empty \if@RTLtab\hbox\bgroup\beginR\vbox\bgr
\def\@tabarray{\@ifnextchar[{\@array}{\@array[c]}}
\def\endarray{\crcr \egroup\if@RTLtab\egroup\endR\egroup\fi \egroup \@arrayright \gdef\@pream
\def\array{\col@sep\arraycolsep
  \def\d@llarbegin{$}\let\d@llarend\d@llarbegin\gdef\@halignto{}%
  \@RTLtabfalse\@tabarray}
```

7.7 article-xetex-bidi.def

```
\ProvidesFile{article-xetex-bidi.def}[2010/07/25 v0.4 bidi adaptations for standard article c
\if@titlepage
  \renewcommand\maketitle{\begin{titlepage}%
  \let\footnotesize\small
  \let\right@footnoterule\relax
  \let\left@footnoterule\relax
  \let\textwidth@footnoterule\relax
  \let \footnote \thanks
  \let \LTRfootnote \LTRthanks
  \let \RTLfootnote \RTLthanks
  \null\vfil
  \vskip 60\p@
  \begin{center}%
    {\LARGE \@title \par}%
    \vskip 3em%
    {\large
     \lineskip .75em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
      \vskip 1.5em%
    {\large \@date \par}%       % Set date in \large size.
  \end{center}\par
  \@thanks
  \vfil\null
  \end{titlepage}%
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\LTRthanks\relax
  \global\let\RTLthanks\relax
  \global\let\maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty
  \global\let\@title\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\else
\renewcommand\maketitle{\par
  \begingroup
    \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
    \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
    \long\def\@makefntext##1{\parindent 1em\noindent
            \hb@xt@1.8em{%
                \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
```

```
    \if@twocolumn
      \ifnum \col@number=\@ne
        \@maketitle
      \else
        \twocolumn[\@maketitle]%
      \fi
    \else
      \newpage
      \global\@topnum\z@   % Prevents figures from going at top of page.
      \@maketitle
    \fi
    \thispagestyle{plain}\@thanks
  \endgroup
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\LTRthanks\relax
  \global\let\RTLthanks\relax
  \global\let\maketitle\relax
  \global\let\@maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty
  \global\let\@title\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\def\@maketitle{%
  \newpage
  \null
  \vskip 2em%
  \begin{center}%
  \let \footnote \thanks
  \let \LTRfootnote \LTRthanks
  \let \RTLfootnote \RTLthanks
    {\LARGE \@title \par}%
    \vskip 1.5em%
    {\large
      \lineskip .5em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
    \vskip 1em%
    {\large \@date}%
  \end{center}%
  \par
  \vskip 1.5em}
\fi
\renewcommand*\l@part[2]{%
```

```
  \ifnum \c@tocdepth >-2\relax
    \addpenalty\@secpenalty
    \addvspace{2.25em \@plus\p@}%
    \setlength\@tempdima{3em}%
    \begingroup
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      {\leavevmode
       \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
       \nobreak
       \if@compatibility
         \global\@nobreaktrue
         \everypar{\global\@nobreakfalse\everypar{}}%
      \fi
    \endgroup
  \fi}
\renewcommand*\l@section[2]{%
  \ifnum \c@tocdepth >\z@
    \addpenalty\@secpenalty
    \addvspace{1.0em \@plus\p@}%
    \setlength\@tempdima{1.5em}%
    \begingroup
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      \leavevmode \bfseries
      \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
      \hskip -\if@RTL\rightskip\else\leftskip\fi
      #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
    \endgroup
  \fi}
\renewcommand\left@footnoterule{%
  \kern-3\p@
  \hrule\@width.4\columnwidth
  \kern2.6\p@}
\renewcommand\right@footnoterule{%
  \hbox to \columnwidth
  {\beginR \vbox{%
  \kern-3\p@
  \hrule\@width.4\columnwidth
  \kern2.6\p@}\hfil\endR}}
\renewcommand\thesubsection   {\thesection\@SepMark\@arabic\c@subsection}
\renewcommand\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
\renewcommand\theparagraph    {\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
\def\@part[#1]#2{%
    \ifnum \c@secnumdepth >\m@ne
      \refstepcounter{part}%
      \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
    \else
      \addcontentsline{toc}{part}{#1}%
```

```
    \fi
    {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
     \interlinepenalty \@M
     \normalfont
     \ifnum \c@secnumdepth >\m@ne
       \Large\bfseries \partname\nobreakspace\thepart
       \par\nobreak
     \fi
     \huge \bfseries #2%
     \markboth{}{}\par}%
    \nobreak
    \vskip 3ex
    \@afterheading}
\renewenvironment{thebibliography}[1]
     {\section*{\refname}%
      \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
      \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
      \list{\@biblabel{\@arabic\c@enumiv}}%
           {\settowidth\labelwidth{\@biblabel{#1}}%
            \leftmargin\labelwidth
            \advance\leftmargin\labelsep
            \@openbib@code
            \usecounter{enumiv}%
            \let\p@enumiv\@empty
            \renewcommand\theenumiv{\@arabic\c@enumiv}}%
      \sloppy
      \clubpenalty4000
      \@clubpenalty \clubpenalty
      \widowpenalty4000%
      \sfcode`\.\@m}
     {\def\@noitemerr
       {\@latex@warning{Empty `thebibliography' environment}}%
      \endlist}
\renewenvironment{theindex}
               {\if@twocolumn
                  \@restonecolfalse
                \else
                  \@restonecoltrue
                \fi
                \columnseprule \z@
                \columnsep 35\p@
                \twocolumn[\section*{\indexname}]%
                \@mkboth{\MakeUppercase\indexname}%
                        {\MakeUppercase\indexname}%
                \thispagestyle{plain}\parindent\z@
                \parskip\z@ \@plus .3\p@\relax
                \let\item\@idxitem}
               {\if@restonecol\onecolumn\else\clearpage\fi}
```

7.8 artikel1-xetex-bidi.def

```
\ProvidesFile{artikel1-xetex-bidi.def}[2011/08/26 v0.2 bidi adaptations for artikel1 class fo
\renewenvironment{theindex}{%
  \if@twocolumn
    \@restonecolfalse
  \else
    \@restonecoltrue
  \fi
  \columnseprule \z@
  \columnsep 35\p@
  \twocolumn[\section*{\indexname}]%
  \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
  \thispagestyle{plain}\parindent\z@
  \parskip\z@ \@plus .3\p@\relax
  \let\item\@idxitem
  }{%
  \if@restonecol\onecolumn\else\clearpage\fi}
\renewcommand*\head@style{%
    \interlinepenalty \@M
    \hyphenpenalty=\@M \exhyphenpenalty=\@M
    \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
\if@titlepage
  \renewenvironment{abstract}{%
      \titlepage
      \null\vfil
      \section*{\SectFont\abstractname}
      \noindent\ignorespaces}
     {\par\vfil\null\endtitlepage}
\else
  \renewenvironment{abstract}{%
      \if@twocolumn
        \section*{\abstractname}%
      \else
        \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
        \section*{\small\SectFont\abstractname}%
        \noindent\ignorespaces
      \fi}
      {\if@twocolumn\else\par\egroup\fi}
\fi
\renewcommand*\@regtocline[3]{%
  \ifnum #1>\c@tocdepth
  \else
    \vskip\z@\@plus.2\p@
    {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
     \if@RTL\rightskip\else\leftskip\fi\unitindent
     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
     \parfillskip\z@
     \@tempdima\unitindent
     \parindent\z@
```

```
    \leavevmode
    \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
    \hskip 1em \nobreak{\slshape #3}\par
    }%
  \fi}
\if@oldtoc
\renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >-2\relax
    \addpenalty\@secpenalty
    \addvspace{2.25em \@plus\p@}%
    \begingroup
      \setlength\@tempdima{3em}%
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      {\leavevmode
        \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
        \nobreak
       \if@compatibility
        \global\@nobreaktrue
        \everypar{\global\@nobreakfalse\everypar{}}%
      \fi
    \endgroup
  \fi}
\else
   \renewcommand*\l@part{%
     \ifnum \c@tocdepth >-2\relax
     \addpenalty\@secpenalty
     \addvspace{2.25em \@plus \p@}%
     \@regtocline{0}%
   \fi}
\fi
\if@oldtoc
\renewcommand*\l@section[2]{%
    \addpenalty\@secpenalty
    \addvspace{1.0em \@plus\p@}%
    \setlength\@tempdima{1.5em}%
    \begingroup
    \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
    \parfillskip -\@pnumwidth
    \leavevmode \bfseries
    \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
    \hskip -\if@RTL\rightskip\else\leftskip\fi
    #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
   \endgroup}
\else
   \renewcommand*\l@section{\@regtocline{1}}
\fi
\renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
\renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
\renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
```

```
\renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
\renewenvironment{thebibliography}[1]
     {\section*{\refname}%
       \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
      \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
      \list{\@biblabel{\@arabic\c@enumiv}}%
           {\settowidth\labelwidth{\@biblabel{#1}}%
            \leftmargin\labelwidth
            \advance\leftmargin\labelsep
            \@openbib@code
            \usecounter{enumiv}%
            \let\p@enumiv\@empty
            \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
      \sloppy\clubpenalty4000\widowpenalty4000%
      \sfcode`\.\@m}
     {\def\@noitemerr
       {\@latex@warning{Empty `thebibliography' environment}}%
      \endlist}
\renewcommand*\left@footnoterule{%
  \kern-3\p@
  \kern.5\baselineskip
  \hrule\@width\unitindent
  \kern.4\baselineskip
}
\renewcommand*\right@footnoterule{%
  \hbox to \columnwidth
  {\beginR \vbox{%
  \kern-3\p@
  \kern.5\baselineskip
  \hrule\@width\unitindent
  \kern.4\baselineskip}\hfil\endR}
}
\if@titlepage
\renewcommand*\TitleFont{\rmfamily}
\renewcommand*\maketitle{%
  \begin{titlepage}%
    \let\footnotesize\small
    \let\right@footnoterule\relax
    \let\left@footnoterule\relax
    \let\textwidth@footnoterule\relax
    \let \footnote \thanks
    \long\def\@makefntext##1{\parindent\z@
         \def\labelitemi{\textendash}\@revlabeltrue
         \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
    \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
    \if@compatibility\setcounter{page}{0}\fi
    \null\vfil
    \vskip 60\p@
    \begin{center}%
      \TitleFont
```

```
      {\LARGE \def\\{\penalty -\@M}
        \if@allcaps
          \expandafter\uc@nothanks\@title\thanks\relax
        \else
          \@title
        \fi\par}%
      \vskip 3em%
      {\large
        \lineskip .75em \parindent\z@
        \begin{tabular}[t]{c}%
          \if@allcaps
            \expandafter\uc@authornothanks\@author\and\relax
          \else
            \@author
          \fi
        \end{tabular}\par}%
      \vskip 1.5em%
      {\large
        \if@allcaps
          \uppercase\expandafter{\@date}%
        \else
          \@date
        \fi\par}%
      \end{center}\par
    \@thanks
    \vfil\null
  \end{titlepage}%
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@title\@empty
  \global\let\@date\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
\def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
    \futurelet\@tempa\uc@ax}
\def\uc@ax{%
  \ifx\@tempa\relax
  \else
    \\ \andname \\ \expandafter\uc@authornothanks
  \fi}
\def\uc@tx{\ifx\@tempa\relax
    \else \expandafter\uc@ty \fi}
\def\uc@ty#1{\thanks{#1}\uc@nothanks}
```

```
\else
\renewcommand*\maketitle{\par
  \begingroup
    \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
    \def\@makefnmark{\rlap{%
      \@textsuperscript{\normalfont\@thefnmark}}}%
    \long\def\@makefntext{\@xmakefntext{%
      \@textsuperscript{\normalfont\@thefnmark}}}%
    \if@twocolumn
      \ifnum \col@number=\@ne
        \@maketitle
      \else
        \twocolumn[\@maketitle]%
      \fi
    \else
      \newpage
      \global\@topnum\z@
      \@maketitle
    \fi
    \thispagestyle{plain}\@thanks
  \endgroup
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\maketitle\relax
  \global\let\@maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@title\@empty
  \global\let\@date\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
  }
\def\@maketitle{%
  \newpage
  \null
  \vskip 2em%
  \begin{center}%
    \let \footnote \thanks
    {\LARGE \TitleFont \@title \par}%
    \vskip 1.5em%
    {\large \TitleFont
      \lineskip .5em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
    \vskip 1em%
    {\large \TitleFont \@date}%
  \end{center}%
```

```
  \par
  \vskip 1.5em}
\fi
```

7.9 artikel2-xetex-bidi.def

```
\ProvidesFile{artikel2-xetex-bidi.def}[2011/08/26 v0.2 bidi adaptations for artikel2 class fo
\renewenvironment{theindex}{%
  \if@twocolumn
    \@restonecolfalse
  \else
    \@restonecoltrue
  \fi
  \columnseprule \z@
  \columnsep 35\p@
  \twocolumn[\section*{\indexname}]%
  \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
  \thispagestyle{plain}\parindent\z@
  \parskip\z@ \@plus .3\p@\relax
  \let\item\@idxitem
  }{%
  \if@restonecol\onecolumn\else\clearpage\fi}
\renewcommand*\@regtocline[3]{%
  \ifnum #1>\c@tocdepth
  \else
    \vskip\z@\@plus.2\p@
    {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
     \if@RTL\rightskip\else\leftskip\fi\unitindent
     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
     \parfillskip\z@
     \@tempdima\unitindent
     \advance\@tempdima by \othermargin
     \parindent\z@
     \leavevmode
     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
     \hskip 1em \nobreak{\slshape #3}\par
     }%
  \fi}
\if@oldtoc
\renewcommand*\l@section[2]{%
    \addpenalty\@secpenalty
    \addvspace{1.0em \@plus\p@}%
    \setlength\@tempdima{1.5em}%
    \begingroup
    \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
    \parfillskip -\@pnumwidth
    \leavevmode \bfseries
    \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
    \hskip -\if@RTL\rightskip\else\leftskip\fi
    #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
```

```
   \endgroup}
\else
   \renewcommand*\l@section{\@regtocline{1}}
\fi
\if@oldtoc
\renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >-2\relax
    \addpenalty\@secpenalty
    \addvspace{2.25em \@plus\p@}%
    \begingroup
      \setlength\@tempdima{3em}%
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      {\leavevmode
        \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
        \nobreak
       \if@compatibility
        \global\@nobreaktrue
        \everypar{\global\@nobreakfalse\everypar{}}%
      \fi
    \endgroup
  \fi}
\else
   \renewcommand*\l@part{%
     \ifnum \c@tocdepth >-2\relax
     \addpenalty\@secpenalty
     \addvspace{2.25em \@plus \p@}%
     \@regtocline{0}%
   \fi}
\fi
\renewcommand*\head@style{%
    \interlinepenalty \@M
    \hyphenpenalty=\@M \exhyphenpenalty=\@M
    \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
\if@titlepage
  \renewenvironment{abstract}{%
      \titlepage
      \null\vfil
      \section*{\SectFont\abstractname}%
      \noindent\ignorespaces}
     {\par\vfil\null\endtitlepage}
\else
  \renewenvironment{abstract}{%
      \if@twocolumn
        \section*{\abstractname}%
      \else
        \section*{\hskip\unitindent\small\SectFont\abstractname}%
        \list{}{\setlength\listparindent{\unitindent}%
                \setlength\parindent    {\z@}%
                \setlength\leftmargin   {\unitindent}%
```

```
                \setlength\rightmargin  {\unitindent}%
                \setlength\parsep       {\z@}}%
        \item[]%
      \fi}
      {\if@twocolumn\else\par\endlist\fi}
\fi
\renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
\renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
\renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
\renewcommand*\left@footnoterule{%
  \kern-3\p@
  \hrule\@width 3\unitindent
  \kern 2.6\p@
}
\renewcommand*\right@footnoterule{%
  \hbox to \columnwidth
  {\beginR \vbox{%
  \kern-3\p@
  \hrule\@width 3\unitindent
  \kern 2.6\p@}\hfil\endR}
}
\renewenvironment{thebibliography}[1]
     {\section*{\refname}%
       \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
      \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
      \list{\@biblabel{\@arabic\c@enumiv}}%
           {\settowidth\labelwidth{\@biblabel{#1}}%
            \leftmargin\labelwidth
            \advance\leftmargin\labelsep
            \@openbib@code
            \usecounter{enumiv}%
            \let\p@enumiv\@empty
            \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
      \sloppy\clubpenalty4000\widowpenalty4000%
      \sfcode`\.\@m}
     {\def\@noitemerr
       {\@latex@warning{Empty `thebibliography' environment}}%
      \endlist}
\if@titlepage
\renewcommand*\TitleFont{\rmfamily}
\renewcommand*\maketitle{%
  \begin{titlepage}%
    \let\footnotesize\small
    \let\right@footnoterule\relax
    \let\left@footnoterule\relax
    \let\textwidth@footnoterule\relax
    \let \footnote \thanks
    \long\def\@makefntext##1{\parindent\z@
         \def\labelitemi{\textendash}\@revlabeltrue
```

```
        \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
  \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
  \if@compatibility\setcounter{page}{0}\fi
  \null\vfil
  \vskip 60\p@
  \begin{center}%
    \TitleFont
    {\LARGE \def\\{\penalty -\@M}
      \if@allcaps
        \expandafter\uc@nothanks\@title\thanks\relax
      \else
        \@title
      \fi\par}%
    \vskip 3em%
    {\large
      \lineskip .75em \parindent\z@
      \begin{tabular}[t]{c}%
        \if@allcaps
          \expandafter\uc@authornothanks\@author\and\relax
        \else
          \@author
        \fi
      \end{tabular}\par}%
    \vskip 1.5em%
    {\large
      \if@allcaps
        \uppercase\expandafter{\@date}%
      \else
        \@date
      \fi\par}%
    \end{center}\par
  \@thanks
  \vfil\null
 \end{titlepage}%
 \setcounter{footnote}{0}%
 \global\let\thanks\relax
 \global\let\maketitle\relax
 \global\let\@thanks\@empty
 \global\let\@author\@empty
 \global\let\@title\@empty
 \global\let\@date\@empty
 \global\let\title\relax
 \global\let\author\relax
 \global\let\date\relax
 \global\let\and\relax
}
\def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
\def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
    \futurelet\@tempa\uc@ax}
\def\uc@ax{%
```

```
  \ifx\@tempa\relax
  \else
    \\ \andname \\ \expandafter\uc@authornothanks
  \fi}
\def\uc@tx{\ifx\@tempa\relax
    \else \expandafter\uc@ty \fi}
\def\uc@ty#1{\thanks{#1}\uc@nothanks}
\else
\renewcommand*\maketitle{\par
  \begingroup
    \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
    \long\def\@makefntext##1{\parindent\z@
      \def\labelitemi{\textendash}%
      \leavevmode\hb@xt@.5\unitindent{%
        \@textsuperscript{\normalfont\@thefnmark}\hfil}##1}
    \if@twocolumn
      \ifnum \col@number=\@ne
        \@maketitle
      \else
        \twocolumn[\@maketitle]%
      \fi
    \else
      \newpage
      \global\@topnum\z@
      \@maketitle
    \fi
    \thispagestyle{plain}\@thanks
  \endgroup
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\maketitle\relax
  \global\let\@maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@title\@empty
  \global\let\@date\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
  }
\def\@maketitle{%
  \newpage
  \null
  \vskip 2em%
  \begin{center}%
    \let \footnote \thanks
    {\LARGE \TitleFont \@title \par}%
    \vskip 1.5em%
    {\large \TitleFont
```

```
      \lineskip .5em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
    \vskip 1em%
    {\large \TitleFont \@date}%
  \end{center}%
  \par
  \vskip 1.5em}
\fi
```

7.10 artikel3-xetex-bidi.def

```
\ProvidesFile{artikel3-xetex-bidi.def}[2011/08/26 v0.3 bidi adaptations for artikel3 class fo
\renewenvironment{theindex}{%
  \if@twocolumn
    \@restonecolfalse
  \else
    \@restonecoltrue
  \fi
  \columnseprule \z@
  \columnsep 35\p@
  \twocolumn[\section*{\indexname}]%
  \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
  \thispagestyle{plain}\parindent\z@
  \parskip\z@ \@plus .3\p@\relax
  \let\item\@idxitem
  }{%
  \if@restonecol\onecolumn\else\clearpage\fi}
\renewcommand*\head@style{%
    \interlinepenalty \@M
    \hyphenpenalty=\@M \exhyphenpenalty=\@M
    \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
\renewcommand*\@regtocline[3]{%
  \ifnum #1>\c@tocdepth
  \else
    \vskip\z@\@plus.2\p@
    {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
     \if@RTL\rightskip\else\leftskip\fi\unitindent
     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
     \parfillskip\z@
     \@tempdima\unitindent
     \parindent\z@
     \leavevmode
     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
     \hskip 1em \nobreak{\slshape #3}\par
     }%
  \fi}
\if@oldtoc
\renewcommand*\l@part[2]{%
```

```
  \ifnum \c@tocdepth >-2\relax
    \addpenalty\@secpenalty
    \addvspace{2.25em \@plus\p@}%
    \begingroup
      \setlength\@tempdima{3em}%
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      {\leavevmode
        \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
        \nobreak
       \if@compatibility
        \global\@nobreaktrue
        \everypar{\global\@nobreakfalse\everypar{}}%
      \fi
    \endgroup
  \fi}
\else
   \renewcommand*\l@part{%
     \ifnum \c@tocdepth >-2\relax
     \addpenalty\@secpenalty
     \addvspace{2.25em \@plus \p@}%
     \@regtocline{0}%
   \fi}
\fi

\if@oldtoc
\renewcommand*\l@section[2]{%
    \addpenalty\@secpenalty
    \addvspace{1.0em \@plus\p@}%
    \setlength\@tempdima{1.5em}%
    \begingroup
    \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
    \parfillskip -\@pnumwidth
    \leavevmode \bfseries
    \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
    \hskip -\if@RTL\rightskip\else\leftskip\fi
    #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
   \endgroup}
\else
   \renewcommand*\l@section{\@regtocline{1}}
\fi
\if@titlepage
  \renewenvironment{abstract}{%
      \titlepage
      \null\vfil
      \section*{\SectFont\abstractname}%
      \noindent\ignorespaces}
     {\par\vfil\null\endtitlepage}
\else
  \renewenvironment{abstract}{%
```

```
      \if@twocolumn
        \section*{\abstractname}%
      \else
        \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
        \section*{\small\SectFont\abstractname}%
        \noindent\ignorespaces
      \fi}
      {\if@twocolumn\else\par\egroup\fi}
\fi
\renewcommand*\left@footnoterule{%
  \kern-3\p@
  \kern.5\baselineskip
  \hrule\@width\unitindent
  \kern.4\baselineskip
}
\renewcommand*\right@footnoterule{%
  \hbox to \columnwidth
  {\beginR \vbox{%
  \kern-3\p@
  \kern.5\baselineskip
  \hrule\@width\unitindent
  \kern.4\baselineskip}\hfil\endR}
}
\renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
\renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
\renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
\renewenvironment{thebibliography}[1]
     {\section*{\refname}%
       \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
      \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
      \list{\@biblabel{\@arabic\c@enumiv}}%
           {\settowidth\labelwidth{\@biblabel{#1}}%
            \leftmargin\labelwidth
            \advance\leftmargin\labelsep
            \@openbib@code
            \usecounter{enumiv}%
            \let\p@enumiv\@empty
            \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
      \sloppy\clubpenalty4000\widowpenalty4000%
      \sfcode`\.\@m}
     {\def\@noitemerr
       {\@latex@warning{Empty `thebibliography' environment}}%
      \endlist}
\if@titlepage
\renewcommand*\TitleFont{\rmfamily}
\renewcommand*\maketitle{%
  \begin{titlepage}%
    \let\footnotesize\small
    \let\right@footnoterule\relax
```

```
    \let\left@footnoterule\relax
    \let\textwidth@footnoterule\relax
    \let \footnote \thanks
    \long\def\@makefntext##1{\parindent\z@
         \def\labelitemi{\textendash}\@revlabeltrue
         \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
    \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
    \if@compatibility\setcounter{page}{0}\fi
    \null\vfil
    \vskip 60\p@
    \begin{center}%
      \TitleFont
      {\LARGE \def\\{\penalty -\@M}
        \if@allcaps
          \expandafter\uc@nothanks\@title\thanks\relax
        \else
          \@title
        \fi\par}%
      \vskip 3em%
      {\large
        \lineskip .75em \parindent\z@
        \begin{tabular}[t]{c}%
          \if@allcaps
            \expandafter\uc@authornothanks\@author\and\relax
          \else
            \@author
          \fi
        \end{tabular}\par}%
      \vskip 1.5em%
      {\large
        \if@allcaps
          \uppercase\expandafter{\@date}%
        \else
          \@date
        \fi\par}%
      \end{center}\par
    \@thanks
    \vfil\null
  \end{titlepage}%
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@title\@empty
  \global\let\@date\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
```

```
}
\def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
\def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
    \futurelet\@tempa\uc@ax}
\def\uc@ax{%
  \ifx\@tempa\relax
  \else
    \\ \andname \\ \expandafter\uc@authornothanks
  \fi}
\def\uc@tx{\ifx\@tempa\relax
    \else \expandafter\uc@ty \fi}
\def\uc@ty#1{\thanks{#1}\uc@nothanks}
\else
\renewcommand*\maketitle{\par
  \begingroup
    \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
    \def\@makefnmark{\rlap{%
      \@textsuperscript{\normalfont\@thefnmark}}}%
    \long\def\@makefntext{\@xmakefntext{%
      \@textsuperscript{\normalfont\@thefnmark}}}%
    \if@twocolumn
      \ifnum \col@number=\@ne
        \@maketitle
      \else
        \twocolumn[\@maketitle]%
      \fi
    \else
      \newpage
      \global\@topnum\z@
      \@maketitle
    \fi
    \thispagestyle{plain}\@thanks
  \endgroup
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\maketitle\relax
  \global\let\@maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@title\@empty
  \global\let\@date\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
  }
\def\@maketitle{%
  \newpage
  \null
  \vskip 2em%
```

```
\if@titlecentered
  \begin{center}%
    \let \footnote \thanks
    {\LARGE \TitleFont \@title \par}%
    \vskip 1.5em%
    {\large \TitleFont
      \lineskip .5em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
    \vskip 1em%
    {\large \TitleFont \@date}%
  \end{center}%
 \else
     {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
     {\large \TitleFont \lineskip .5em \tabcolsep\z@
              \def\and{%%% \begin{tabular} has already started
                       \end{tabular}\hskip 1em plus .17fil
                       \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}%% \end{tabul
              \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}\p
     \vskip 1em {\large \TitleFont \@date}
 \fi
  \par
  \vskip 1.5em}
\fi
```

7.11 arydshln-xetex-bidi.def

```
\ProvidesFile{arydshln-xetex-bidi.def}[2010/08/01 v0.2 bidi adaptations for arydshln package
\def\endarray{\adl@endarray \egroup \adl@arrayrestore \if@RTLtab\egroup\endR\egroup\fi\egroup
\def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup\@RTLtabfalse}
\expandafter\let\csname endtabular*\endcsname\endtabular
\let\adl@array\@array
\def\@array{\adl@everyvbox\everyvbox
        \everyvbox{\adl@arrayinit \the\adl@everyvbox \everyvbox\adl@everyvbox}%
        \ifadl@inactive \adl@inactivate \else \adl@activate \fi
        \let\adl@noalign\noalign
        \adl@array}
\ifadl@usingarypkg
\def\@testpach{\@chclass
 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
  \ifnum \@lastchclass=7 5 \else
   \ifnum \@lastchclass=8 \tw@ \else
    \ifnum \@lastchclass=9 \thr@@
   \else \z@
   \ifnum \@lastchclass = 10 \else
   \edef\@nextchar{\expandafter\string\@nextchar}%
   \@chnum
   \if \@nextchar c\z@ \else
    \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
```

```
    \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
  \z@ \@chclass
  \if\@nextchar |\@ne \let\@arrayrule\adl@arrayrule \else
  \if\@nextchar :\@ne \let\@arrayrule\adl@arraydashrule \else
  \if\@nextchar ;\@ne \let\@arrayrule\adl@argarraydashrule \else
   \if \@nextchar !6 \else
    \if \@nextchar @7 \else
     \if \@nextchar <8 \else
      \if \@nextchar >9 \else
  10
  \@chnum
  \if \@nextchar m\thr@@\else
   \if \@nextchar p4 \else
    \if \@nextchar b5 \else
  \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi
  \fi \fi  \fi  \fi  \fi  \fi  \fi \fi \fi \fi \fi \fi \fi}

\def\@classz{\@classx
  \@tempcnta \count@
  \prepnext@tok
  \@addtopreamble{\ifcase \@chnum
     \hfil
     \adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
     \hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
     \hfil\hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\or
  \setbox\adl@box\hbox \adl@startmbox{\@nextchar}\insert@column
       \adl@endmbox\or
  \setbox\adl@box\vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
  \setbox\adl@box\vbox \@startpbox{\@nextchar}\insert@column \@endpbox
  \fi}\prepnext@tok}
\def\adl@class@start{4}
\def\adl@class@iiiorvii{7}

\else
\def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4\relax \else
        \ifnum \@lastchclass=\thr@@ 5\relax \else
                \z@ \if #1c\@chnum \z@ \else
                    \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
                    \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
                \@chclass
                    \if #1|\@ne \let\@arrayrule\adl@arrayrule \else
                    \if #1:\@ne \let\@arrayrule\adl@arraydashrule \else
                    \if #1;\@ne \let\@arrayrule\adl@argarraydashrule \else
                    \if #1@\tw@ \else
                    \if #1p\thr@@ \else \z@ \@preamerr 0\fi
        \fi  \fi  \fi  \fi  \fi  \fi  \fi  \fi  \fi}

\def\@arrayclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
                \or \or \@addamp \or
                \@acolampacol \or \@firstampfalse \@acol \fi
```

```
        \edef\@preamble{\@preamble
                \ifcase \@chnum
                    \hfil\adl@putlrc{$\relax\@sharp$}\hfil
                \or \adl@putlrc{$\relax\@sharp$}\hfil
                \or \hfil\adl@putlrc{$\relax\@sharp$}\fi}}
\def\@tabclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
                \or \or \@addamp \or
                \@acolampacol \or \@firstampfalse \@acol \fi
        \edef\@preamble{\@preamble
        \ifcase \@chnum
                    \hfil\adl@putlrc{\@sharp\unskip}\hfil
                \or \adl@putlrc{\@sharp\unskip}\hfil
                \or \hfil\hskip\z@ \adl@putlrc{\@sharp\unskip}\fi}}
\def\adl@class@start{6}
\def\adl@class@iiiorvii{3}
\fi
\@ifpackageloaded{colortbl}{%
\def\adl@inactivate{\adl@org@inactivate \let\CT@setup\adl@CT@setup}
\def\adl@activate{\adl@org@activate \let\CT@setup\adl@act@CT@setup
        \let\@endpbox\adl@org@endpbox}
\let\adl@CT@setup\CT@setup
\def\CT@setup{\adl@CT@setup
        \@tempdima\ht\z@ \advance\@tempdima\minrowclearance
        \ifdim\adl@height<\@tempdima \global\adl@height\@tempdima \fi
        \ifdim\adl@depth<\dp\z@ \global\adl@depth\dp\z@\fi}
\let\adl@act@CT@setup\CT@setup
\def\@classz{\@classx
        \@tempcnta\count@ \prepnext@tok
        \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
        \expandafter\adl@extract@arc\the\toks\@tempcnta\arrayrulecolor!\@nil
        \expandafter\adl@extract@drsc
                \the\toks\@tempcnta\doublerulesepcolor!\@nil
        \expandafter\adl@extract@dgc\the\toks\@tempcnta\dashgapcolor!\@nil
        \@addtopreamble{\if@RTL\beginL\fi%
                \setbox\z@\hbox\bgroup\bgroup\if@RTL\beginR\fi
                \ifcase \@chnum
                        \hskip\stretch{.5}\kern\z@
                        \d@llarbegin
                        \insert@column
                        \d@llarend\hskip\stretch{.5}%
                \or \d@llarbegin \insert@column \d@llarend \hfill
                \or \hfill \kern\z@ \d@llarbegin \insert@column \d@llarend
                \or  $\vcenter
                        \@startpbox{\@nextchar}\insert@column \@endpbox $%
                \or  \vtop \@startpbox{\@nextchar}\insert@column \@endpbox
                \or  \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
                \fi
                \if@RTL\endR\fi\egroup\egroup
                \begingroup
                        \CT@setup
```

```
                        \CT@column@color
                        \CT@row@color
                        \CT@cell@color
                        \CT@do@color
                \endgroup
                \@tempdima\ht\z@
                \advance\@tempdima\minrowclearance
                \vrule\@height\@tempdima\@width\z@
                \unhbox\z@\if@RTL\endL\fi}%
        \prepnext@tok}
\let\adl@act@classz\@classz
\let\adl@org@classz\@classz
}{}
```

7.12 bidi.sty

```
\NeedsTeXFormat{LaTeX2e}
\def\bididate{2014/02/05}
\def\bidiversion{v14.6}
\ProvidesPackage{bidi}[\bididate\space \bidiversion\space
Bidirectional typesetting in plain TeX and LaTeX]
\edef\@bidi@info{**************************************************^^J%
* ^^J%
* bidi package (Bidirectional typesetting in^^J%
* plain TeX and LaTeX, using XeTeX engine)^^J%
* ^^J%
* Description: A convenient interface for^^J%
* typesetting bidirectional texts in plain TeX^^J%
* and LaTeX.  The package includes adaptations^^J%
* for use with many other commonly-used packages.^^J%
* ^^J%
* Copyright  20092013 Vafa Khalighi^^J%
* ^^J%
* \bididate, \bidiversion^^J%
* ^^J%
* License: LaTeX Project Public License, version^^J%
* 1.3c or higher (your choice)^^J%
* ^^J%
* Location on CTAN: /macros/xetex/latex/bidi^^J%
* ^^J%
* Issue tracker: https://github.com/vafa/bidi/issues^^J%
* ^^J%
* Support: persian-tex@tug.org^^J%
**************************************************}
\typeout{\@bidi@info}
\edef\bidi@everyjob{\the\everyjob}
\everyjob{\bidi@everyjob\typeout{\@bidi@info}}
\RequirePackage{iftex}
\RequireXeTeX
\RequirePackage{biditools}
```

```
\RequirePackage{zref-abspage}
\RequirePackage{auxhook}
\RequirePackage{ltxcmds}
\eqnewif{\if@RTLmain}{\if@rlmain}
\eqnewif{\if@RTL}{\if@rl}
\newif\if@Latin
\eqnewif{\if@RTLtab}{\if@tab@rl}
\newif\if@RTLmarginpar
\newif\if@LTRmarginpar
\newif\if@LTRbibitems
\newif\if@RTLbibitems
\newif\if@extrafootnotefeatures
\newif\if@parafootRTL
\newif\if@RTLcolumnfootnotes
\eqnewif{\if@RTL@footnote}{\if@rl@footnote}
\newif\if@bidi@list@minipage@parbox
\newif\if@bidi@list@minipage@parbox@not@nob
\@RTLmainfalse
\AtBeginDocument{%
  \if@RTLmain\else
    \if@RTL\@RTLmaintrue%
    \else\@RTLmainfalse%
    \fi%
  \fi%
}
\let\n@xt=\
\bidi@newrobustcmd*{\LRE}{\protect\pLRE}%
\def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
\bidi@newrobustcmd*{\RLE}{\protect\pRLE}
\def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
\def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
  \errmessage{Missing left brace has been substituted}\fi \bgroup}
\input{latex-xetex-bidi.def}
\input{loadingorder-xetex-bidi.def}
\DeclareOption{RTLdocument}{\@RTLtrue\@RTL@footnotetrue\autofootnoterule}
\DeclareOption{rldocument}{\@RTLtrue\@RTL@footnotetrue\autofootnoterule}
\DeclareOption{extrafootnotefeatures}{\@extrafootnotefeaturestrue}
\ProcessOptions

\if@extrafootnotefeatures
  \input{extrafootnotefeatures-xetex-bidi.def}
\fi
```

7.13 bidi.tex

```
\def\bididate{2014/02/05}
\def\bidiversion{v0.2}
\catcode`@=11
\let \protect \relax
\newlinechar`\^^J
```

```
\edef\@bidi@info{**************************************************^^J%
* ^^J%
* bidi package (Bidirectional typesetting in^^J%
* plain TeX and LaTeX, using XeTeX engine)^^J%
* ^^J%
* Description: A convenient interface for^^J%
* typesetting bidirectional texts in plain TeX^^J%
* and LaTeX.  The package includes adaptations^^J%
* for use with many other commonly-used packages.^^J%
* ^^J%
* Copyright  20092013 Vafa Khalighi^^J%
* ^^J%
* \bididate, \bidiversion^^J%
* ^^J%
* License: LaTeX Project Public License, version^^J%
* 1.3c or higher (your choice)^^J%
* ^^J%
* Location on CTAN: /macros/xetex/latex/bidi^^J%
* ^^J%
* Issue tracker: https://github.com/vafa/bidi/issues^^J%
* ^^J%
* Support: persian-tex@tug.org^^J%
**************************************************}
\message{\@bidi@info}
\edef\bidi@everyjob{\the\everyjob}
\everyjob{\bidi@everyjob\message{\@bidi@info}}
\input iftex.sty
\RequireXeTeX
\newif\if@RTLmain
\newif\if@RTL
\newif\if@sentdir
\newif\if@RTL@footnote
\@RTLmainfalse
\def\setRTLmain{%
  \if@RTLmain\else
    \if@RTL\@RTLmaintrue%
    \else\@RTLmainfalse%
    \fi%
  \fi%
}
\let\n@xt=\
\protected\def\LRE{\protect\pLRE}%
\def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
\protected\def\RLE{\protect\pRLE}
\def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
\def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
  \errmessage{Missing left brace has been substituted}\fi \bgroup}
\input plain-xetex-bidi.def
\catcode`@=12
```

7.14 bidi2in1.sty

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{bidi2in1}
\pagestyle{plain}
\newcount\evenpage
\newcount\oddpage
\twocolumn
\def\@oddfoot{\evenpage=\thepage%
\multiply\evenpage by 2%
\oddpage=\the\evenpage%
\advance\oddpage by -1%
\hfil\the\evenpage\hfil\hfil\the\oddpage\hfil}%
\def\@evenfoot{\evenpage=\thepage%
\multiply\evenpage by 2%
\oddpage=\the\evenpage%
\advance\oddpage by -1%
\hfil\the\oddpage\hfil\hfil\the\evenpage\hfil}%
\textwidth 9.49in
\textheight 6.7in
\columnsep 0.9in
\columnseprule 0.125pt
\headheight 0cm
\topmargin 0in
\marginparwidth 0in
\marginparsep 0in
\hoffset 0.05in % Corrected
\voffset -0.5in %top margin space is 1.0in by default
\oddsidemargin 0in
\evensidemargin 0in
\headsep 0cm
\topskip 0cm
\parskip 0.15in       %
\headsep 0pt
\special{papersize=11.69in,8.26in}
\renewcommand\maketitle{\par
\begingroup
\renewcommand\thefootnote{\@fnsymbol\c@footnote}%
\def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
\long\def\@makefntext##1{\parindent 1em\noindent
\hb@xt@1.8em{%
\hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
\@maketitle
\@thanks
\endgroup
\setcounter{footnote}{0}%
\global\let\thanks\relax
\global\let\maketitle\relax
\global\let\@maketitle\relax
\global\let\@thanks\@empty
```

```
\global\let\@author\@empty
\global\let\@date\@empty
\global\let\@title\@empty
\global\let\title\relax
\global\let\author\relax
\global\let\date\relax
\global\let\and\relax
}
```

7.15 bidicode.sty

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{bidicode}
\RequirePackage{xcolor}
\RequirePackage{showexpl}
\definecolor{hellgelb}{rgb}{1,1,0.85}
\definecolor{colKeys}{rgb}{0,0,1}
\definecolor{colIdentifier}{rgb}{0,0,0}
\definecolor{colComments}{rgb}{1,0,0}
\definecolor{colString}{rgb}{0,0.5,0}
\lstset{
    language=[LaTeX]TEX,
    float=hbp,
    basicstyle=\ttfamily\small,
    identifierstyle=\color{colIdentifier},
    keywordstyle=\color{colKeys},
    stringstyle=\color{colString},
    commentstyle=\color{colComments},
    columns=flexible,
    tabsize=4,
    gobble =1,
    extendedchars=true,
    showspaces=false,
    showstringspaces=false,
    numbers=left,
    numbersep=0.9em,
    numberstyle=\tiny, %
    frame=single,
    captionpos=b,
    xleftmargin=1em,
    breaklines=true,
    breakautoindent=false,
    breakindent=0pt,
    escapeinside=**,
    pos=r,
    explpreset={%
    xleftmargin=1em,columns=flexible,language=[LaTeX]TEX},
    morekeywords={setLTR,setLR,setRTL,setRL,LRE,LR,RLE,RL,lr,bidiversion,bididate}
}
\newcommand\HLON{%
```

```
  \gdef\lst@alloverstyle##1{%
    \fboxrule=0pt
    \fboxsep=0pt
    \fcolorbox{hellgelb}{hellgelb}{\bfseries\strut##1}%
}}
\newcommand\HLOFF{%
  \xdef\lst@alloverstyle##1{##1}%
}
\newcommand\Larg [1]{{\normalfont\itshape#1\/}}
\newcommand\Larga[1]{$\langle$\Larg{#1}$\rangle$}
\newcommand\Largb[1]{\lcb\Larg{#1}\rcb}
\newcommand\Largs[1]{\lsb\Larg{#1}\rsb}
\newcommand\Largr[1]{\lrb\Larg{#1}\rrb}
\newcommand\LBEG[1]{{\normalfont\ttfamily\bs{}begin\lcb#1\rcb}}
\newcommand\LEND[1]{{\normalfont\ttfamily\bs{}end\lcb#1\rcb}}

\DeclareRobustCommand\bs{{\normalfont\ttfamily\symbol{92}}}
\DeclareRobustCommand\lcb{{\normalfont\ttfamily\char`\{}}
\DeclareRobustCommand\rcb{{\normalfont\ttfamily\char`\}}}
\DeclareRobustCommand\lsb{{\normalfont\ttfamily[}}
\DeclareRobustCommand\rsb{{\normalfont\ttfamily]}}
\DeclareRobustCommand\lrb{{\normalfont\ttfamily(}}
\DeclareRobustCommand\rrb{{\normalfont\ttfamily)}}

\def\Lcs#1{\nxLcs{#1}}
\def\LcsStar#1{\nxLcs{#1}\OptArg*{*}}
\def\nxLcs#1{\texttt{\symbol{92}#1}}

\def\Coordx#1{$x_{#1}$}
\def\Coordy#1{$y_{#1}$}
\def\Coordz#1{$z_{#1}$}
\def\Coord#1{\Coordx{#1},\kern 1pt\Coordy{#1}}
\def\Coordn{\Coordx{n},\kern 1pt\Coordy{n}}
\def\CoordIII#1{\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1}}
\def\CAny{\Coordx{},\kern 1pt\Coordy{}}
\def\CIIIAny{\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}}
\def\coord#1{(\Coordx{#1},\kern 1pt\Coordy{#1})}
\def\coordn{(\Coordx{n},\kern 1pt\Coordy{n})}
\def\coordiii#1{(\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1})}
\def\coordx#1{($x_{#1}$)}
\def\coordy#1{($y_{#1}$)}
\def\coordz#1{($z_{#1}$)}
\def\cAny{(\Coordx{},\kern 1pt\Coordy{})}
\def\ciiiAny{(\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{})}

\newsavebox{\boxdef}
\newenvironment{BDef}
  {\begin{lrbox}\boxdef
      \def\arraystretch{1.0}
      \begin{tabular}{@{}l@{}l@{}l@{}l@{}}
```

```
  }
  {\end{tabular}\end{lrbox}

   {\BCmd\fbox{\usebox\boxdef}\endBCmd}
   \aftergroup\@afterindentfalse\aftergroup\@afterheading
  }

\newenvironment{BDef*}
  {\begin{lrbox}\boxdef
      \def\arraystretch{1.0}
      \begin{tabular}{@{}l@{}l@{}l@{}}
  }
  {\end{tabular}\end{lrbox}
   {\begin{BCmd*}\fbox{\usebox\boxdef}\end{BCmd*}}
   \aftergroup\@afterindentfalse\aftergroup\@afterheading
  }
\newenvironment{BCmd}{
  \@beginparpenalty-\@lowpenalty
  \topsep\BDefaboveskip
  \fboxsep3pt
  \flushleft}
 {\@endparpenalty\@M
  \@topsepadd\BDefbelowskip
  \endflushleft}

\newenvironment{BCmd*}{
  \@beginparpenalty\@M
  \topsep\BDefinlineskip
  \fboxsep3pt
  \flushleft}
 {\@endparpenalty5000
  \endflushleft}

\newskip\BDefaboveskip
\newskip\BDefbelowskip
\newskip\BDefinlineskip
\setlength\BDefaboveskip{10pt plus 4pt}
\setlength\BDefbelowskip{6pt}
\setlength\BDefinlineskip{6pt}

\def\OptArgs{\colorbox{black!20}{\texttt{[Options]}}\kern1pt}
\def\OptArg{\@ifnextchar*\OptArg@i{\OptArg@ii*}}
\def\OptArg@i*#1{\colorbox{black!20}{\texttt{#1}}\kern1pt}
\def\OptArg@ii*#1{\colorbox{black!20}{\texttt{[#1]}}\kern1pt}
```

7.16 bidiftnxtra.sty

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{bidiftnxtra}
\newtoks\bidi@p@ftn
```

```
\let\FN@sf@@footnote\footnote
\let\FN@sf@@LTRfootnote\LTRfootnote
\let\FN@sf@@RTLfootnote\RTLfootnote
\def\footnote{\ifx\protect\@typeset@protect
    \expandafter\FN@sf@@footnote
  \else
    \expandafter\FN@sf@gobble@opt
  \fi
}
\def\LTRfootnote{\ifx\protect\@typeset@protect
    \expandafter\FN@sf@@LTRfootnote
  \else
    \expandafter\FN@sf@gobble@opt
  \fi
}
\def\RTLfootnote{\ifx\protect\@typeset@protect
    \expandafter\FN@sf@@RTLfootnote
  \else
    \expandafter\FN@sf@gobble@opt
  \fi
}
\edef\FN@sf@gobble@opt{\noexpand\protect
  \expandafter\noexpand\csname FN@sf@gobble@opt \endcsname}
\expandafter\def\csname FN@sf@gobble@opt \endcsname{%
  \@ifnextchar[%]
    \FN@sf@gobble@twobracket
    \@gobble
}
\def\FN@sf@gobble@twobracket[#1]#2{}
\let\FN@sf@@footnotemark\footnotemark
\def\footnotemark{\ifx\protect\@typeset@protect
    \expandafter\FN@sf@@footnotemark
  \else
    \expandafter\FN@sf@gobble@optonly
  \fi
}
\edef\FN@sf@gobble@optonly{\noexpand\protect
  \expandafter\noexpand\csname FN@sf@gobble@optonly \endcsname}
\expandafter\def\csname FN@sf@gobble@optonly \endcsname{%
  \@ifnextchar[%]
    \FN@sf@gobble@bracket
    {}%
}
\def\FN@sf@gobble@bracket[#1]{}
\def\@tabular{\if@RTL\global\@RTLtabtrue\fi
   \leavevmode \hbox \bgroup
   \let\@footnotetext\bidi@p@ftntext
   \let\@LTRfootnotetext\bidi@p@LTRftntext
   \let\@RTLfootnotetext\bidi@p@RTLftntext
   \let\@xfootnotenext\bidi@p@xftntext
```

```
   \let\@xfootnote\bidi@p@xfootnote
   \let\@xLTRfootnotenext\bidi@p@xLTRftntext
   \let\@xLTRfootnote\bidi@p@xLTRfootnote
    \let\@xRTLfootnotenext\bidi@p@xRTLftntext
   \let\@xRTLfootnote\bidi@p@xRTLfootnote
   \if@RTLtab\beginR \fi
   $\let\@acol\@tabacol
   \let\@classz\@tabclassz
   \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
\def\endtabular{\crcr\egroup\if@RTLtab\egroup\endR\egroup\fi
                 \egroup $\if@RTLtab\endR\fi\egroup
                  \ifx\@captype\@undefined
                   \global\bidi@p@ftn\expandafter{\expandafter}\the\bidi@p@ftn\fi%
                 \global\@RTLtabfalse}
\long\def\bidi@p@ftntext#1{%
  \edef\@tempy{\the\bidi@p@ftn\noexpand\footnotetext[\the\csname c@\@mpfn\endcsname]}%
  \global\bidi@p@ftn\expandafter{\@tempy{#1}}}%
\long\def\bidi@p@LTRftntext#1{%
  \edef\@tempyi{\the\bidi@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\@mpfn\endcsname]}%
  \global\bidi@p@ftn\expandafter{\@tempyi{#1}}}%
\long\def\bidi@p@RTLftntext#1{%
  \edef\@tempyii{\the\bidi@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\@mpfn\endcsname]}%
  \global\bidi@p@ftn\expandafter{\@tempyii{#1}}}%


\long\def\bidi@p@xftntext[#1]#2{%
  \global\bidi@p@ftn\expandafter{\the\bidi@p@ftn\footnotetext[#1]{#2}}}

\long\def\bidi@p@xLTRftntext[#1]#2{%
  \global\bidi@p@ftn\expandafter{\the\bidi@p@ftn\LTRfootnotetext[#1]{#2}}}

\long\def\bidi@p@xRTLftntext[#1]#2{%
  \global\bidi@p@ftn\expandafter{\the\bidi@p@ftn\RTLfootnotetext[#1]{#2}}}


\def\bidi@p@xfootnote[#1]{%
   \begingroup
     \csname c@\@mpfn\endcsname #1\relax
     \unrestored@protected@xdef\@thefnmark{\thempfn}%
   \endgroup
   \@footnotemark\bidi@p@xftntext[#1]}


\def\bidi@p@xLTRfootnote[#1]{%
   \begingroup
     \csname c@\@mpfn\endcsname #1\relax
     \unrestored@protected@xdef\@thefnmark{\thempfn}%
   \endgroup
   \@footnotemark\bidi@p@xLTRftntext[#1]}

```

```
1850
1851 \def\bidi@p@xRTLfootnote[#1]{%
1852    \begingroup
1853      \csname c@\@mpfn\endcsname #1\relax
1854      \unrestored@protected@xdef\@thefnmark{\thempfn}%
1855    \endgroup
1856    \@footnotemark\bidi@p@xRTLftntext[#1]}
1857
1858 \def\@xfloat #1[#2]{%
1859   \@nodocument
1860   \def \@captype {#1}%
1861    \def \@fps {#2}%
1862    \@onelevel@sanitize \@fps
1863    \def \reserved@b {!}%
1864    \ifx \reserved@b \@fps
1865      \@fpsadddefault
1866    \else
1867      \ifx \@fps \@empty
1868        \@fpsadddefault
1869      \fi
1870    \fi
1871    \ifhmode
1872      \@bsphack
1873      \@floatpenalty -\@Mii
1874    \else
1875      \@floatpenalty-\@Miii
1876    \fi
1877   \ifinner
1878      \@parmoderr\@floatpenalty\z@
1879   \else
1880     \@next\@currbox\@freelist
1881       {%
1882        \@tempcnta \sixt@@n
1883        \expandafter \@tfor \expandafter \reserved@a
1884          \expandafter :\expandafter =\@fps
1885          \do
1886           {%
1887            \if \reserved@a h%
1888              \ifodd \@tempcnta
1889              \else
1890                \advance \@tempcnta \@ne
1891              \fi
1892            \fi
1893            \if \reserved@a t%
1894              \@setfpsbit \tw@
1895            \fi
1896            \if \reserved@a b%
1897              \@setfpsbit 4%
1898            \fi
1899            \if \reserved@a p%
```

```
            \@setfpsbit 8%
          \fi
          \if \reserved@a !%
            \ifnum \@tempcnta>15
              \advance\@tempcnta -\sixt@@n\relax
            \fi
          \fi
          }%
      \@tempcntb \csname ftype@\@captype \endcsname
      \multiply \@tempcntb \@xxxii
      \advance \@tempcnta \@tempcntb
      \global \count\@currbox \@tempcnta
      }%
    \@fltovf
  \fi
  \global \setbox\@currbox
    \color@vbox
      \normalcolor
      \vbox \bgroup
       \let\@footnotetext\bidi@p@ftntext
       \let\@LTRfootnotetext\bidi@p@LTRftntext
       \let\@RTLfootnotetext\bidi@p@RTLftntext
       \let\@xfootnotenext\bidi@p@xftntext
        \let\@xfootnote\bidi@p@xfootnote
        \let\@xLTRfootnotenext\bidi@p@xLTRftntext
        \let\@xLTRfootnote\bidi@p@xLTRfootnote
        \let\@xRTLfootnotenext\bidi@p@xRTLftntext
        \let\@xRTLfootnote\bidi@p@xRTLfootnote
        \hsize\columnwidth
        \@parboxrestore
        \@floatboxreset
}
\def \@endfloatbox{%
      \par\vskip\z@skip      %% \par\vskip\z@ added 15 Dec 87
      \@minipagefalse
      \outer@nobreak
    \egroup                  %% end of vbox
    \global\bidi@p@ftn\expandafter{\expandafter}\the\bidi@p@ftn
  \color@endbox
}
```

7.17 bidi-longtable.sty

```
\ProvidesPackage{bidi-longtable}[2012/12/12 v0.1 typesetting bidi longtables in XeTeX engine
\def\longtable{\if@RTL\@RTLtabtrue\fi%
  \par
  \ifx\multicols\@undefined
  \else
     \ifnum\col@number>\@ne
       \@twocolumntrue
```

```
    \fi
  \fi
  \if@twocolumn
    \LT@err{longtable not in 1-column mode}\@ehc
  \fi
  \begingroup
  \@ifnextchar[\LT@array{\LT@array[x]}}
\def\endlongtable{%
  \crcr
  \noalign{%
    \let\LT@entry\LT@entry@chop
    \xdef\LT@save@row{\LT@save@row}}%
  \LT@echunk
  \LT@start
  \unvbox\z@
  \LT@get@widths
  \if@filesw
    {\let\LT@entry\LT@entry@write\immediate\write\@auxout{%
      \gdef\expandafter\noexpand
        \csname LT@\romannumeral\c@LT@tables\endcsname
          {\LT@save@row}}}%
  \fi
  \ifx\LT@save@row\LT@@save@row
  \else
    \LT@warn{Column \@width s have changed\MessageBreak
             in table \thetable}%
    \LT@final@warn
  \fi
  \endgraf\penalty -\LT@end@pen
  \endgroup
  \global\@mparbottom\z@
  \pagegoal\vsize
  \endgraf\penalty\z@\addvspace\LTpost
  \ifvoid\footins\else\insert\footins{}\fi\@RTLtabfalse}
\def\LT@output{%
  \ifnum\outputpenalty <-\@Mi
    \ifnum\outputpenalty > -\LT@end@pen
      \LT@err{floats and marginpars not allowed in a longtable}\@ehc
    \else
      \setbox\z@\vbox{\unvbox\@cclv}%
      \ifdim \ht\LT@lastfoot>\ht\LT@foot
        \dimen@\pagegoal
        \advance\dimen@-\ht\LT@lastfoot
        \ifdim\dimen@<\ht\z@
          \setbox\@cclv\vbox{\unvbox\z@\copy\LT@foot\vss}%
          \@makecol
          \@outputpage
          \setbox\z@\vbox{\box\LT@head}%
        \fi
      \fi
```

```
      \global\@colroom\@colht
      \global\vsize\@colht
      \vbox
        {\hbox{\if@RTLtab\beginR\fi\vbox{\unvbox\z@\box\ifvoid\LT@lastfoot\LT@foot\else\LT@la
    \fi
  \else
    \setbox\@cclv\vbox{\hbox{\if@RTLtab\beginR\fi\vbox{\unvbox\@cclv\copy\LT@foot\vss}\if@RTL
    \@makecol
    \@outputpage
      \global\vsize\@colroom
    \copy\LT@head\nobreak
  \fi}
```

7.18 bidimoderncv.cls

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesClass{bidimoderncv}
\newif\if@DEBUG\@DEBUGfalse
\DeclareOption{a4paper}{
  \setlength\paperheight{297mm}
  \setlength\paperwidth{210mm}}
\DeclareOption{a5paper}{
  \setlength\paperheight{210mm}
  \setlength\paperwidth{148mm}}
\DeclareOption{b5paper}{
  \setlength\paperheight{250mm}
  \setlength\paperwidth{176mm}}
\DeclareOption{letterpaper}{
  \setlength\paperheight{11in}
  \setlength\paperwidth{8.5in}}
\DeclareOption{legalpaper}{
  \setlength\paperheight{14in}
  \setlength\paperwidth{8.5in}}
\DeclareOption{executivepaper}{
  \setlength\paperheight{10.5in}
  \setlength\paperwidth{7.25in}}
\DeclareOption{landscape}{
  \setlength\@tempdima{\paperheight}
  \setlength\paperheight{\paperwidth}
  \setlength\paperwidth{\@tempdima}}
\newcommand\@ptsize{}
\DeclareOption{10pt}{\renewcommand\@ptsize{0}}
\DeclareOption{11pt}{\renewcommand\@ptsize{1}}
\DeclareOption{12pt}{\renewcommand\@ptsize{2}}
\DeclareOption{draft}{\setlength\overfullrule{5pt}}
\DeclareOption{final}{\setlength\overfullrule{0pt}}
\newif\if@colour\@colourtrue
\DeclareOption{nocolour}{\@colourfalse}
\ExecuteOptions{a4paper,11pt,colour,final}
\ProcessOptions\relax
```

```
\input{size1\@ptsize.clo}
\RequirePackage{color}
\RequirePackage{graphicx}
\RequirePackage{ifthen}
\RequirePackage{marvosym}
\addtolength{\oddsidemargin}{-54pt}
\addtolength{\textwidth}{109pt}
\addtolength{\topmargin}{-70pt}
\addtolength{\textheight}{122pt}
\addtolength{\marginparsep}{-5pt}
\addtolength{\marginparwidth}{-10pt}
\RequirePackage{url}
\RequirePackage{hyperref}
\hypersetup{%
  breaklinks,
  baseurl       = http://,%
  pdfborder     = 0 0 0,%
  pdfpagemode   = UseNone,%
  pdfstartpage  = 1}
\AtEndOfClass{%
  \AtBeginDocument{%
    \hypersetup{%
      pdfauthor     = \@firstname~\@familyname,%
      pdftitle      = \@title,%
      pdfsubject    = \@firstname~\@familyname,%
      pdfkeywords   = \@resumename~\@firstname~\@familyname}}}
\urlstyle{tt}
\RequirePackage{fancyhdr}
\fancypagestyle{plain}{%
  \renewcommand{\headrulewidth}{0pt}
  \renewcommand{\footrulewidth}{0pt}
  \fancyhf{}}
\pagestyle{plain}
\setlength\lineskip{1\p@}
\setlength\normallineskip{1\p@}
\renewcommand\baselinestretch{}
\setlength{\parindent}{0pt}
\setlength{\parskip}{0pt}
\setlength\columnsep{10\p@}
\setlength\columnseprule{0\p@}
\pagestyle{empty}
\pagenumbering{arabic}
\raggedbottom
\onecolumn
\providecommand*{\listitemsymbol}{\textbullet}
\providecommand*{\addresssymbol}{}
\providecommand*{\mobilesymbol}{\Mobilefone}
\providecommand*{\phonesymbol}{\Telefon}
\providecommand*{\faxsymbol}{\FAX}
\providecommand*{\emailsymbol}{\Letter}
```

```
\definecolor{firstnamecolor}{rgb}{0,0,0}
\def\firstnamecolour#1{\gdef\@firstnamecolour{\addfontfeature{Color=#1}}}
\def\familynamecolour#1{\gdef\@familynamecolour{\addfontfeature{Color=#1}}}
\def\titlecolour#1{\gdef\@titlecolour{\addfontfeature{Color=#1}}}
\def\addresscolour#1{\gdef\@addresscolour{\addfontfeature{Color=#1}}}
\def\quotecolour#1{\gdef\@quotecolour{\addfontfeature{Color=#1}}}
\def\sectiontitlecolour#1{\gdef\@sectiontitlecolour{\addfontfeature{Color=#1}}}
\definecolor{sectionrectanglecolor}{rgb}{0,0,0}
\def\subsectioncolour#1{\gdef\@subsectioncolour{\addfontfeature{Color=#1}}}
\def\hintcolour#1{\gdef\@hintcolour{\addfontfeature{Color=#1}}}
\providecommand*{\firstnamefont}{}
\providecommand*{\familynamefont}{}
\providecommand*{\titlefont}{}
\providecommand*{\addressfont}{}
\providecommand*{\quotefont}{}
\providecommand*{\sectionfont}{}
\providecommand*{\subsectionfont}{}
\providecommand*{\hintfont}{\small}
\providecommand*{\firstnamestyle}[1]{{\firstnamefont\@firstnamecolour#1}}
\providecommand*{\familynamestyle}[1]{{\familynamefont\@familynamecolour#1}}
\providecommand*{\titlestyle}[1]{{\titlefont\@titlecolour#1}}
\providecommand*{\addresstyle}[1]{{\addressfont\@addresscolour#1}}
\providecommand*{\quotestyle}[1]{{\quotefont\@quotecolour#1}}
\providecommand*{\sectionstyle}[1]{{\sectionfont\@sectiontitlecolour#1}}
\providecommand*{\subsectionstyle}[1]{{\subsectionfont\@subsectioncolour#1}}
\providecommand*{\hintstyle}[1]{{\hintfont\@hintcolour#1}}
\newcommand*{\cvtheme}[2][]{
  \def\@cvtheme{#2}
  \def\@cvthemeoptions{#1}}
\cvtheme{bidi-casual}
\AtBeginDocument{\RequirePackage[\@cvthemeoptions]{cvtheme\@cvtheme}}
\newcommand*{\resumename}[1]{\def\@resumename{#1}}
\newcommand*{\firstname}[1]{\def\@firstname{#1}}
\newcommand*{\familyname}[1]{\def\@familyname{#1}}
\renewcommand*{\title}[1]{\def\@title{#1}}
\newcommand*{\address}[1]{\def\@address{#1}}
\newcommand*{\mobile}[1]{\def\@mobile{#1}}
\newcommand*{\phone}[1]{\def\@phone{#1}}
\renewcommand*{\fax}[1]{\def\@fax{#1}}
\newcommand*{\email}[1]{\def\@email{#1}}
\newcommand*{\extrainfo}[1]{\def\@extrainfo{#1}}
\def\@photowidth{0pt}
\newcommand*{\photo}[2][64pt]{\def\@photowidth{#1}\def\@photo{#2}}
\newcommand*{\quote}[1]{\def\@quote{#1}}
\newlength{\quotewidth}
\newlength{\hintscolumnwidth}
\newlength{\separatorcolumnwidth}
\setlength{\separatorcolumnwidth}{0.025\textwidth}
\newlength{\maincolumnwidth}
\newlength{\doubleitemmaincolumnwidth}
```

```
\newlength{\listitemsymbolwidth}
\settowidth{\listitemsymbolwidth}{\listitemsymbol{}~}
\newlength{\listitemmaincolumnwidth}
\newlength{\listdoubleitemmaincolumnwidth}
\newcommand*{\recomputethemelengths}{}
\newcommand*{\recomputelengths}{%
\setlength{\quotewidth}{0.65\textwidth}%
\setlength{\maincolumnwidth}{\textwidth}%
\addtolength{\maincolumnwidth}{-\separatorcolumnwidth}%
\addtolength{\maincolumnwidth}{-\hintscolumnwidth}%
\setlength{\listitemmaincolumnwidth}{\maincolumnwidth}%
\addtolength{\listitemmaincolumnwidth}{-\listitemsymbolwidth}%
\setlength{\doubleitemmaincolumnwidth}{\maincolumnwidth}%
\addtolength{\doubleitemmaincolumnwidth}{-\hintscolumnwidth}%
\addtolength{\doubleitemmaincolumnwidth}{-\separatorcolumnwidth}%
\setlength{\doubleitemmaincolumnwidth}{0.5\doubleitemmaincolumnwidth}%
\setlength{\listdoubleitemmaincolumnwidth}{\maincolumnwidth}%
\addtolength{\listdoubleitemmaincolumnwidth}{-\listitemsymbolwidth}%
\setlength{\listdoubleitemmaincolumnwidth}{0.475\listdoubleitemmaincolumnwidth}%
\renewcommand{\headwidth}{\textwidth}%
\recomputethemelengths}
\setlength{\hintscolumnwidth}{0.15\textwidth}
\recomputelengths
\title{}
\renewcommand*{\maketitle}{}
\newcommand*{\section}[1]{%
\vspace*{2.5ex \@plus 1ex \@minus .2ex}%
  \phantomsection{}%
  \addcontentsline{toc}{part}{#1}%
  \parbox[m]{\hintscolumnwidth}{\bidi@raggedleft\hintfont{\leavevmode\color{sectionrectangle
  \hspace{\separatorcolumnwidth}%
  \parbox[m]{\maincolumnwidth}{\sectionstyle{#1}}\\[1ex]}
\newcommand*{\subsection}[1]{%
  \cvline[0.45em]{}{\subsectionstyle{#1}}}
\newcommand*{\cvline}[3][.25em]{%
  \begin{tabular}{@{}p{\hintscolumnwidth}@{\hspace{\separatorcolumnwidth}}p{\maincolumnwidth}
    \bidi@raggedleft\hintfont{#2} &{#3}%
  \end{tabular}\\[#1]}
\newcommand*{\cvdoubleitem}[4]{%
 \cvline{#1}{\begin{minipage}[t]{\doubleitemmaincolumnwidth}#2\end{minipage}%
 \hfill%
 \begin{minipage}[t]{\hintscolumnwidth}\bidi@raggedleft\hintfont{#3}\end{minipage}\hspace*{\s
\newcommand*{\cvlistitem}[2][\listitemsymbol{}]{%
  \cvline[0pt]{}{#1~\begin{minipage}[t]{\listitemmaincolumnwidth}#2\end{minipage}}}
\newcommand*{\cvlistdoubleitem}[3][\listitemsymbol{}]{%
  \cvline[0pt]{}{#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#2\end{minipage}%
  \hfill%
  \ifthenelse{\equal{#3}{}}%
    {}%
    {#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#3\end{minipage}}}}
```

```
\newcommand*{\cventry}[6]{%
  \cvline{#1}{%
    {\bfseries#2}%
    \ifx#3\else{, {\slshape#3}}\fi%
    \ifx#4\else{, #4}\fi%
    \ifx#5\else{, #5}\fi%
    .%
    \ifx#6\else{\newline{}\begin{minipage}[t]{\linewidth}\small#6\end{minipage}}\fi
    }}%
\newcommand*{\cvlanguage}[3]{%
  \cvline{#1}{\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#2}\end{minipage}\hfill\begin{
\newcommand*{\cvcomputer}[4]{%
  \cvdoubleitem{#1}{\small#2}{#3}{\small#4}}
\newcommand*{\link}[2][]{%
  \ifthenelse{\equal{#1}{}}%
    {\href{#2}{#2}}%
    {\href{#2}{#1}}}
\newcommand*{\httplink}[2][]{%
  \ifthenelse{\equal{#1}{}}%
    {\href{http://#2}{#2}}%
    {\href{http://#2}{#1}}}
\newcommand*{\emaillink}[2][]{%
  \ifthenelse{\equal{#1}{}}%
    {\href{mailto:#2}{#2}}%
    {\href{mailto:#2}{#1}}}
\newif\if@displaypagenumbers\@displaypagenumberstrue
\newcommand*{\nopagenumbers}{\@displaypagenumbersfalse}
\AtBeginDocument{%
  \if@displaypagenumbers%
    \@ifundefined{r@lastpage}{}{%
      \ifthenelse{\pageref{lastpage} > 1}{%
      \fancypagestyle{plain}{%
        \fancyfoot[r]{\beginL\addressfont\@quotecolour\footnotesize\thepage\beginL/\endL\page
      \pagestyle{plain}}{}}%
  \AtEndDocument{\label{lastpage}}%
  \fi}
\newlength{\bibindent}
\setlength{\bibindent}{1.5em}
\newcommand*{\bibliographyitemlabel}{\includegraphics{bibitem.pdf}}
\newenvironment{thebibliography}[1]%
  {%
    \section{\refname}%
    \small%
    \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
    \begin{list}{\bibliographyitemlabel}%
      {%
        \setlength{\topsep}{0pt}%
        \setlength{\labelwidth}{\hintscolumnwidth}%
        \setlength{\labelsep}{\separatorcolumnwidth}%
        \leftmargin\labelwidth%
```

```
        \advance\leftmargin\labelsep%
        \@openbib@code%
        \usecounter{enumiv}%
        \let\p@enumiv\@empty%
        \renewcommand\theenumiv{\@arabic\c@enumiv}}%
        \sloppy\clubpenalty4000\widowpenalty4000%
  }%
  {%
    \def\@noitemerr{\@latex@warning{Empty ‘thebibliography’ environment}}%
    \end{list}%
  }
\newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
\let\@openbib@code\@empty
```

7.19 biditools.sty

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{biditools}[2013/04/10 v0.2 Programming tools for bidi package]
\providecommand{\@bidi@saveprimitive}[2]{\begingroup\escapechar‘\\\relax
  \edef\@tempa{\string#1}\edef\@tempb{\meaning#1}%
  \ifx\@tempa\@tempb \global\let#2#1%
  \else
    \edef\@tempb{\meaning#2}%
    \ifx\@tempa\@tempb
    \else
      \@latex@error{Unable to properly define \string#2; primitive
      \noexpand#1no longer primitive}\@eha
    \fi
  \fi
  \endgroup}
\def\@tagsextension{clo}
\def\@definitionfileextension{def}
\def\@iftagsloaded{\@ifl@aded\@tagsextension}
\def\@ifdefinitionfileloaded{\@ifl@aded\@definitionfileextension}
\def\eqnewif#1#2{%
  \count@\escapechar \escapechar\m@ne
    \let#1\iffalse
    \let#2\iffalse
    \eq@if#1#2\iftrue
    \eq@if#1#2\iffalse
  \escapechar\count@}
\def\eq@if#1#2#3{%
  \expandafter\def\csname\expandafter\@gobbletwo\string#1%
                     \expandafter\@gobbletwo\string#3\endcsname
                        {\let#1#3%
                        \let#2#3}%
  \expandafter\def\csname\expandafter\@gobbletwo\string#2%
                     \expandafter\@gobbletwo\string#3\endcsname
                        {\let#2#3%
                        \let#1#3}}
```

```
\newcommand*{\if@bidi@csdef}[1]{%
  \ifcsname#1\endcsname
    \expandafter\@firstoftwo
  \else
    \expandafter\@secondoftwo
  \fi}
\newcommand*{\if@bidi@csundef}[1]{%
  \ifcsname#1\endcsname
    \expandafter\ifx\csname#1\endcsname\relax
      \expandafter\expandafter
      \expandafter\@firstoftwo
    \else
      \expandafter\expandafter
      \expandafter\@secondoftwo
    \fi
  \else
    \expandafter\@firstoftwo
  \fi}
\newcommand{\if@bidi@def}[1]{%
  \ifdefined#1%
    \expandafter\@firstoftwo
  \else
    \expandafter\@secondoftwo
  \fi}
\newcommand{\if@bidi@undef}[1]{%
  \ifdefined#1%
    \ifx#1\relax
      \expandafter\expandafter
      \expandafter\@firstoftwo
    \else
      \expandafter\expandafter
      \expandafter\@secondoftwo
    \fi
  \else
    \expandafter\@firstoftwo
  \fi}
\newcommand{\if@bidi@blank}[1]{% from url.sty
  \bidi@ifblank@i#1&&\@secondoftwo\@firstoftwo:}
\long\def\bidi@ifblank@i#1#2&#3#4#5:{#4}
\newcommand{\bidi@notblank}[1]{%
  \bidi@ifblank@i#1&&\@firstoftwo\@secondoftwo:}
\newcommand{\if@bidi@defmacro}{}
\long\edef\if@bidi@defmacro#1{%
  \noexpand\expandafter\noexpand\bidi@ifdefmacro
  \noexpand\meaning#1\detokenize{macro}:&}
\edef\bidi@ifdefmacro{%
  \def\noexpand\bidi@ifdefmacro##1\detokenize{macro}:##2&}
\bidi@ifdefmacro{\bidi@notblank{#2}}
\newcommand*{\if@bidi@csmacro}[1]{%
  \if@bidi@csdef{#1}
```

```
    {\expandafter\if@bidi@defmacro\csname#1\endcsname}
    {\@secondoftwo}}
\newcommand{\if@bidi@defprimitive}[1]{%
  \ifprimitive#1%
    \expandafter\@firstoftwo
  \else
    \expandafter\@secondoftwo
  \fi}
\newcommand{\if@bidi@csprimitive}[1]{%
 \begingroup\expandafter\expandafter\expandafter\endgroup%
  \expandafter\ifprimitive\csname#1\endcsname%
    \expandafter\@firstoftwo
  \else
    \expandafter\@secondoftwo
  \fi}
\newcommand*{\bidi@csdefcs}[2]{%
\expandafter\@ifdefinable  \csname#1\endcsname{%
\expandafter\def\csname#1\expandafter\endcsname{\csname#2\endcsname}}}
\newcommand*{\bidi@csletcs}[2]{%
\expandafter\@ifdefinable  \csname#1\endcsname{%
\expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname}}
\newcommand*{\bidi@cslet}[2]{%
\expandafter\@ifdefinable  \csname#1\endcsname{%
\expandafter\let\csname#1\endcsname#2}}
\newcommand{\bidi@namelongdef}[1]{%
  \long\expandafter\def\csname #1\endcsname}
\def\bidi@ensure@newcommand{\@star@or@long\bidi@ensure@new@command}
\def\bidi@ensure@new@command#1{%
  \begingroup \escapechar\m@ne\xdef\@gtempa{{\string#1}}\endgroup
  \expandafter\if@bidi@csundef\@gtempa
     {\new@command#1}{\relax%
  \let\@ifdefinable\@rc@ifdefinable%
  \new@command#1}}
\def\bidi@ensure@newlength#1{\if@bidi@undef#1{\newskip#1}{}}

\protected\def\bidi@error{\PackageError{bidi}}
\protected\def\bidi@warning{\PackageWarning{bidi}}
\protected\def\bidi@info{\PackageInfo{bidi}}

\newcommand*{\bidi@newrobustcmd}{}
\protected\def\bidi@newrobustcmd{\@star@or@long\bidi@new@command}

\def\bidi@new@command#1{\@testopt{\bidi@newcommand#1}0}

\def\bidi@newcommand#1[#2]{%
  \@ifnextchar[%]
    {\bidi@xargdef#1[#2]}
    {\ifx\l@ngrel@x\relax
       \let\l@ngrel@x\protected
     \else
```

```
      \protected\def\l@ngrel@x{\protected\long}%
    \fi
    \@argdef#1[#2]}}

\long\def\bidi@xargdef#1[#2][#3]#4{%
  \@ifdefinable#1{%
    \expandafter\protected
    \expandafter\def
    \expandafter#1%
    \expandafter{%
      \expandafter\@testopt
      \csname\string#1\endcsname{#3}}%
    \expandafter\@yargdef\csname\string#1\endcsname\tw@{#2}{#4}}}

\bidi@newrobustcmd*{\bidi@renewrobustcmd}{\@star@or@long\bidi@renew@command}

\def\bidi@renew@command#1{%
  \if@bidi@undef{#1}
     {\bidi@error{\string#1 undefined}\@ehc}
     {}%
  \let\@ifdefinable\@rc@ifdefinable
  \bidi@new@command#1}



\bidi@newrobustcmd*{\bidi@providerobustcmd}{\@star@or@long\bidi@provide@command}

\def\bidi@provide@command#1{%
  \if@bidi@undef{#1}
    {\def\reserved@a{\bidi@new@command#1}}
    {\def\reserved@a{\bidi@renew@command\reserved@a}}%
  \reserved@a}

\newcommand*{\bidi@csuse}[1]{%
  \ifcsname#1\endcsname
    \csname#1\expandafter\endcsname
  \fi}

\newcommand{\bidi@expandonce}[1]{%
  \unexpanded\expandafter{#1}}

\def\bidi@protected{%
  \let\@@protect\protect
  \let\protect\@unexpandable@protect
  \afterassignment\restore@protect}

\bidi@newrobustcmd{\bidi@appto}[2]{%
  \if@bidi@undef{#1}
    {\edef#1{\unexpanded{#2}}}
    {\edef#1{\bidi@expandonce#1\unexpanded{#2}}}}
```

```
\bidi@newrobustcmd{\bidi@eappto}[2]{%
  \if@bidi@undef{#1}
    {\edef#1{#2}}
    {\edef#1{\bidi@expandonce#1#2}}}
\bidi@newrobustcmd{\bidi@gappto}[2]{%
  \if@bidi@undef{#1}
    {\xdef#1{\unexpanded{#2}}}
    {\xdef#1{\bidi@expandonce#1\unexpanded{#2}}}}
\bidi@newrobustcmd{\bidi@xappto}[2]{%
  \if@bidi@undef{#1}
    {\xdef#1{#2}}
    {\xdef#1{\bidi@expandonce#1#2}}}

\bidi@newrobustcmd*{\bidi@protected@eappto}{\bidi@protected\bidi@eappto}
\bidi@newrobustcmd*{\bidi@protected@xappto}{\bidi@protected\bidi@xappto}


\bidi@newrobustcmd{\bidi@preto}[2]{%
  \if@bidi@undef{#1}
    {\edef#1{\unexpanded{#2}}}
    {\edef#1{\unexpanded{#2}\bidi@expandonce#1}}}
\bidi@newrobustcmd{\bidi@epreto}[2]{%
  \if@bidi@undef{#1}
    {\edef#1{#2}}
    {\edef#1{#2\bidi@expandonce#1}}}
\bidi@newrobustcmd{\bidi@gpreto}[2]{%
  \if@bidi@undef{#1}
    {\xdef#1{\unexpanded{#2}}}
    {\xdef#1{\unexpanded{#2}\bidi@expandonce#1}}}
\bidi@newrobustcmd{\bidi@xpreto}[2]{%
  \if@bidi@undef{#1}
    {\xdef#1{#2}}
    {\xdef#1{#2\bidi@expandonce#1}}}

\bidi@newrobustcmd*{\bidi@protected@epreto}{\bidi@protected\bidi@epreto}
\bidi@newrobustcmd*{\bidi@protected@xpreto}{\bidi@protected\bidi@xpreto}


\bidi@newrobustcmd*{\bidi@csappto}[1]{\expandafter\bidi@appto\csname#1\endcsname}
\bidi@newrobustcmd*{\bidi@cseappto}[1]{\expandafter\bidi@eappto\csname#1\endcsname}
\bidi@newrobustcmd*{\bidi@csgappto}[1]{\expandafter\bidi@gappto\csname#1\endcsname}
\bidi@newrobustcmd*{\bidi@csxappto}[1]{\expandafter\bidi@xappto\csname#1\endcsname}
\bidi@newrobustcmd*{\bidi@protected@cseappto}{\bidi@protected\bidi@cseappto}
\bidi@newrobustcmd*{\bidi@protected@csxappto}{\bidi@protected\bidi@csxappto}


\bidi@newrobustcmd*{\bidi@cspreto}[1]{\expandafter\bidi@preto\csname#1\endcsname}
```

```
\bidi@newrobustcmd*{\bidi@csepreto}[1]{\expandafter\bidi@epreto\csname#1\endcsname}
\bidi@newrobustcmd*{\bidi@csgpreto}[1]{\expandafter\bidi@gpreto\csname#1\endcsname}
\bidi@newrobustcmd*{\bidi@csxpreto}[1]{\expandafter\bidi@xpreto\csname#1\endcsname}
\bidi@newrobustcmd*{\bidi@protected@csepreto}{\bidi@protected\bidi@csepreto}
\bidi@newrobustcmd*{\bidi@protected@csxpreto}{\bidi@protected\bidi@csxpreto}


\bidi@newrobustcmd{\if@bidi@patchable}{%
  \bidi@dbg@trce\if@bidi@patchable
  \begingroup
  \@makeother\#%
  \@ifstar\bidi@ifpatchable@i\bidi@ifpatchable}

\long\def\bidi@ifpatchable#1#2{%
  \endgroup
  \bidi@dbg@init#1%
  \if@bidi@undef{#1}
    {\bidi@dbg@fail{def}\@secondoftwo}
    {\bidi@dbg@info{def}%
     \if@bidi@defmacro{#1}
       {\bidi@dbg@info{mac}%
        \bidi@ifscanable{#1}
          {\bidi@ifhashcheck{#2}
             {\bidi@dbg@info{tok}%
              \bidi@ifpattern#1{#2}
                 {\bidi@dbg@info{pat}%
                  \bidi@dbg@info{pos}\@firstoftwo}
                 {\bidi@dbg@fail{pat}\@secondoftwo}}
             {\bidi@dbg@fail{hsh}\@secondoftwo}}
          {\bidi@dbg@fail{tok}\@secondoftwo}}
       {\bidi@dbg@fail{mac}\@secondoftwo}}}

\long\def\bidi@ifpatchable@i#1{%
  \endgroup
  \bidi@dbg@init#1%
  \if@bidi@undef{#1}
    {\bidi@dbg@fail{def}\@secondoftwo}
    {\bidi@dbg@info{def}%
     \if@bidi@defmacro{#1}
       {\bidi@dbg@info{mac}%
        \if@bidi@defparam{#1}
          {\bidi@dbg@info{prm}%
           \bidi@ifscanable{#1}
             {\bidi@dbg@info{tok}%
              \bidi@dbg@info{pos}\@firstoftwo}
             {\bidi@dbg@fail{tok}\@secondoftwo}}
          {\bidi@dbg@info{prl}%
           \if@bidi@defprotected{#1}
             {\bidi@dbg@info{pro}}
```

```
              {}%
            \bidi@dbg@info{pos}\@firstoftwo}}
        {\bidi@dbg@fail{mac}\@secondoftwo}}

\bidi@newrobustcmd*{\bidi@patchcmd}{%
  \bidi@dbg@trce\bidi@patchcmd
  \begingroup
  \@makeother\#%
  \bidi@@patchcmd}

\newcommand{\bidi@@patchcmd}[4][########1]{%
  \bidi@ifpatchable#2{#3}
    {\bidi@dbg@succ{ret}%
     \begingroup
     \edef\bidi@resrvda{%
       \def\noexpand\bidi@resrvda####1\detokenize{macro:}####2->####3&{%
         #1\def\string\bidi@resrvda\space####2{\noexpand\bidi@resrvdb####3&}}%
       \def\noexpand\bidi@resrvdb####1\detokenize{#3}####2&{%
         ####1\detokenize{#4}####2}%
       \edef\noexpand\bidi@resrvda{%
         \noexpand\bidi@resrvda\meaning#2&}}%
     \bidi@resrvda
     \bidi@patchcmd@scantoks\bidi@resrvda
     \let#2\bidi@resrvda
     \bidi@undef\bidi@resrvda
     \@firstoftwo}
    {\@secondoftwo}}

\def\bidi@patchcmd@scantoks#1{%
  \edef\bidi@resrvda{\endgroup
    \unexpanded{\makeatletter\scantokens}{#1}%
    \catcode\number`\@=\the\catcode`\@\relax}%
  \bidi@resrvda}

\newcommand\bidi@isloaded[2][]{
  \expandafter\ifx\csname if@bidi@#2loaded@\endcsname\relax
    \expandafter\newif\csname if@bidi@#2loaded@\endcsname
  \fi
  \@ifpackageloaded{#2}
    {\csname @bidi@#2loaded@true\endcsname #1}
    {\csname @bidi@#2loaded@false\endcsname}}

\protected\def\bidi@ifscanable#1{%
  \begingroup
  \edef\bidi@resrvda{%
    \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
      ####1\def\string\bidi@resrvda####2{####3}}%
    \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda\meaning#1&}}%
  \bidi@resrvda
  \makeatletter
```

```
  \scantokens\expandafter{\bidi@resrvda}%
  \expandafter\endgroup\ifx#1\bidi@resrvda
    \expandafter\@firstoftwo
  \else
    \expandafter\@secondoftwo
  \fi}


\protected\long\def\bidi@ifhashcheck#1{%
  \begingroup
  \edef\bidi@resrvda{\detokenize{#1}}%
  \expandafter\endgroup
  \expandafter\bidi@ifhashcheck@i\meaning\bidi@resrvda&}

\edef\bidi@ifhashcheck@i#1&{%
  \noexpand\expandafter
  \noexpand\bidi@ifhashcheck@ii
  \noexpand\strip@prefix#1\string#\string#&}

\edef\bidi@ifhashcheck@ii{%
  \def\noexpand\bidi@ifhashcheck@ii##1\string#\string###2&}
\bidi@ifhashcheck@ii{\if@bidi@blank{#2}}


\protected\long\def\bidi@ifpattern#1#2{%
  \begingroup
  \edef\bidi@resrvda{%
    \def\noexpand\bidi@resrvda####1\detokenize{#2}####2&{%
      \endgroup\noexpand\noexpand\noexpand\if@bidi@blank{####2}}%
    \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda
      \expandafter\strip@prefix\meaning#1\detokenize{#2}&}%
    \noexpand\bidi@resrvda}
  \bidi@resrvda\@secondoftwo\@firstoftwo}


\newcommand{\if@bidi@defparam}{}
\long\edef\if@bidi@defparam#1{%
  \noexpand\expandafter\noexpand\bidi@ifdefparam
  \noexpand\meaning#1\detokenize{macro}:->&}
\edef\bidi@ifdefparam{%
  \def\noexpand\bidi@ifdefparam##1\detokenize{macro}:##2->##3&}
\bidi@ifdefparam{\bidi@notblank{#2}}


\newcommand{\if@bidi@defprotected}{}
\long\edef\if@bidi@defprotected#1{%
  \noexpand\expandafter\noexpand\bidi@ifdefprotected
  \noexpand\meaning#1\string\protected&}
\edef\bidi@ifdefprotected{%
  \def\noexpand\bidi@ifdefprotected##1\string\protected##2&}
```

```
\bidi@ifdefprotected{\bidi@notblank{#2}}


\bidi@newrobustcmd{\bidi@undef}[1]{\let#1\bidi@undefined}

\let\bidi@dbg@trce\@gobble
\let\bidi@dbg@init\@gobble
\let\bidi@dbg@info\@gobble
\let\bidi@dbg@succ\@gobble
\let\bidi@dbg@fail\@gobble



\bidi@newrobustcmd*{\bidi@apptocmd}{%
  \bidi@dbg@trce\bidi@apptocmd
  \begingroup
  \@makeother\#%
  \bidi@hooktocmd\bidi@append}



\bidi@newrobustcmd*{\bidi@pretocmd}{%
  \bidi@dbg@trce\bidi@pretocmd
  \begingroup
  \@makeother\#%
  \bidi@hooktocmd\bidi@prepend}

\long\def\bidi@hooktocmd#1#2#3{%
  \endgroup
  \bidi@dbg@init#2%
  \if@bidi@undef{#2}
    {\bidi@dbg@fail{def}\@secondoftwo}
    {\bidi@dbg@info{def}%
     \if@bidi@defmacro{#2}
       {\bidi@dbg@info{mac}%
        \if@bidi@defparam{#2}
          {\bidi@dbg@info{prm}%
           \bidi@ifscanable{#2}
             {\bidi@ifhashcheck{#3}
                {\bidi@dbg@info{tok}%
                 \bidi@dbg@succ{ret}%
                 \bidi@hooktocmd@i#1#2{#3}%
                 \@firstoftwo}
                {\bidi@dbg@fail{hsh}\@secondoftwo}}
             {\bidi@dbg@fail{tok}\@secondoftwo}}
          {\bidi@dbg@info{prl}%
           \if@bidi@defprotected{#2}
             {\bidi@dbg@info{pro}%
              \bidi@dbg@succ{red}%
              \protected}
```

```
              {\bidi@dbg@succ{red}}%
            \edef#2{#1{\bidi@expandonce#2}{\unexpanded{#3}}}%
            \@firstoftwo}}
        {\bidi@dbg@fail{mac}\@secondoftwo}}}

\long\def\bidi@hooktocmd@i#1#2#3{%
  \begingroup
  \edef\bidi@resrvda{%
    \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
      ####1\def\string\bidi@resrvda\space####2{#1{####3}{\detokenize{#3}}}}%
    \edef\noexpand\bidi@resrvda{%
      \noexpand\bidi@resrvda\meaning#2&}}%
  \bidi@resrvda
  \bidi@patchcmd@scantoks\bidi@resrvda
  \let#2\bidi@resrvda
  \bidi@undef\bidi@resrvda}

\long\def\bidi@append#1#2{#1#2}
\long\def\bidi@prepend#1#2{#2#1}

\bidi@newrobustcmd*{\bidi@AtEndPreamble}{\bidi@gappto\bidi@endpreamblehook}
\newcommand*{\bidi@endpreamblehook}{}

\bidi@preto\document{%
  \endgroup
  \let\bidi@AtEndPreamble\@firstofone
  \bidi@endpreamblehook
  \protected\def\bidi@AtEndPreamble{\@notprerr\@gobble}%
  \bidi@undef\bidi@endpreamblehook
  \begingroup}

\bidi@newrobustcmd*{\bidi@AfterPreamble}{\AtBeginDocument}
\bidi@AtEndPreamble{\let\bidi@AfterPreamble\@firstofone}

\bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\bidi@gappto\bidi@afterendpreamblehook}
\newcommand*{\bidi@afterendpreamblehook}{}

\bidi@appto\document{%
  \let\bidi@AfterEndPreamble\@firstofone
  \bidi@afterendpreamblehook
  \protected\def\bidi@AfterEndPreamble{\@notprerr\@gobble}%
  \bidi@undef\bidi@afterendpreamblehook
  \ignorespaces}

\AtEndDocument{\let\bidi@AfterEndPreamble\@gobble}

\bidi@newrobustcmd*{\bidi@AfterEndDocument}{\bidi@gappto\bidi@afterenddocumenthook}
\newcommand*{\bidi@afterenddocumenthook}{}

\bidi@patchcmd\enddocument
```

```
  {\deadcycles}
  {\let\bidi@AfterEndDocument\@firstofone
   \bidi@afterenddocumenthook
   \deadcycles}
  {}
  {\let\bidi@@end\@@end
   \def\@@end{%
     \let\bidi@AfterEndDocument\@firstofone
     \bidi@afterenddocumenthook
     \bidi@@end}}

\bidi@newrobustcmd{\bidi@AtBeginEnvironment}[1]{%
  \bidi@csgappto{@begin@#1@hook}}

\bidi@patchcmd\begin
  {\csname #1\endcsname}
  {\bidi@csuse{@begin@#1@hook}%
   \csname #1\endcsname}
  {}
  {\bidi@warning{%
     Patching '\string\begin' failed!\MessageBreak
     '\string\bidi@AtBeginEnvironment' will not work\@gobble}}



\bidi@newrobustcmd{\bidi@AtEndEnvironment}[1]{%
  \bidi@csgappto{@end@#1@hook}}

\bidi@patchcmd\end
  {\csname end#1\endcsname}
  {\bidi@csuse{@end@#1@hook}%
   \csname end#1\endcsname}
  {}
  {\bidi@warning{%
     Patching '\string\end' failed!\MessageBreak
     '\string\bidi@AtEndEnvironment' will not work\@gobble}}



\bidi@newrobustcmd{\bidi@BeforeBeginEnvironment}[1]{%
  \bidi@csgappto{@beforebegin@#1@hook}}

\bidi@pretocmd\begin
  {\bidi@csuse{@beforebegin@#1@hook}}
  {}
  {\bidi@warning{%
     Patching '\string\begin' failed!\MessageBreak
     '\string\bidi@BeforeBeginEnvironment' will not work\@gobble}}

```

```
2791
2792 \bidi@newrobustcmd{\bidi@AfterEndEnvironment}[1]{%
2793   \bidi@csgappto{@afterend@#1@hook}}
2794
2795 \bidi@patchcmd\end
2796   {\if@ignore}
2797   {\bidi@csuse{@afterend@#1@hook}%
2798    \if@ignore}
2799   {}
2800   {\bidi@warning{%
2801      Patching '\string\end' failed!\MessageBreak
2802      '\string\bidi@AfterEndEnvironment' will not work\@gobble}}
```

7.20 bidituftefloat.sty

```
2803 \NeedsTeXFormat{LaTeX2e}
2804 \ProvidesPackage{bidituftefloat}[2011/06/14 v0.1
2805 bidi implementation of tufte float]
2806 \RequirePackage{xifthen}
2807 \newcommand{\@bidituftefloat@pkgname}{bidituftefloat}
2808 \newcommand{\bidituftefloatError}[2]{\PackageError{\@bidituftefloat@pkgname}{#1}{#2}}
2809 \newcommand{\bidituftefloatDebugInfoNL}[1]{\ifthenelse{\boolean{@bidituftefloat@debug}}{\bidi
2810 \newcommand{\bidituftefloatInfoNL}[1]{\PackageInfo{\@bidituftefloat@pkgname}{#1\@gobble}}
2811 \newboolean{@bidituftefloat@RTLgeometry}
2812 \setboolean{@bidituftefloat@RTLgeometry}{true}
2813 \DeclareOption{RTLgeometry}{\setboolean{@bidituftefloat@RTLgeometry}{true}}
2814 \DeclareOption{LTRgeometry}{\setboolean{@bidituftefloat@RTLgeometry}{false}}
2815 \newboolean{@bidituftefloat@afourpaper}
2816 \DeclareOption{a4paper}{\setboolean{@bidituftefloat@afourpaper}{true}}
2817 \newboolean{@bidituftefloat@bfivepaper}
2818 \DeclareOption{b5paper}{\setboolean{@bidituftefloat@bfivepaper}{true}}
2819 \newboolean{@bidituftefloat@symmetric}
2820 \newboolean{@bidituftefloat@twoside}
2821 \DeclareOption{twoside}{%
2822 \@twosidetrue  \@mparswitchtrue%
2823 \setboolean{@bidituftefloat@twoside}{true}%
2824 \setboolean{@bidituftefloat@symmetric}{true}%
2825 }
2826 \DeclareOption{oneside}{%
2827 \@twosidefalse  \@mparswitchfalse%
2828 \setboolean{@bidituftefloat@twoside}{false}%
2829 \setboolean{@bidituftefloat@symmetric}{false}%
2830 }
2831 \@ifclassloaded{book}{\ExecuteOptions{twoside}}{}
2832 \newboolean{@bidituftefloat@debug}
2833 \newcommand*{\@bidituftefloat@caption@justification}{\@bidituftefloat@justification@autodetec
2834 \ProcessOptions
2835 %% Globally sets the length
2836 \newcommand*{\gsetlength}[2]{%
2837   \setlength{#1}{#2}%
```

```
  \global#1=#1\relax%
}
%% Globally sets a boolean
\newcommand*{\gsetboolean}[2]{% based on code from ifthen pkg
  \lowercase{\def\@tempa{#2}}%
  \@ifundefined{@tempswa\@tempa}%
    {\PackageError{ifthen}{You can only set a boolean to `true' or `false'}\@ehc}%
    {\@ifundefined{#1\@tempa}%
      {\PackageError{ifthen}{Boolean #1 undefined}\@ehc}%
      {\global\csname#1\@tempa\endcsname}%
    }%
}
%% Set the font sizes and baselines to match bidituftefloat's books
\renewcommand\normalsize{%
   \@setfontsize\normalsize\@xpt{14}%
   \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
   \abovedisplayshortskip \z@ \@plus3\p@
   \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
   \belowdisplayskip \abovedisplayskip
   \let\@listi\@listI}
\normalbaselineskip=14pt
\normalsize
\renewcommand\footnotesize{%
   \@setfontsize\footnotesize\@viiipt{10}%
   \abovedisplayskip 6\p@ \@plus2\p@ \@minus4\p@
   \abovedisplayshortskip \z@ \@plus\p@
   \belowdisplayshortskip 3\p@ \@plus\p@ \@minus2\p@
   \def\@listi{\leftmargin\leftmargini
               \topsep 3\p@ \@plus\p@ \@minus\p@
               \parsep 2\p@ \@plus\p@ \@minus\p@
               \itemsep \parsep}%
   \belowdisplayskip \abovedisplayskip
}
%% Paragraph indentation and separation for marginal text
\newcommand{\@bidituftefloat@margin@par}{%
  \setlength{\RaggedRightParindent}{0.5pc}%
  \setlength{\JustifyingParindent}{0.5pc}%
  \setlength{\parindent}{0.5pc}%
  \setlength{\parskip}{0pt}%
}
\RequirePackage{ragged2e}
\ifthenelse{\boolean{@bidituftefloat@RTLgeometry}}{%
\RequirePackage[letterpaper,right=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpar
\ifthenelse{\boolean{@bidituftefloat@afourpaper}}
  {\geometry{a4paper,right=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpar
  {}
\ifthenelse{\boolean{@bidituftefloat@bfivepaper}}
  {\geometry{paperwidth=176mm,paperheight=250mm,right=14.66mm,top=13.88mm,textwidth=102.66mm,
  {}}{%
\RequirePackage[letterpaper,left=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpars
```

```
\ifthenelse{\boolean{@bidituftefloat@afourpaper}}
  {\geometry{a4paper,left=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpars
  {}
\ifthenelse{\boolean{@bidituftefloat@bfivepaper}}
  {\geometry{paperwidth=176mm,paperheight=250mm,left=14.66mm,top=13.88mm,textwidth=102.66mm,m
  {}}
\ifthenelse{\boolean{@bidituftefloat@symmetric}}
  {}
  {\geometry{asymmetric}}% forces internal LaTeX 'twoside'
\setlength\marginparpush{10pt}
%% Font for margin items
\newcommand{\@bidituftefloat@marginfont}{\normalfont\footnotesize}
\newcommand*{\@bidituftefloat@caption@font}{\@bidituftefloat@marginfont}
\newcommand*{\setcaptionfont}[1]{\renewcommand*{\@bidituftefloat@caption@font}{#1}}
\newcommand{\@bidituftefloat@justification}{\justifying}%
\setlength\abovedisplayskip{6pt plus 2pt minus 4pt}
\setlength\belowdisplayskip{6pt plus 2pt minus 4pt}
\newboolean{@bidituftefloat@changepage}
\IfFileExists{changepage.sty}{%
  \bidituftefloatDebugInfoNL{Found changepage.sty}
  \RequirePackage[strict]{changepage}
  \setboolean{@bidituftefloat@changepage}{true}
}{%
  \bidituftefloatDebugInfoNL{Found chngpage.sty}
  \RequirePackage[strict]{chngpage}
  \setboolean{@bidituftefloat@changepage}{false}
}
\newboolean{@bidituftefloat@odd@page}
\setboolean{@bidituftefloat@odd@page}{true}
\newcommand*{\@bidituftefloat@checkoddpage}{%
  \checkoddpage%
  \ifthenelse{\boolean{@bidituftefloat@changepage}}{%
    \ifoddpage%
      \setboolean{@bidituftefloat@odd@page}{true}%
    \else%
      \setboolean{@bidituftefloat@odd@page}{false}%
    \fi%
  }{%
    \ifcpoddpage%
      \setboolean{@bidituftefloat@odd@page}{true}%
    \else%
      \setboolean{@bidituftefloat@odd@page}{false}%
    \fi%
  }%
}
\newlength{\@bidituftefloat@overhang}% used by the fullwidth environment and the running head
\newlength{\@bidituftefloat@fullwidth}
\newlength{\@bidituftefloat@caption@fill}
\newcommand{\bidituftefloatRecalculate}{%
  \setlength{\@bidituftefloat@overhang}{\marginparwidth}
```

```
  \addtolength{\@bidituftefloat@overhang}{\marginparsep}

  \setlength{\@bidituftefloat@fullwidth}{\textwidth}
  \addtolength{\@bidituftefloat@fullwidth}{\marginparsep}
  \addtolength{\@bidituftefloat@fullwidth}{\marginparwidth}

  \setlength{\@bidituftefloat@caption@fill}{\textwidth}
  \addtolength{\@bidituftefloat@caption@fill}{\marginparsep}
}
\AtBeginDocument{\bidituftefloatRecalculate}
\RequirePackage{optparams}%  provides multiple optional arguments for commands
\RequirePackage{placeins}
\newsavebox{\@bidituftefloat@margin@floatbox}
\newenvironment{@bidituftefloat@margin@float}[2][-1.2ex]%
  {\FloatBarrier% process all floats before this point so the figure/table numbers stay in or
  \begin{lrbox}{\@bidituftefloat@margin@floatbox}%
  \begin{minipage}{\marginparwidth}%
    \@bidituftefloat@caption@font%
    \def\@captype{#2}%
    \hbox{}\vspace*{#1}%
    \@bidituftefloat@caption@justification%
    \@bidituftefloat@margin@par%
    \noindent%
  }
  {\end{minipage}%
  \end{lrbox}%
  \marginpar{\usebox{\@bidituftefloat@margin@floatbox}}%
  }
\newenvironment{marginfigure}[1][-1.2ex]%
  {\begin{@bidituftefloat@margin@float}[#1]{figure}}
  {\end{@bidituftefloat@margin@float}}
\newenvironment{margintable}[1][-1.2ex]%
  {\begin{@bidituftefloat@margin@float}[#1]{table}}
  {\end{@bidituftefloat@margin@float}}
\newcommand*{\@bidituftefloat@justification@autodetect}{\justifying}%

\newcommand{\@bidituftefloat@float@debug@info}{}% contains debug info generated as the float
\newcommand{\@bidituftefloat@float@debug}[1]{% adds debug info to the queue for output
  \ifthenelse{\equal{\@bidituftefloat@float@debug@info}{}}%
    {\def\@bidituftefloat@float@debug@info{#1}}%
    {\g@addto@macro\@bidituftefloat@float@debug@info{\MessageBreak#1}}%
}
\newcommand{\floatalignment}{x}% holds the current float alignment (t, b, h, p)
\newcommand{\setfloatalignment}[1]{\global\def\floatalignment{#1}\@bidituftefloat@float@debug
\newboolean{@bidituftefloat@float@recto}
\newcommand{\forcerectofloat}{\gsetboolean{@bidituftefloat@float@recto}{true}\@bidituftefloat
\newcommand{\forceversofloat}{\gsetboolean{@bidituftefloat@float@recto}{false}\@bidituftefloa
\newsavebox{\@bidituftefloat@figure@box}
\newsavebox{\@bidituftefloat@caption@box}
\let\@bidituftefloat@orig@float\@float
```

```
\let\@bidituftefloat@orig@endfloat\end@float
\newlength{\@bidituftefloat@caption@vertical@offset}
\setlength{\@bidituftefloat@caption@vertical@offset}{0pt}
\newcommand{\@bidituftefloat@stored@shortcaption}{}
\newcommand{\@bidituftefloat@stored@caption}{}
\newcommand{\@bidituftefloat@stored@label}{}
\long\def\@bidituftefloat@caption[#1][#2]#3{%
  \ifthenelse{\isempty{#1}}%
    {\gdef\@bidituftefloat@stored@shortcaption{#3}}%
    {\gdef\@bidituftefloat@stored@shortcaption{#1}}%
  \gsetlength{\@bidituftefloat@caption@vertical@offset}{-#2}% we want a positive offset to lo
  \gdef\@bidituftefloat@stored@caption{#3}%
}
\newcommand{\@bidituftefloat@label}[1]{%
  \gdef\@bidituftefloat@stored@label{#1}%
}
\newcommand{\@bidituftefloat@fps}{}
\newboolean{@bidituftefloat@float@star}
\newlength{\@bidituftefloat@float@contents@width}
\newenvironment{@bidituftefloat@float}[3][htbp]%
  {% begin @bidituftefloat@float
    % Should this float be full-width or just text-width?
    \ifthenelse{\equal{#3}{star}}%
      {\gsetboolean{@bidituftefloat@float@star}{true}}%
      {\gsetboolean{@bidituftefloat@float@star}{false}}%
    % Check page side (recto/verso) and store detected value -- can be overriden in environme
    \@bidituftefloat@checkoddpage%
    \ifthenelse{\boolean{@bidituftefloat@odd@page}}%
      {\gsetboolean{@bidituftefloat@float@recto}{true}\@bidituftefloat@float@debug{Detected p
      {\gsetboolean{@bidituftefloat@float@recto}{false}\@bidituftefloat@float@debug{Detected
    % If the float placement specifier is 'b' and only 'b', then bottom-align the mini-pages,
    \renewcommand{\@bidituftefloat@fps}{#1}%
    \@bidituftefloat@float@debug{Allowed positions: [#1]}%
    \ifthenelse{\equal{#1}{b}\OR\equal{#1}{B}}%
      {\renewcommand{\floatalignment}{b}\@bidituftefloat@float@debug{Presumed position: [bott
      {\renewcommand{\floatalignment}{t}\@bidituftefloat@float@debug{Presumed position: [top]
    % Capture the contents of the \caption and \label commands to use later
    \global\let\@bidituftefloat@orig@caption\caption%
    \global\let\@bidituftefloat@orig@label\label%
    \renewcommand{\caption}{\optparams{\@bidituftefloat@caption}{[][0pt]}}%
    \renewcommand{\label}[1]{\@bidituftefloat@label{##1}}%
    % Handle subfigure package compatibility
    \ifthenelse{\boolean{@bidituftefloat@packages@subfigure}}{%
      % don't move the label while inside a \subfigure or \subtable command
      \global\let\label\@bidituftefloat@orig@label%
    }{}% subfigure package is not loaded
    \@bidituftefloat@orig@float{#2}[#1]%
    \ifthenelse{\boolean{@bidituftefloat@float@star}}%
      {\setlength{\@bidituftefloat@float@contents@width}{\@bidituftefloat@fullwidth}}%
      {\setlength{\@bidituftefloat@float@contents@width}{\textwidth}}%
```

```
    \begin{lrbox}{\@bidituftefloat@figure@box}%
      \begin{minipage}[\floatalignment]{\@bidituftefloat@float@contents@width}\hbox{}%
  }{% end @bidituftefloat@float
      \par\hbox{}\vspace{-\baselineskip}\ifthenelse{\prevdepth>0}{\vspace{-\prevdepth}}{}% al
      \end{minipage}%
    \end{lrbox}%
    % build the caption box
    \begin{lrbox}{\@bidituftefloat@caption@box}%
      \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{}%
        \ifthenelse{\NOT\equal{\@bidituftefloat@stored@caption}{}}{\@bidituftefloat@orig@capt
        \ifthenelse{\NOT\equal{\@bidituftefloat@stored@label}{}}{\@bidituftefloat@orig@label{
        \par\vspace{-\prevdepth}%% TODO: DOUBLE-CHECK FOR SAFETY
      \end{minipage}%
    \end{lrbox}%
    % now typeset the stored boxes
    \begin{fullwidth}%
      \begin{minipage}[\floatalignment]{\linewidth}%
        \ifthenelse{\boolean{@bidituftefloat@float@star}}%
          {\@bidituftefloat@float@fullwidth[\@bidituftefloat@caption@vertical@offset]{\@bidit
          {\@bidituftefloat@float@textwidth[\@bidituftefloat@caption@vertical@offset]{\@bidit
      \end{minipage}%
    \end{fullwidth}%
    \@bidituftefloat@orig@endfloat% end original LaTeX float environment
    % output debug info
    \ifthenelse{\boolean{@bidituftefloat@debug}}{%
      \typeout{^^J^^J---------- bidituftefloat package float information ----------}%
      \ifthenelse{\equal{\@bidituftefloat@stored@label}{}}%
        {\typeout{Warning: Float unlabeled!}}%
        {\typeout{Float label: [\@bidituftefloat@stored@label]}}%
      \typeout{Page number: [\thepage]}%
      \def\MessageBreak{^^J}%
      \typeout{\@bidituftefloat@float@debug@info}%
      \ifthenelse{\boolean{@bidituftefloat@symmetric}}%
        {\typeout{Symmetric: [true]}}%
        {\typeout{Symmetric: [false]}}%
      \typeout{-----------------------------------------------------^^J^^J}%
    }{}%
    % reset commands and temp boxes and captions
    \gdef\@bidituftefloat@float@debug@info{}%
    \let\caption\@bidituftefloat@orig@caption%
    \let\label\@bidituftefloat@orig@label%
    \begin{lrbox}{\@bidituftefloat@figure@box}\hbox{}\end{lrbox}%
    \begin{lrbox}{\@bidituftefloat@caption@box}\hbox{}\end{lrbox}%
    \gdef\@bidituftefloat@stored@shortcaption{}%
    \gdef\@bidituftefloat@stored@caption{}%
    \gdef\@bidituftefloat@stored@label{}%
    \gsetlength{\@bidituftefloat@caption@vertical@offset}{0pt}% reset caption offset
  }
\newcommand{\@bidituftefloat@float@textwidth}[3][0pt]{%
  \ifthenelse{\NOT\boolean{@bidituftefloat@symmetric}\OR\boolean{@bidituftefloat@float@recto}
```

```
    % asymmetric or page is odd, so caption is on the right
    \hbox{%
      \usebox{#2}%
      \hspace{\marginparsep}%
      \smash{\raisebox{#1}{\usebox{#3}}}%
    }
    \@bidituftefloat@float@debug{Caption position: [right]}%
  }{% symmetric pages and page is even, so caption is on the left
    \hbox{%
      \smash{\raisebox{#1}{\usebox{#3}}}%
      \hspace{\marginparsep}%
      \usebox{#2}%
    }
    \@bidituftefloat@float@debug{Caption position: [left]}%
  }%
}
\newcommand{\@bidituftefloat@float@fullwidth}[3][0pt]{%
  \ifthenelse{\equal{\floatalignment}{b}}%
    {% place caption above figure
      \ifthenelse{\NOT\boolean{@bidituftefloat@symmetric}\OR\boolean{@bidituftefloat@float@re
        {\hfill\smash{\raisebox{#1}{\usebox{#3}}}\par\usebox{#2}\@bidituftefloat@float@debug{
        {\smash{\raisebox{#1}{\usebox{#3}}}\hfill\par\usebox{#2}\@bidituftefloat@float@debug{
    }{% place caption below figure
      \ifthenelse{\NOT\boolean{@bidituftefloat@symmetric}\OR\boolean{@bidituftefloat@float@re
        {\usebox{#2}\par\hfill\smash{\raisebox{#1}{\usebox{#3}}}\@bidituftefloat@float@debug{
        {\usebox{#2}\par\smash{\raisebox{#1}{\usebox{#3}}}\hfill\@bidituftefloat@float@debug{
    }%
}
\renewenvironment{figure}[1][htbp]%
  {\ifvmode\else\unskip\fi\begin{@bidituftefloat@float}[#1]{figure}{}}
  {\end{@bidituftefloat@float}}
\renewenvironment{table}[1][htbp]
  {\ifvmode\else\unskip\fi\begin{@bidituftefloat@float}[#1]{table}{}}
  {\end{@bidituftefloat@float}}
\renewenvironment{figure*}[1][htbp]%
  {\ifvmode\else\unskip\fi\begin{@bidituftefloat@float}[#1]{figure}{star}}
  {\end{@bidituftefloat@float}}
\renewenvironment{table*}[1][htbp]%
  {\ifvmode\else\unskip\fi\begin{@bidituftefloat@float}[#1]{table}{star}}
  {\end{@bidituftefloat@float}}
\newenvironment{fullwidth}
  {\ifthenelse{\boolean{@bidituftefloat@symmetric}}%
     {\ifthenelse{\boolean{@bidituftefloat@changepage}}{\begin{adjustwidth*}{}{-\@bidituftefl
     {\begin{adjustwidth}{}{-\@bidituftefloat@overhang}}%
  }%
  {\ifthenelse{\boolean{@bidituftefloat@symmetric}}%
    {\ifthenelse{\boolean{@bidituftefloat@changepage}}{\end{adjustwidth*}}{\end{adjustwidth}}
    {\end{adjustwidth}}%
  }
\long\def\@caption#1[#2]#3{%
```

```
  \par%
  \addcontentsline{\csname ext@#1\endcsname}{#1}%
    {\protect\numberline{\csname the#1\endcsname}{\ignorespaces #2}}%
  \begingroup%
    \@parboxrestore%
    \if@minipage%
      \@setminipage%
    \fi%
    \@bidituftefloat@caption@font\@bidituftefloat@caption@justification%
    \noindent\csname fnum@#1\endcsname: \ignorespaces#3\par%
    %\@makecaption{\csname fnum@#1\endcsname}{\ignorespaces #3}\par
  \endgroup}
%%
% Turns newlines into spaces.  Based on code from the 'titlesec' package.
\DeclareRobustCommand{\@bidituftеheading@newlinetospace}{%
  \@ifstar{\@bidituftеheading@newlinetospace@i}{\@bidituftеheading@newlinetospace@i}%
}
\def\@bidituftеheading@newlinetospace@i{%
  \ifdim\lastskip>\z@\else\space\fi
  \ignorespaces%
}
\DeclareRobustCommand{\newlinetospace}[1]{%
  \let\@bidituftеheading@orig@cr\\% save the original meaning of \\
  \def\\{\@bidituftеheading@newlinetospace}% turn \\ and \\* into \space
  \let\newline\\% turn \newline into \space
  #1%
  \let\\\@bidituftеheading@orig@cr% revert to original meaning of \\
}
\RequirePackage{fancyhdr}
\pagestyle{fancy}
\AtBeginDocument{%
  \ifthenelse{\boolean{@bidituftefloat@symmetric}}
    {\fancyhfoffset[LE,RO]{\@bidituftefloat@overhang}}
    {\fancyhfoffset[RE,RO]{\@bidituftefloat@overhang}}
}
% The running heads/feet don't have rules
\renewcommand{\headrulewidth}{0pt}
\renewcommand{\footrulewidth}{0pt}
% The 'fancy' page style is the default style for all pages.
\fancyhf{} % clear header and footer fields
    \ifthenelse{\boolean{@bidituftefloat@symmetric}}
    {\fancyhead[LE]{\thepage\quad\textsl{\newlinetospace{\plainauthor}}}%
    \fancyhead[RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
    {\fancyhead[RE,RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
% The 'plain' page style is used on chapter opening pages.
% In Tufte's /Beautiful Evidence/ he never puts page numbers at the
% bottom of pages -- the folios are unexpressed.
\fancypagestyle{plain}{
  \fancyhf{} % clear header and footer fields
  % Uncomment the following five lines of code if you want the opening page
```

```
  % of the chapter to express the folio in the lower outside corner.
  %  \ifthenelse{\boolean{@bidituftefloat@symmetric}}
  %  {\fancyfoot[LE,RO]{\thepage}}
  %  {\fancyfoot[RE,RO]{\thepage}}
}
% The ‘empty’ page style suppresses all headers and footers.
% It’s used on title pages and ‘intentionally blank’ pages.
\fancypagestyle{empty}{
  \fancyhf{} % clear header and footer fields
}
\def\morefloats{% provides a total of 52 floats
  \ifthenelse{\isundefined{\bx@S}}{%
    \bidituftefloatDebugInfoNL{Adding 34 more float slots.}
    \newinsert\bx@S
    \newinsert\bx@T
    \newinsert\bx@U
    \newinsert\bx@V
    \newinsert\bx@W
    \newinsert\bx@X
    \newinsert\bx@Y
    \newinsert\bx@Z
    \newinsert\bx@a
    \newinsert\bx@b
    \newinsert\bx@c
    \newinsert\bx@d
    \newinsert\bx@e
    \newinsert\bx@f
    \newinsert\bx@g
    \newinsert\bx@h
    \newinsert\bx@i
    \newinsert\bx@j
    \newinsert\bx@k
    \newinsert\bx@l
    \newinsert\bx@m
    \newinsert\bx@n
    \newinsert\bx@o
    \newinsert\bx@p
    \newinsert\bx@q
    \newinsert\bx@r
    \newinsert\bx@s
    \newinsert\bx@t
    \newinsert\bx@u
    \newinsert\bx@v
    \newinsert\bx@w
    \newinsert\bx@x
    \newinsert\bx@y
    \newinsert\bx@z
    \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
                    \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
                    \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
```

```
                    \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
                    \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
                    \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
                    \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
                    \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
                    \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
                    \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
                    \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
                    \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z}%
}{% we've already added another 34 floats, so we'll add 26 more, but that's it!
  \ifthenelse{\isundefined{\bx@AA}}{%
    \bidituftefloatDebugInfoNL{Adding 26 more float slots.}
    \newinsert\bx@AA
    \newinsert\bx@BB
    \newinsert\bx@CC
    \newinsert\bx@DD
    \newinsert\bx@EE
    \newinsert\bx@FF
    \newinsert\bx@GG
    \newinsert\bx@HH
    \newinsert\bx@II
    \newinsert\bx@JJ
    \newinsert\bx@KK
    \newinsert\bx@LL
    \newinsert\bx@MM
    \newinsert\bx@NN
    \newinsert\bx@OO
    \newinsert\bx@PP
    \newinsert\bx@QQ
    \newinsert\bx@RR
    \newinsert\bx@SS
    \newinsert\bx@TT
    \newinsert\bx@UU
    \newinsert\bx@VV
    \newinsert\bx@WW
    \newinsert\bx@XX
    \newinsert\bx@YY
    \newinsert\bx@ZZ
    \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
                    \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
                    \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
                    \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
                    \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
                    \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
                    \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
                    \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
                    \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
                    \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
                    \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
                    \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z
```

```
                        \@elt\bx@AA\@elt\bx@BB\@elt\bx@CC\@elt\bx@DD\@elt\bx@EE
                        \@elt\bx@FF\@elt\bx@GG\@elt\bx@HH\@elt\bx@II\@elt\bx@JJ
                        \@elt\bx@KK\@elt\bx@LL\@elt\bx@MM\@elt\bx@NN
                        \@elt\bx@OO\@elt\bx@PP\@elt\bx@QQ\@elt\bx@RR
                        \@elt\bx@SS\@elt\bx@TT\@elt\bx@UU\@elt\bx@VV
                        \@elt\bx@WW\@elt\bx@XX\@elt\bx@YY\@elt\bx@ZZ}%
    }{%
      \bidituftefloatError{You may only call \string\morefloats\space twice. See the\MessageB
        {There are already 78 float slots allocated. Try using \string\FloatBarrier\space or\
    }%
  }%
}
\newboolean{@bidituftefloat@packages@subfigure}
\setboolean{@bidituftefloat@packages@subfigure}{false}
\AtBeginDocument{%
  \@ifpackageloaded{subfigure}
    {\gsetboolean{@bidituftefloat@packages@subfigure}{true}}
    {\gsetboolean{@bidituftefloat@packages@subfigure}{false}}%
}
\AtBeginDocument{%
  \@ifpackageloaded{float}{%
    % Save the redefined float environment (instead of the LaTeX float environment)
    \let\@bidituftefloat@orig@float\@float
    \let\@bidituftefloat@orig@endfloat\end@float

    % Define Tuftian float styles (with the caption in the margin)
    \newcommand{\floatc@bidituftefloatplain}[2]{%
      \begin{lrbox}{\@bidituftefloat@caption@box}%
        \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{}%
          \@bidituftefloat@caption@font{\@fs@cfont #1:} #2\par%
        \end{minipage}%
      \end{lrbox}%
      \smash{\hspace{\@bidituftefloat@caption@fill}\usebox{\@bidituftefloat@caption@box}}%
    }
    \newcommand{\fs@bidituftefloatplain}{%
      \def\@fs@cfont{\@bidituftefloat@caption@font}%
      \let\@fs@capt\floatc@bidituftefloatplain%
      \def\@fs@pre{}%
      \def\@fs@post{}%
      \def\@fs@mid{}%
      \let\@fs@iftopcapt\iftrue%
    }
    \let\fs@bidituftefloatplaintop=\fs@bidituftefloatplain
    \let\floatc@bidituftefloatplaintop=\floatc@bidituftefloatplain
    \newcommand\floatc@bidituftefloatruled[2]{%
      {\@fs@cfont #1} #2\par%
    }
    \newcommand\fs@bidituftefloatruled{%
      \def\@fs@cfont{\@bidituftefloat@caption@font}%
      \let\@fs@capt\floatc@bidituftefloatplain%
```

```
      \def\@fs@pre{\hrule height.8pt depth0pt width\textwidth \kern2pt}%
      \def\@fs@post{\kern2pt\hrule width\textwidth\relax}%
      \def\@fs@mid{}%
      \let\@fs@iftopcapt\iftrue%
    }
    \newcommand\fs@bidituftefloatboxed{%
      \def\@fs@cfont{}%
      \let\@fs@capt\floatc@bidituftefloatplain%
      \def\@fs@pre{%
        \setbox\@currbox\vbox{\hbadness10000
        \moveleft3.4pt\vbox{\advance\hsize by6.8pt
          \hrule \hbox to\hsize{\vrule\kern3pt
            \vbox{\kern3pt\box\@currbox\kern3pt}\kern3pt\vrule}\hrule}}
      }%
      \def\@fs@mid{\kern2pt}%
      \def\@fs@post{}%
      \let\@fs@iftopcapt\iftrue%
    }
  }{%
    % Nothing to do
  }
}
\AtBeginDocument{%
  \@ifpackageloaded{algorithm}{%
    % Set the float style to the Tuftian version
    \ifthenelse{\equal{\ALG@floatstyle}{plain}\OR\equal{\ALG@floatstyle}{ruled}\OR\equal{\ALG
      \bidituftefloatInfoNL{Switching algorithm float style from \ALG@floatstyle\MessageBreak
      \floatstyle{bidituftefloat\ALG@floatstyle}%
      \restylefloat{algorithm}%
    }{}%
  }{%
    % Nothing to do
  }
}
\PassOptionsToPackage{caption=false}{subfig}
```

7.21 bidituftesidenote.sty

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{bidituftesidenote}[2011/06/17 v0.1
bidi implementation of tufte sidenote]
\RequirePackage{xifthen}
\RequirePackage{ragged2e}
\RequirePackage{setspace}
\RequirePackage{hopatch}
\def\bidituftesidenotemarginpar{%
  \ifhmode
    \@bsphack
    \@floatpenalty -\@Mii
  \else
```

```
    \@floatpenalty-\@Miii
  \fi
  \ifinner
    \@parmoderr
    \@floatpenalty\z@
  \else
    \@next\@currbox\@freelist{}{}%
    \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
       {\@floatpenalty\z@
        \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
  \fi
  \@ifnextchar [\@bidituftesidenotexmpar\@bidituftesidenoteympar}
\long\def\@bidituftesidenotexmpar[#1]#2{%
  \@bidituftesidenotesavemarbox\@marbox{#1}%
  \@bidituftesidenotesavemarbox\@currbox{#2}%
  \@xympar}
\long\def\@bidituftesidenoteympar#1{%
  \@bidituftesidenotesavemarbox\@marbox{#1}%
  \global\setbox\@currbox\copy\@marbox
  \@xympar}
\long\def \@bidituftesidenotesavemarbox #1#2{%
  \global\setbox #1%
    \color@vbox
      \vtop{%
        \hsize\marginparwidth
        \@parboxrestore
        \@bidituftesidenotemarginparreset
        #2%
        \@minipagefalse
        \outer@nobreak
        }%
    \color@endbox
}
\def \@bidituftesidenotemarginparreset {%
        \reset@font
        \normalsize
        \@minipagetrue
        \everypar{\@minipagefalse\everypar{}\if@RTL@footnote\beginR\else\beginL\fi}%
}
\def\LTRbidituftesidenotemarginpar{%
  \ifhmode
    \@bsphack
    \@floatpenalty -\@Mii
  \else
    \@floatpenalty-\@Miii
  \fi
  \ifinner
    \@parmoderr
    \@floatpenalty\z@
  \else
```

```
    \@next\@currbox\@freelist{}{}%
    \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
       {\@floatpenalty\z@
        \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
  \fi
  \@ifnextchar [\@LTRbidituftesidenotexmpar\@LTRbidituftesidenoteympar}
\long\def\@LTRbidituftesidenotexmpar[#1]#2{%
  \@LTRbidituftesidenotesavemarbox\@marbox{#1}%
  \@LTRbidituftesidenotesavemarbox\@currbox{#2}%
  \@xympar}
\long\def\@LTRbidituftesidenoteympar#1{%
  \@LTRbidituftesidenotesavemarbox\@marbox{#1}%
  \global\setbox\@currbox\copy\@marbox
  \@xympar}
\long\def \@LTRbidituftesidenotesavemarbox #1#2{%
  \global\setbox #1%
    \color@vbox
      \vtop{%
        \hsize\marginparwidth
        \@parboxrestore
        \@LTRbidituftesidenotemarginparreset
        #2%
        \@minipagefalse
        \outer@nobreak
        }%
    \color@endbox
}
\def \@LTRbidituftesidenotemarginparreset {%
        \reset@font
        \normalsize
        \@minipagetrue
        \everypar{\@minipagefalse\everypar{}\beginL}%
}
\def\RTLbidituftesidenotemarginpar{%
  \ifhmode
    \@bsphack
    \@floatpenalty -\@Mii
  \else
    \@floatpenalty-\@Miii
  \fi
  \ifinner
    \@parmoderr
    \@floatpenalty\z@
  \else
    \@next\@currbox\@freelist{}{}%
    \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
       {\@floatpenalty\z@
        \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
  \fi
  \@ifnextchar [\@RTLbidituftesidenotexmpar\@RTLbidituftesidenoteympar}
```

```
\long\def\@RTLbidituftesidenotexmpar[#1]#2{%
  \@RTLbidituftesidenotesavemarbox\@marbox{#1}%
  \@RTLbidituftesidenotesavemarbox\@currbox{#2}%
  \@xympar}
\long\def\@RTLbidituftesidenoteympar#1{%
  \@RTLbidituftesidenotesavemarbox\@marbox{#1}%
  \global\setbox\@currbox\copy\@marbox
  \@xympar}
\long\def \@RTLbidituftesidenotesavemarbox #1#2{%
  \global\setbox #1%
    \color@vbox
      \vtop{%
        \hsize\marginparwidth
        \@parboxrestore
        \@RTLbidituftesidenotemarginparreset
        #2%
        \@minipagefalse
        \outer@nobreak
        }%
    \color@endbox
}
\def \@RTLbidituftesidenotemarginparreset {%
        \reset@font
        \normalsize
        \@minipagetrue
        \everypar{\@minipagefalse\everypar{}\beginR}%
}
\newcommand{\@bidituftesidenote@marginfont}{\normalfont\footnotesize}
\newcommand*{\@bidituftesidenote@sidenote@font}{\@bidituftesidenote@marginfont}
\newcommand*{\@bidituftesidenote@marginnote@font}{\@bidituftesidenote@marginfont}
\newcommand*{\@bidituftesidenote@citation@font}{\@bidituftesidenote@marginfont}
\newcommand*{\setsidenotefont}[1]{\renewcommand*{\@bidituftesidenote@sidenote@font}{#1}}
\newcommand*{\setmarginnotefont}[1]{\renewcommand*{\@bidituftesidenote@marginnote@font}{#1}}
\newcommand*{\setcitationfont}[1]{\renewcommand*{\@bidituftesidenote@citation@font}{#1}}
\newcommand*{\@bidituftesidenote@sidenote@justification}{\@bidituftesidenote@justification@au
\newcommand*{\@bidituftesidenote@marginnote@justification}{\@bidituftesidenote@justification@
\newcommand*{\@bidituftesidenote@citation@justification}{\@bidituftesidenote@justification@au
\newcommand*{\@bidituftesidenote@justification@autodetect}{\justifying}%
\newcommand{\@bidituftesidenote@margin@par}{%
  \setlength{\RaggedRightParindent}{0.5pc}%
  \setlength{\JustifyingParindent}{0.5pc}%
  \setlength{\parindent}{0.5pc}%
  \setlength{\parskip}{0pt}%
}
%%
% Globally sets the length
\@ifundefined{gsetlength}{%
\newcommand*{\gsetlength}[2]{%
  \setlength{#1}{#2}%
  \global#1=#1\relax%
```

```
}%
}{}
%%
% Globally sets a boolean
\@ifundefined{gsetboolean}{%
\newcommand*{\gsetboolean}[2]{% based on code from ifthen pkg
  \lowercase{\def\@tempa{#2}}%
  \@ifundefined{@tempswa\@tempa}%
    {\PackageError{ifthen}{You can only set a boolean to `true' or `false'}\@ehc}%
    {\@ifundefined{#1\@tempa}%
      {\PackageError{ifthen}{Boolean #1 undefined}\@ehc}%
      {\global\csname#1\@tempa\endcsname}%
    }%
}%
}{}
%%
% A function that removes leading and trailling spaces from the supplied macro.
% Based on code written by Michael Downes (See ``Around the Bend'', #15.)
% Executing \@bidituftesidenote@trim@spaces\xyzzy will result in the contents of \xyzzy
% being trimmed of leading and trailing white space.
\catcode`\Q=3
\def\@bidituftesidenote@trim@spaces#1{%
  % Use grouping to emulate a multi-token afterassignment queue
  \begingroup%
  % Put `\toks 0 {' into the afterassignment queue
  \aftergroup\toks\aftergroup0\aftergroup{%
  % Apply \trimb to the replacement text of #1, adding a leading
  % \noexpand to prevent brace stripping and to serve another purpose
  % later.
  \expandafter\@bidituftesidenote@trim@b\expandafter\noexpand#1Q Q}%
  % Transfer the trimmed text back into #1.
  \edef#1{\the\toks0}%
}
% \trimb removes a trailing space if present, then calls \@bidituftesidenote@trim@c to
% clean up any leftover bizarre Qs, and trim a leading space. In
% order for \trimc to work properly we need to put back a Q first.
\def\@bidituftesidenote@trim@b#1 Q{\@bidituftesidenote@trim@c#1Q}
% Execute \vfuzz assignment to remove leading space; the \noexpand
% will now prevent unwanted expansion of a macro or other expandable
% token at the beginning of the trimmed text. The \endgroup will feed
% in the \aftergroup tokens after the \vfuzz assignment is completed.
\def\@bidituftesidenote@trim@c#1Q#2{\afterassignment\endgroup \vfuzz\the\vfuzz#1}
\catcode`\Q=11
%%
% Citations should go in the margin as sidenotes

\RequirePackage{natbib}
\RequirePackage{bibentry}        % allows bibitems to be typeset outside thebibliography envi
% Redefine the \BR@b@bibitem command to fix a bug with bibentry+chicago style
\renewcommand\BR@b@bibitem[2][]{%
```

```
  \ifthenelse{\isempty{#1}}%
    {\BR@bibitem{#2}}%
    {\BR@bibitem[#1]{#2}}%
  \BR@c@bibitem{#2}%
}
\nobibliography*                % pre-loads the bibliography keys
%%
% Normal \cite behavior
\newcounter{@bidituftesidenote@num@bibkeys}%
\newcommand{\@bidituftesidenote@normal@cite}[2][0pt]{%
  % Snag the last bibentry in the list for later comparison
  \let\@temp@last@bibkey\@empty%
  \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
  \sidenote[][#1]{%
    % Loop through all the bibentries, separating them with semicolons and spaces
    \normalsize\normalfont\@bidituftesidenote@citation@font%
    \setcounter{@bidituftesidenote@num@bibkeys}{0}%
    \@for\@temp@bibkeyx:=#2\do{%
      \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
        {\ifthenelse{\equal{\value{@bidituftesidenote@num@bibkeys}}{0}}{}{and\ }%
         \@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
         \bibentry{\@temp@bibkeyx}}%
        {\@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
         \bibentry{\@temp@bibkeyx};\ }%
      \stepcounter{@bidituftesidenote@num@bibkeys}%
    }%
  }%
}
%%
% Macros for holding the list of cite keys until after the \sidenote
\gdef\@bidituftesidenote@citations{}% list of cite keys
\newcommand\@bidituftesidenote@add@citation[1]{\relax% adds a new bibkey to the list of cite
  \ifx\@bidituftesidenote@citations\@empty\else
    \g@addto@macro\@bidituftesidenote@citations{,}% separate by commas
  \fi
  \g@addto@macro\@bidituftesidenote@citations{#1}
}
\newcommand{\@bidituftesidenote@print@citations}[1][0pt]{% puts the citations in a margin not
  % Snag the last bibentry in the list for later comparison
  \let\@temp@last@bibkey\@empty%
  \@for\@temp@bibkey:=\@bidituftesidenote@citations\do{\let\@temp@last@bibkey\@temp@bibkey}%
  \marginpar{%
    \hbox{}\vspace*{#1}%
    \@bidituftesidenote@citation@font%
    \@bidituftesidenote@citation@justification%
    \@bidituftesidenote@margin@par% use parindent and parskip settings for marginal text
    \vspace*{-1\baselineskip}%
    % Loop through all the bibentries, separating them with semicolons and spaces
    \setcounter{@bidituftesidenote@num@bibkeys}{0}%
    \@for\@temp@bibkeyx:=\@bidituftesidenote@citations\do{%
```

```
      \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
        {\ifthenelse{\equal{\value{@bidituftesidenote@num@bibkeys}}{0}}{}{and\ }%
         \@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
         \bibentry{\@temp@bibkeyx}}%
        {\@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
         \bibentry{\@temp@bibkeyx};\ }%
      \stepcounter{@bidituftesidenote@num@bibkeys}%
    }%
  }%
}
%%
% \cite behavior when executed within a sidenote
\newcommand{\@bidituftesidenote@sidenote@citations}{}% contains list of \cites in sidenote
\newcommand{\@bidituftesidenote@infootnote@cite}[1]{%
  \@bidituftesidenote@add@citation{#1}
}
%%
% Set the default \cite style.  This is set and reset by the \sidenote command.
\let\cite\@bidituftesidenote@normal@cite
%%
% Transform existing \footnotes into \sidenotes
% Sidenote: ‘‘Where God meant footnotes to go.’’ ---bidituftesidenote
\RequirePackage{optparams}% for our new sidenote commands -- provides multiple optional argum
\providecommand{\footnotelayout}{\@bidituftesidenote@sidenote@font\@bidituftesidenote@sidenot
\renewcommand{\footnotelayout}{\@bidituftesidenote@sidenote@font\@bidituftesidenote@sidenote@
% Override footmisc's definition to set the sidenote marks (numbers) inside the
% sidenote's text block.
\hopatch@AfterPackage{bidi}{\long\def\@makefntext#1{\@textsuperscript{\@bidituftesidenote@sid
% Set the in-text footnote mark in the same typeface as the body text itself.
\hopatch@AfterPackage{bidi}{\def\@makefnmark{\hbox{\@textsuperscript{\normalfont\footnotesize
\providecommand*{\multiplefootnotemarker}{3sp}
\providecommand*{\multfootsep}{,}
\hopatch@AfterPackage{bidi}{%
\renewcommand{\@footnotemark}{%
  \leavevmode%
  \ifhmode%
    \edef\@x@sf{\the\spacefactor}%
    \@bidituftesidenote@check@multiple@sidenotes%
    \nobreak%
  \fi%
  \@makefnmark%
  \ifhmode\spacefactor\@x@sf\fi%
  \relax%
}%
}
\newcommand{\@bidituftesidenote@check@multiple@sidenotes}{%
  \ifdim\lastkern=\multiplefootnotemarker\relax%
    \edef\@x@sf{\the\spacefactor}%
    \unkern%
    \textsuperscript{\multfootsep}%
```

```
    \spacefactor\@x@sf\relax%
  \fi
}
\hopatch@AfterPackage{bidi}{%
\renewcommand\@footnotetext[2][Opt]{%
  \bidituftesidenotemarginpar{%
    \hbox{}\vspace*{#1}%
    \def\baselinestretch {\setspace@singlespace}%
    \reset@font\footnotesize%
    \@bidituftesidenote@margin@par% use parindent and parskip settings for marginal text
    \vspace*{-1\baselineskip}\noindent%
    \protected@edef\@currentlabel{%
       \csname p@footnote\endcsname\@thefnmark%
    }%
    \color@begingroup%
       \@makefntext{%
         \ignorespaces#2%
       }%
    \color@endgroup%
  }%
}%
\renewcommand\@LTRfootnotetext[2][Opt]{%
  \LTRbidituftesidenotemarginpar{%
    \hbox{}\vspace*{#1}%
    \def\baselinestretch {\setspace@singlespace}%
    \reset@font\footnotesize%
    \@bidituftesidenote@margin@par% use parindent and parskip settings for marginal text
    \vspace*{-1\baselineskip}\noindent%
    \protected@edef\@currentlabel{%
       \csname p@footnote\endcsname\@thefnmark%
    }%
    \color@begingroup%
       \@makefntext{%
         \ignorespaces#2%
       }%
    \color@endgroup%
  }%
}%
\renewcommand\@RTLfootnotetext[2][Opt]{%
  \RTLbidituftesidenotemarginpar{%
    \hbox{}\vspace*{#1}%
    \def\baselinestretch {\setspace@singlespace}%
    \reset@font\footnotesize%
    \@bidituftesidenote@margin@par% use parindent and parskip settings for marginal text
    \vspace*{-1\baselineskip}\noindent%
    \protected@edef\@currentlabel{%
       \csname p@footnote\endcsname\@thefnmark%
    }%
    \color@begingroup%
       \@makefntext{%
```

```
        \ignorespaces#2%
      }%
    \color@endgroup%
  }%
}%
}
%
% Define \sidenote command.  Can handle \cite.
\newlength{\@bidituftesidenote@sidenote@vertical@offset}
\setlength{\@bidituftesidenote@sidenote@vertical@offset}{0pt}
% #1 = footnote num, #2 = vertical offset, #3 = footnote text
\long\def\@bidituftesidenote@sidenote[#1][#2]#3{%
  \let\cite\@bidituftesidenote@infootnote@cite%   use the in-sidenote \cite command
  \gdef\@bidituftesidenote@citations{}%           clear out any old citations
  \ifthenelse{\NOT\isempty{#2}}{%
    \gsetlength{\@bidituftesidenote@sidenote@vertical@offset}{#2}%
  }{%
    \gsetlength{\@bidituftesidenote@sidenote@vertical@offset}{0pt}%
  }%
  \ifthenelse{\isempty{#1}}{%
    % no specific footnote number provided
    \stepcounter\@mpfn%
    \protected@xdef\@thefnmark{\thempfn}%
    \@footnotemark\@footnotetext[\@bidituftesidenote@sidenote@vertical@offset]{#3}%
  }{%
    % specific footnote number provided
    \begingroup%
      \csname c@\@mpfn\endcsname #1\relax%
      \unrestored@protected@xdef\@thefnmark{\thempfn}%
    \endgroup%
    \@footnotemark\@footnotetext[\@bidituftesidenote@sidenote@vertical@offset]{#3}%
  }%
  \@bidituftesidenote@print@citations%            print any citations
  \let\cite\@bidituftesidenote@normal@cite%       go back to using normal in-text \cite comma
  \unskip\ignorespaces%               remove extra white space
  \kern-\multiplefootnotemarker%      remove \kern left behind by sidenote
  \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
}
\long\def\@LTRbidituftesidenote@sidenote[#1][#2]#3{%
  \let\cite\@bidituftesidenote@infootnote@cite%   use the in-sidenote \cite command
  \gdef\@bidituftesidenote@citations{}%           clear out any old citations
  \ifthenelse{\NOT\isempty{#2}}{%
    \gsetlength{\@bidituftesidenote@sidenote@vertical@offset}{#2}%
  }{%
    \gsetlength{\@bidituftesidenote@sidenote@vertical@offset}{0pt}%
  }%
  \ifthenelse{\isempty{#1}}{%
    % no specific footnote number provided
    \stepcounter\@mpfn%
    \protected@xdef\@thefnmark{\thempfn}%
```

```
    \@footnotemark\@LTRfootnotetext[\@bidituftesidenote@sidenote@vertical@offset]{#3}%
  }{%
    % specific footnote number provided
    \begingroup%
      \csname c@\@mpfn\endcsname #1\relax%
      \unrestored@protected@xdef\@thefnmark{\thempfn}%
    \endgroup%
    \@footnotemark\@LTRfootnotetext[\@bidituftesidenote@sidenote@vertical@offset]{#3}%
  }%
  \@bidituftesidenote@print@citations%            print any citations
  \let\cite\@bidituftesidenote@normal@cite%       go back to using normal in-text \cite comma
  \unskip\ignorespaces%               remove extra white space
  \kern-\multiplefootnotemarker%      remove \kern left behind by sidenote
  \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
}
\long\def\@RTLbidituftesidenote@sidenote[#1][#2]#3{%
  \let\cite\@bidituftesidenote@infootnote@cite%   use the in-sidenote \cite command
  \gdef\@bidituftesidenote@citations{}%           clear out any old citations
  \ifthenelse{\NOT\isempty{#2}}{%
    \gsetlength{\@bidituftesidenote@sidenote@vertical@offset}{#2}%
  }{%
    \gsetlength{\@bidituftesidenote@sidenote@vertical@offset}{0pt}%
  }%
  \ifthenelse{\isempty{#1}}{%
    % no specific footnote number provided
    \stepcounter\@mpfn%
    \protected@xdef\@thefnmark{\thempfn}%
    \@footnotemark\@RTLfootnotetext[\@bidituftesidenote@sidenote@vertical@offset]{#3}%
  }{%
    % specific footnote number provided
    \begingroup%
      \csname c@\@mpfn\endcsname #1\relax%
      \unrestored@protected@xdef\@thefnmark{\thempfn}%
    \endgroup%
    \@footnotemark\@RTLfootnotetext[\@bidituftesidenote@sidenote@vertical@offset]{#3}%
  }%
  \@bidituftesidenote@print@citations%            print any citations
  \let\cite\@bidituftesidenote@normal@cite%       go back to using normal in-text \cite comma
  \unskip\ignorespaces%               remove extra white space
  \kern-\multiplefootnotemarker%      remove \kern left behind by sidenote
  \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
}
\newcommand{\sidenote}{\optparams{\@bidituftesidenote@sidenote}{[][0pt]}}
\newcommand{\LTRsidenote}{\optparams{\@LTRbidituftesidenote@sidenote}{[][0pt]}}
\newcommand{\RTLsidenote}{\optparams{\@RTLbidituftesidenote@sidenote}{[][0pt]}}
\hopatch@AfterPackage{bidi}{%
\renewcommand{\footnote}{\optparams{\@bidituftesidenote@sidenote}{[][0pt]}}%
\renewcommand{\LTRfootnote}{\optparams{\@LTRbidituftesidenote@sidenote}{[][0pt]}}%
\renewcommand{\RTLfootnote}{\optparams{\@RTLbidituftesidenote@sidenote}{[][0pt]}}%
}
```

```
%%
% Sidenote without the footnote mark
\newcommand\marginnote[2][0pt]{%
  \let\cite\@bidituftesidenote@infootnote@cite%   use the in-sidenote \cite command
  \gdef\@bidituftesidenote@citations{}%           clear out any old citations
  \bidituftesidenotemarginpar{\hbox{}\vspace*{#1}\@bidituftesidenote@marginnote@font\@bidituf
  \@bidituftesidenote@print@citations%            print any citations
  \let\cite\@bidituftesidenote@normal@cite%       go back to using normal in-text \cite comma
}
\newcommand\LTRmarginnote[2][0pt]{%
  \let\cite\@bidituftesidenote@infootnote@cite%   use the in-sidenote \cite command
  \gdef\@bidituftesidenote@citations{}%           clear out any old citations
  \LTRbidituftesidenotemarginpar{\hbox{}\vspace*{#1}\@bidituftesidenote@marginnote@font\@bidi
  \@bidituftesidenote@print@citations%            print any citations
  \let\cite\@bidituftesidenote@normal@cite%       go back to using normal in-text \cite comma
}
\newcommand\RTLmarginnote[2][0pt]{%
  \let\cite\@bidituftesidenote@infootnote@cite%   use the in-sidenote \cite command
  \gdef\@bidituftesidenote@citations{}%           clear out any old citations
  \RTLbidituftesidenotemarginpar{\hbox{}\vspace*{#1}\@bidituftesidenote@marginnote@font\@bidi
  \@bidituftesidenote@print@citations%            print any citations
  \let\cite\@bidituftesidenote@normal@cite%       go back to using normal in-text \cite comma
}
```

7.22 bidituftetoc.sty

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{bidituftetoc}[2011/06/17 v0.1
bidi implementation of tufte toc]
\RequirePackage{titlesec,titletoc,xifthen,hopatch}
\newcommand{\@bidituftetoc@pkgname}{bidituftetoc}
\newcommand{\bidituftetocError}[2]{\PackageError{\@bidituftetoc@pkgname}{#1}{#2}}
%%
% Turn off section numbering
\setcounter{secnumdepth}{-1}
\newboolean{@bidituftetoc@toc}
\setboolean{@bidituftetoc@toc}{true}
\DeclareOption{notoc}{\setboolean{@bidituftetoc@toc}{false}}
\DeclareOption{toc}{\setboolean{@bidituftetoc@toc}{true}}
\ProcessOptions
%%
% Make Tuftian-style section headings and TOC formatting
\hopatch@AfterPackage{bidi}{%
\titleformat{\chapter}%
  [display]% shape
  {\relax\ifthenelse{\NOT\boolean{@bidituftefloat@symmetric}}{\begin{fullwidth}}{}}% format a
  {\itshape\huge\thechapter}% label
  {0pt}% horizontal separation between label and title body
  {\huge\rmfamily\itshape}% before the title body
  [\ifthenelse{\NOT\boolean{@bidituftefloat@symmetric}}{\end{fullwidth}}{}]% after the title
```

```
\titleformat{\section}%
  [hang]% shape
  {\normalfont\Large\itshape}% format applied to label+text
  {\thesection}% label
  {1em}% horizontal separation between label and title body
  {}% before the title body
  []% after the title body
\titleformat{\subsection}%
  [hang]% shape
  {\normalfont\large\itshape}% format applied to label+text
  {\thesubsection}% label
  {1em}% horizontal separation between label and title body
  {}% before the title body
  []% after the title body
\titleformat{\paragraph}%
  [runin]% shape
  {\normalfont\itshape}% format applied to label+text
  {\theparagraph}% label
  {1em}% horizontal separation between label and title body
  {}% before the title body
  []% after the title body
\titlespacing*{\chapter}{0pt}{50pt}{40pt}
\titlespacing*{\section}{0pt}{3.5ex plus 1ex minus .2ex}{2.3ex plus .2ex}
\titlespacing*{\subsection}{0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus.2ex}
}
% Subsubsection and following section headings shouldn't be used.
% See Bringhurst's _The Elements of Typography_, section 4.2.2.
\renewcommand\subsubsection{%
  \bidituftetocError{\noexpand\subsubsection is undefined by this class.%
    \MessageBreak See Robert Bringhurst's _The Elements of
    \MessageBreak Typographic Style_, section 4.2.2.
    \MessageBreak \noexpand\subsubsection was used}
    {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
    \MessageBreak many levels of headings as you need, no more and no fewer.  Also see the ma
    \MessageBreak related threads on Ask E.T. at http://www.edwardbidituftetoc.com/.}
}
\renewcommand\subparagraph{%
  \bidituftetocError{\noexpand\subparagraph is undefined by this class.%
    \MessageBreak See Robert Bringhurst's _The Elements of
    \MessageBreak Typographic Style_, section 4.2.2.
    \MessageBreak \noexpand\subparagraph was used}
    {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
    \MessageBreak many levels of headings as you need, no more and no fewer.  Also see the ma
    \MessageBreak related threads on Ask E.T. at http://www.edwardbidituftetoc.com/.}
}
% Formatting for main TOC (printed in front matter)
% {section} [left] {above} {before w/label} {before w/o label} {filler + page} [after]
\ifthenelse{\boolean{@bidituftetoc@toc}}{%
 \hopatch@AfterPackage{bidi}{%
 \titlecontents{part}% FIXME
```

```
    [0em] % distance from left margin
    {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global forma
    {\contentslabel{2em}} % before w/label (label = ``II'')
    {} % before w/o label
    {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
    [\end{fullwidth}] % after
  \titlecontents{chapter}%
    [0em] % distance from left margin
    {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global forma
    {\hspace*{0em}\contentslabel{2em}} % before w/label (label = ``2'')
    {\hspace*{0em}} % before w/o label
    {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
    [\end{fullwidth}] % after
  \titlecontents{section}% FIXME
    [0em] % distance from left margin
    {\vspace{0\baselineskip}\begin{fullwidth}\Large\rmfamily\itshape} % above (global formatt
    {\hspace*{2em}\contentslabel{2em}} % before w/label (label = ``2.6'')
    {\hspace*{2em}} % before w/o label
    {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
    [\end{fullwidth}] % after
  \titlecontents{subsection}% FIXME
    [0em] % distance from left margin
    {\vspace{0\baselineskip}\begin{fullwidth}\large\rmfamily\itshape} % above (global formatt
    {\hspace*{4em}\contentslabel{4em}} % before w/label (label = ``2.6.1'')
    {\hspace*{4em}} % before w/o label
    {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
    [\end{fullwidth}] % after
  \titlecontents{paragraph}% FIXME
    [0em] % distance from left margin
    {\vspace{0\baselineskip}\begin{fullwidth}\normalsize\rmfamily\itshape} % above (global fo
    {\hspace*{6em}\contentslabel{2em}} % before w/label (label = ``2.6.0.0.1'')
    {\hspace*{6em}} % before w/o label
    {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
    [\end{fullwidth}] % after
}%
}{}
%%
% Format lists of figures/tables
\renewcommand\listoffigures{%
  \@ifundefined{chapter}%
    {\section*{\listfigurename}}%
    {\chapter*{\listfigurename}}%
%  \begin{fullwidth}%
    \@starttoc{lof}%
%  \end{fullwidth}%
}
\renewcommand\listoftables{%
  \@ifundefined{chapter}%
    {\section*{\listtablename}}%
    {\chapter*{\listtablename}}%
```

```
%  \begin{fullwidth}%
    \@starttoc{lot}%
%  \end{fullwidth}%
}
\newcommand{\@bidituftetoc@lof@line}[2]{%
  % #1 is the figure/table number and its caption text
  % #2 is the page number on which the figure/table appears
  \leftskip 0.0em
  \rightskip 0em
  \parfillskip 0em plus 1fil
  \parindent 0.0em
  \@afterindenttrue
  \interlinepenalty\@M
  \leavevmode
  \@tempdima 2.0em
  \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
  \null\nobreak\hskip -\if@RTL\rightskip\else\leftskip\fi
  {#1}\nobreak\qquad\nobreak#2%
  \par%
}
\renewcommand*\l@figure{\@bidituftetoc@lof@line}
\let\l@table\l@figure
```

7.23 bidituftegeneralstructure.sty

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{bidituftegeneralstructure}[2011/06/18 v0.1
bidi implementation of tufte general structure]
\renewcommand\small{%
   \@setfontsize\small\@ixpt{12}%
   \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@
   \abovedisplayshortskip \z@ \@plus2\p@
   \belowdisplayshortskip 4\p@ \@plus2\p@ \@minus2\p@
   \def\@listi{\leftmargin\leftmargini
               \topsep 4\p@ \@plus2\p@ \@minus2\p@
               \parsep 2\p@ \@plus\p@ \@minus\p@
               \itemsep \parsep}%
   \belowdisplayskip \abovedisplayskip
}
\renewcommand\scriptsize{\@setfontsize\scriptsize\@viipt\@viiipt}
\renewcommand\tiny{\@setfontsize\tiny\@vpt\@vipt}
\renewcommand\large{\@setfontsize\large\@xipt{15}}
\renewcommand\Large{\@setfontsize\Large\@xiipt{16}}
\renewcommand\LARGE{\@setfontsize\LARGE\@xivpt{18}}
\renewcommand\huge{\@setfontsize\huge\@xxpt{30}}
\renewcommand\Huge{\@setfontsize\Huge{24}{36}}
\setlength\leftmargini   {1pc}
\setlength\leftmarginii  {1pc}
\setlength\leftmarginiii {1pc}
\setlength\leftmarginiv  {1pc}
```

```
\setlength\leftmarginv   {1pc}
\setlength\leftmarginvi  {1pc}
\setlength\labelsep      {.5pc}
\setlength\labelwidth    {\leftmargini}
\addtolength\labelwidth{-\labelsep}
\setlength{\parindent}{1.0pc}%
\setlength{\parskip}{0pt}%
\RequirePackage{ragged2e}
\setlength{\RaggedRightRightskip}{\z@ plus 0.08\hsize}
% Paragraph indentation and separation for normal text
\newcommand{\@bidituftegeneralstructure@reset@par}{%
  \setlength{\RaggedRightParindent}{1.0pc}%
  \setlength{\JustifyingParindent}{1.0pc}%
  \setlength{\parindent}{1pc}%
  \setlength{\parskip}{0pt}%
}
\@bidituftegeneralstructure@reset@par
% Require paralist package for tighter lists
\RequirePackage{paralist}
% Add rightmargin to compactenum
\def\@compactenum@{%
  \expandafter\list\csname label\@enumctr\endcsname{%
    \usecounter{\@enumctr}%
    \rightmargin=2em% added this
    \parsep\plparsep
    \itemsep\plitemsep
    \topsep\pltopsep
    \partopsep\plpartopsep
    \def\makelabel##1{\hss\llap{##1}}}}
%%
% An environment for paragraph-style section
\providecommand\newthought[1]{%
   \addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}%
   \noindent\textbf{#1}%
}
%%
% Redefine the display environments (quote, quotation, etc.)
\renewenvironment{verse}
               {\let\\\@centercr
                \list{}{\itemsep      \z@
                        \itemindent   -1pc%
                        \listparindent\itemindent
                        \rightmargin  \leftmargin
                        \advance\leftmargin 1pc}%
                \small%
                \item\relax}
               {\endlist}
\renewenvironment{quotation}
               {\list{}{\listparindent 1pc%
                        \itemindent    \listparindent
```

```
                        \rightmargin   \leftmargin
                        \parsep        \z@ \@plus\p@}%
                 \small%
                 \item\relax\noindent\ignorespaces}
                {\endlist}
\renewenvironment{quote}
                {\list{}{\rightmargin\leftmargin}%
                 \small%
                 \item\relax}
                {\endlist}
% Italicize description run-in headings (instead of the default bold)
\renewcommand*\descriptionlabel[1]{\hspace\labelsep\normalfont\em #1}
%%
% Redefine \bibsection to not mark the running heads.
% (Code modified from natbib.sty.)
\@ifundefined{chapter}%
  {\renewcommand\bibsection{\section*{\refname}}}
  {\@ifundefined{NAT@sectionbib}%
    {\renewcommand\bibsection{\chapter{\bibname}}}
    {\renewcommand\bibsection{\section*{\bibname}}}}
\RequirePackage{multicol}
\renewenvironment{theindex}{%
\@ifundefined{chapter}%
    {\section*{\indexname}}%
    {\chapter{\indexname}}%
  \begin{fullwidth}%
  \small%
  \parskip0pt%
  \parindent0pt%
  \let\item\@idxitem%
  \begin{multicols}{3}%
}{%
  \end{multicols}%
  \end{fullwidth}%
}
\AtBeginDocument{%
\renewcommand\@idxitem{\par\hangindent \if@RTL-\fi2em}%
\renewcommand\subitem{\par\hangindent \if@RTL-\fi3em\hspace*{1em}}%
\renewcommand\subsubitem{\par\hangindent \if@RTL-\fi4em\hspace*{2em}}}
\renewcommand\indexspace{\par\addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}\relax}%
\newcommand{\lettergroup}[1]{}% swallow the letter heading in the index
```

7.24 bidituftehyperref.sty

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{bidituftehyperref}[2011/06/18 v0.1
bidi implementation of tufte hyperref]
%%
% Color
\RequirePackage[usenames,dvipsnames,svgnames]{xcolor}%
```

```
\newboolean{@bidituftehyperref@loadhyper}
\setboolean{@bidituftehyperref@loadhyper}{true}
\DeclareOption{hyper}{\setboolean{@bidituftehyperref@loadhyper}{true}}
\DeclareOption{nohyper}{\setboolean{@bidituftehyperref@loadhyper}{false}}
\ProcessOptions
%% Loads the hyperref package and sets some default options.
\newcommand{\bidituftehyperrefLoadHyperref}{%
\RequirePackage[hyperfootnotes=false,colorlinks=true]{hyperref}
  \hypersetup{%
    bookmarksdepth = section,
    citecolor = DarkGreen,
    linkcolor = DarkBlue,
%    pagecolor = DarkBlue,
    urlcolor = DarkGreen,
  }%
}
\ifthenelse{\boolean{@bidituftehyperref@loadhyper}}{%
  \bidituftehyperrefLoadHyperref%
}{% hyperfootnotes override our modifications to the \footnote* and \@footnote* commands.
  \PassOptionsToPackage{hyperfootnotes=false}{hyperref}
}
```

7.25 bidituftetitle.sty

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{bidituftetitle}[2011/06/18 v0.1
bidi implementation of tufte title]
\RequirePackage{etoolbox}
%%
% ‘titlepage’ option -- creates a full title page with \maketitle
\newboolean{@bidituftetitle@titlepage}
\DeclareOption{titlepage}{\setboolean{@bidituftetitle@titlepage}{true}}
\DeclareOption{notitlepage}{\setboolean{@bidituftetitle@titlepage}{false}}
% Default ‘book’ and ‘handout’ options
\@ifclassloaded{book}{%
\ExecuteOptions{titlepage}}{%
\@ifclassloaded{article}{%
\ExecuteOptions{notitlepage}}%
{}}
\ProcessOptions
%%
% Modified \title, \author, and \date commands.  These store the
% (footnote-less) values in \plaintitle, \plainauthor, and \thedate, respectively.
\newcommand{\plaintitle}{}%     plain-text-only title
\newcommand{\plainauthor}{}%    plain-text-only author
\newcommand{\plainpublisher}{}% plain-text-only publisher
\newcommand{\thanklesstitle}{}%     full title text minus \thanks{}
\newcommand{\thanklessauthor}{}%    full author text minus \thanks{}
\newcommand{\thanklesspublisher}{}% full publisher minus \thanks{}
\newcommand{\@publisher}{}% full publisher with \thanks{}
```

```
\newcommand{\thedate}{\today}
\hopatch@AfterPackage{bidi}{%
\renewcommand{\thanks}[1]{\footnote{#1}}
\renewcommand{\LTRthanks}[1]{\LTRfootnote{#1}}
\renewcommand{\RTLthanks}[1]{\RTLfootnote{#1}}
}
\renewcommand{\title}[2][]{%
  \gdef\@title{#2}%
  \begingroup%
    % TODO store contents of \thanks command
    \renewcommand{\thanks}[1]{}% swallow \thanks contents
    \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
    \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
    \protected@xdef\thanklesstitle{#2}%
  \endgroup%
  \ifthenelse{\isempty{#1}}%
    {\renewcommand{\plaintitle}{\thanklesstitle}}% use thankless title
    {\renewcommand{\plaintitle}{#1}}% use provided plain-text title
  \@ifundefined{hypersetup}%
    {}% hyperref is not loaded; do nothing
    {\hypersetup{pdftitle={\plaintitle}}}% set the PDF metadata title
}
\let\@author\@empty% suppress default latex.ltx ``no author'' warning
\renewcommand{\author}[2][]{%
  \ifthenelse{\isempty{#2}}{}{\gdef\@author{#2}}%
  \begingroup%
    % TODO store contents of \thanks command
    \renewcommand{\thanks}[1]{}% swallow \thanks contents
    \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
    \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
    \protected@xdef\thanklessauthor{#2}%
  \endgroup%
  \ifthenelse{\isempty{#1}}%
    {\renewcommand{\plainauthor}{\thanklessauthor}}% use thankless author
    {\renewcommand{\plainauthor}{#1}}% use provided plain-text author
  \@ifundefined{hypersetup}%
    {}% hyperref is not loaded; do nothing
    {\hypersetup{pdfauthor={\plainauthor}}}% set the PDF metadata author
}
\renewcommand{\date}[1]{%
  \gdef\@date{#1}%
  \begingroup%
    % TODO store contents of \thanks command
    \renewcommand{\thanks}[1]{}% swallow \thanks contents
    \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
    \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
    \protected@xdef\thedate{#1}%
  \endgroup%
}
%%
```

```
% Provides a \publisher command to set the publisher
\newcommand{\publisher}[2][]{%
  \gdef\@publisher{#2}%
  \begingroup%
    \renewcommand{\thanks}[1]{}% swallow \thanks contents
    \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
    \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
    \protected@xdef\thanklesspublisher{#2}%
  \endgroup%
  \ifthenelse{\isempty{#1}}
    {\renewcommand{\plainpublisher}{\thanklesspublisher}}% use thankless publisher
    {\renewcommand{\plainpublisher}{#1}}% use provided plain-text publisher
}
%%
% Produces a full title page
\newcommand{\maketitlepage}[0]{%
  \cleardoublepage%
  {%
  \bfseries%
  \begin{fullwidth}%
  \fontsize{18}{20}\selectfont\par\noindent\thanklessauthor%
  \vspace{11.5pc}%
  \fontsize{36}{40}\selectfont\par\noindent\thanklesstitle%
  \vfill%
  \fontsize{14}{16}\selectfont\par\noindent\thanklesspublisher%
  \end{fullwidth}%
  }
  \thispagestyle{empty}%
  \clearpage%
}
%%
% Title block
\AfterEndPreamble{%
\renewcommand{\maketitle}{%
  \newpage%
  \global\@topnum\z@% prevent floats from being placed at the top of the page
  \begingroup%
    \setlength{\parindent}{0pt}%
    \setlength{\parskip}{4pt}%
    \let\@@title\@empty%
    \let\@@author\@empty%
    \let\@@date\@empty%
      \gdef\@@title{\LARGE\itshape\@title\par}%
      \gdef\@@author{\Large\itshape\@author\par}%
      \gdef\@@date{\Large\itshape\@date\par}%
    \@@title%
    \@@author%
    \@@date%
  \endgroup%
  \thispagestyle{plain}% suppress the running head
```

```
}%
}
%%
% Title page (if the 'titlepage' option was passed to the bidituftetitle-handout
% class.)
\AfterEndPreamble{%
\ifthenelse{\boolean{@bidituftetitle@titlepage}}
  {\renewcommand{\maketitle}{\maketitlepage}}
  {}
}
%%
% When \cleardoublepage is called, produce a blank (empty) page -- i.e.,
% without headers and footers
\def\cleardoublepage{\clearpage\if@twoside\ifodd\c@page\else
  \hbox{}
  %\vspace*{\fill}
  %\begin{center}
  %  This page intentionally contains only this sentence.
  %\end{center}
  %\vspace{\fill}
  \thispagestyle{empty}
  \newpage
  \if@twocolumn\hbox{}\newpage\fi\fi\fi}
```

7.26 bidituftе-handout.cls

```
\NeedsTeXFormat{LaTeX2e}[1994/06/01]
\ProvidesClass{bidituftе-handout}[2011/06/18 v0.1 bidituftе-handout class]
\DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
\DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftefloat}}
\DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetoc}}
\DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftehyperref}}
\DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetitle}}
\ProcessOptions\relax
\LoadClass{article}
\RequirePackage{bidituftefloat}
\RequirePackage{bidituftesidenote}
\RequirePackage{bidituftetoc}
\RequirePackage{bidituftegeneralstructure}
\RequirePackage{bidituftehyperref}
\RequirePackage{bidituftetitle}
\renewenvironment{abstract}
  {\begin{quotation}}
  {\end{quotation}}
\AtBeginDocument{%
\IfFileExists{bidituftе-handout.cfg}
  {\input{bidituftе-handout.cfg}
   \ClassInfo{bidituftе-handout}{Loading bidituftе-handout configuration file \@gobble}}
  {}%
}
```

7.27 biditufte-book.cls

```
\NeedsTeXFormat{LaTeX2e}[1994/06/01]
\ProvidesClass{biditufte-book}[2011/06/18 v0.1 biditufte-book class]
\DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
\DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftefloat}}
\DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetoc}}
\DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftehyperref}}
\DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetitle}}
\ProcessOptions\relax
\LoadClass{book}
\RequirePackage{bidituftefloat}
\RequirePackage{bidituftesidenote}
\RequirePackage{bidituftetoc}
\RequirePackage{biditufteg eneralstructure}
\RequirePackage{bidituftehyperref}
\RequirePackage{bidituftetitle}
%%
% Set up any book-specific stuff now
%%
% The front matter in Tufte's /Beautiful Evidence/ contains everything up
% to the opening page of Chapter 1.  The running heads, when they appear,
% contain only the (arabic) page number in the outside corner.
%\newif\if@mainmatter \@mainmattertrue
\renewcommand\frontmatter{%
  \cleardoublepage%
  \@mainmatterfalse%
  \pagenumbering{arabic}%
  %\pagestyle{plain}%
  \fancyhf{}%
    \ifthenelse{\boolean{@bidituftefloat@twoside}}%
    {\fancyhead[LE,RO]{\thepage}}%
    {\fancyhead[RE,RO]{\thepage}}%
}
%%
% The main matter in Tufte's /Beautiful Evidence/ doesn't restart the page
% numbering---it continues where it left off in the front matter.
\renewcommand\mainmatter{%
  \cleardoublepage%
  \@mainmattertrue%
  \fancyhf{}%
  \ifthenelse{\boolean{@bidituftefloat@twoside}}%
      {\renewcommand{\chaptermark}[1]{\markboth{##1}{}}%
      \fancyhead[LE]{\thepage\quad\smallcaps{\newlinetospace{\plaintitle}}}% book title
      \fancyhead[RO]{\smallcaps{\newlinetospace{\leftmark}}\quad\thepage}}% chapter title
      {\fancyhead[RE,RO]{\smallcaps{\newlinetospace{\plaintitle}}\quad\thepage}}% book title
}
%%
% The back matter contains appendices, indices, glossaries, endnotes,
% biliographies, list of contributors, illustration credits, etc.
```

```
\renewcommand\backmatter{%
  \if@openright%
    \cleardoublepage%
  \else%
    \clearpage%
  \fi%
  \@mainmatterfalse%
}
%%
% Only show the chapter titles in the table of contents
\setcounter{tocdepth}{0}
\AtBeginDocument{%
\IfFileExists{biditufte-book.cfg}
  {\input{biditufte-book.cfg}
   \ClassInfo{biditufte-book}{Loading biditufte-book configuration file \@gobble}}
  {}%
}
```

7.28 bidipoem.sty

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{bidipoem}%
[2014/02/05 v0.7 Environments for typesetting Persian traditional and modern poems]
{\catcode`\^^M=\active % these lines must end with %
  \gdef\traditionalpoem@obeylines{\catcode`\^^M\active \let^^M\traditionalpoem@par}%
  \global\let^^M\traditionalpoem@par} % this is in case ^^M appears in a \write
{\catcode`\^^M=\active % these lines must end with %
  \gdef\modernpoem@obeylines{\catcode`\^^M\active \let^^M\modernpoem@par}%
  \global\let^^M\modernpoem@par} % this is in case ^^M appears in a \write
\def\poemcolsepskip{.1\versewidth plus .1\versewidth minus .05\versewidth}
\def\poemmarginskip{1em plus 1fil minus 1em}
\def\poemextrabaselineskip{0\baselineskip}
\def\poemskip{\medskip}
\newcommand{\bidipoem@openbox}{\leavevmode
  \hbox to.77778em{%
  \hfil\vrule
  \vbox to.675em{\hrule width.6em\vfil\hrule}%
  \vrule\hfil}}
\def\poemblocksep{\quad\hbox{\bidipoem@openbox}}
\newdimen\versewidth
\newtoks\bidipoem@p@ftn
\def\poem@verse#1{%
\ifdim\wd#1>\new@poem@width
\xdef\new@poem@width{\the\wd#1}%
\ifdim\new@poem@width>\poem@width
\xdef\poem@width{\new@poem@width}%
\global\let\poem@needrun\relax
\fi
\fi
\hbox to\poem@width{\unhbox#1}%
```

```
\global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn%
}
\def\poem@linebegin{\vadjust{}\hskip\@flushglue\hskip\poemmarginskip\relax}
\def\poem@lineend{\nobreak\hskip\poemmarginskip\hskip\@flushglue\vadjust{}}
\def\poem@lineversesep{%
\nobreak
\hskip\z@ plus 1filll%
\penalty600%
\hskip\poemcolsepskip
\hskip\z@ plus -2filll%
\vadjust{}%
\nobreak
\hskip\z@ plus 1filll%
}
\def\poem@lineparsebegin{%
\halign\bgroup
\global\setbox\verse@i=\hbox{%
\let\@footnotetext\bidipoem@p@ftntext%
\let\@LTRfootnotetext\bidipoem@p@LTRftntext%
\let\@RTLfootnotetext\bidipoem@p@RTLftntext%
\let\@xfootnotenext\bidipoem@p@xftntext%
\let\@xfootnote\bidipoem@p@xfootnote%
\let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
\let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
\let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
\let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
\ignorespaces##\unskip}&&
\global\setbox\verse@ii=\hbox{%
\let\@footnotetext\bidipoem@p@ftntext%
\let\@LTRfootnotetext\bidipoem@p@LTRftntext%
\let\@RTLfootnotetext\bidipoem@p@RTLftntext%
\let\@xfootnotenext\bidipoem@p@xftntext%
\let\@xfootnote\bidipoem@p@xfootnote%
\let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
\let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
\let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
\let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
\ignorespaces##\unskip}
\cr
}
\def\poem@lineparseend{%
\crcr\egroup
\vskip-\baselineskip
}
\def\traditionalpoem@cr{%
  \cr\poem@line
}
\newbox\verse@i
\newbox\verse@ii
\newif\ifpoem@started
```

```
4465
4466 \def\poem@line{%
4467 \poem@lineparseend
4468 \ifdim\wd\verse@i>\z@\global\poem@startedtrue\fi
4469 \ifdim\wd\verse@ii>\z@\global\poem@startedtrue\fi
4470 \ifpoem@started
4471   \ifdim\wd\verse@ii>\z@\else
4472   \nopagebreak[3]
4473   \fi
4474   \leavevmode
4475   \poem@linebegin
4476   \poem@verse\verse@i
4477   \ifdim\wd\verse@ii>\z@
4478   \poem@lineversesep
4479   \poem@verse\verse@ii
4480   \fi
4481   \poem@lineend
4482 %  \nopagebreak
4483   \par
4484   \vskip\poemextrabaselineskip
4485 \fi
4486 \poem@lineparsebegin
4487 }
4488 \def\@traditionalpoem{%
4489 \stepcounter{poem@no}
4490         \ifnum\max@poem@no<\number\c@poem@no%
4491 \xdef\poem@width{\z@}%
4492         \else
4493 \xdef\poem@width{\poem@prop{poem@width}}%
4494 \fi
4495 \xdef\new@poem@width{\z@}%
4496 \global\versewidth=\poem@width
4497 \poemskip\par
4498 \begingroup
4499 \tabskip=\z@
4500 \parskip=\z@
4501 \parindent=\z@
4502 \parfillskip=\z@
4503 \rightskip=\z@
4504 \leftskip=\z@
4505 \widowpenalty=10000% No break between verses of the same line.
4506 \clubpenalty=10000% Same as above.  Not really needed.
4507 \def\newblock{\hfil\poemblocksep\hfil\null}%
4508 \def\traditionalpoem@par{\traditionalpoem@cr}% Redefine \par for possible \obeylines
4509 \def\\{\global\poem@startedtrue\traditionalpoem@cr}%
4510 \global\poem@startedfalse
4511 \csname poem@obeylines\endcsname
4512 \let\poem@obeylines\relax
4513 \poem@lineparsebegin
```

```
}
\def\@endtraditionalpoem{%
\cr
\ifdim\wd\verse@i>\z@\poem@line\else\ifdim\wd\verse@ii>\z@\poem@line\else
\noalign{%
\skip0=\poemextrabaselineskip
\vskip-\skip0
\vskip-\baselineskip
}%
\fi\fi
\poem@lineparseend
\endgroup
\par
\vskip\baselineskip
\poemskip
  \if@noparlist \else
    \ifdim\lastskip >\z@
      \@tempskipa\lastskip \vskip -\lastskip
      \advance\@tempskipa\parskip \advance\@tempskipa -\@outerparskip
      \vskip\@tempskipa
    \fi
    \@endparenv
  \fi
\ifdim\new@poem@width<\poem@width
\global\let\poem@needrun\relax
\fi
        \poem@write@aux{poem@width@\romannumeral\c@poem@no}{\new@poem@width}%
\ifx\AtEndDocument\undefined\poem@finish\fi
}


\long\def\bidipoem@p@ftntext#1{%
  \edef\@tempx{\the\bidipoem@p@ftn\noexpand\footnotetext[\the\csname c@\@mpfn\endcsname]}%
  \global\bidipoem@p@ftn\expandafter{\@tempx{#1}}}%
\long\def\bidipoem@p@LTRftntext#1{%
  \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\@mpfn\endcsname]}
  \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
\long\def\bidipoem@p@RTLftntext#1{%
  \edef\@tempxii{\the\bidipoem@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\@mpfn\endcsname]
  \global\bidipoem@p@ftn\expandafter{\@tempxii{#1}}}%

\long\def\bidipoem@p@xftntext[#1]#2{%
  \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\footnotetext[#1]{#2}}}

\long\def\bidipoem@p@xLTRftntext[#1]#2{%
  \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\LTRfootnotetext[#1]{#2}}}

\long\def\bidipoem@p@xRTLftntext[#1]#2{%
  \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\RTLfootnotetext[#1]{#2}}}

```

```
\def\bidipoem@p@xfootnote[#1]{%
   \begingroup
     \csname c@\@mpfn\endcsname #1\relax
     \unrestored@protected@xdef\@thefnmark{\thempfn}%
   \endgroup
   \@footnotemark\bidipoem@p@xftntext[#1]}

\def\bidipoem@p@xLTRfootnote[#1]{%
   \begingroup
     \csname c@\@mpfn\endcsname #1\relax
     \unrestored@protected@xdef\@thefnmark{\thempfn}%
   \endgroup
   \@footnotemark\bidipoem@p@xLTRftntext[#1]}

\def\bidipoem@p@xRTLfootnote[#1]{%
   \begingroup
     \csname c@\@mpfn\endcsname #1\relax
     \unrestored@protected@xdef\@thefnmark{\thempfn}%
   \endgroup
   \@footnotemark\bidipoem@p@xRTLftntext[#1]}



\newenvironment{traditionalpoem}{\@traditionalpoem}{\@endtraditionalpoem}
\expandafter\def\csname traditionalpoem*\endcsname{\let\poem@obeylines=\traditionalpoem@obeyl
\expandafter\def\csname endtraditionalpoem*\endcsname{\endtraditionalpoem}
\def\poem@finish{%
\poem@write@aux{max@poem@no}{\number\c@poem@no}%
\ifx\poem@needrun\relax
\PackageWarning{bidipoem}{Unjustified poem.  Rerun XeLaTeX to get poem right}%
\global\let\poem@needrun\undefined
\fi
}
\ifx\AtEndDocument\undefined\else\AtEndDocument\poem@finish\fi
\newcounter{poem@no}\setcounter{poem@no}{\z@}
\ifx\max@poem@no\undefined
        \def\max@poem@no{0}%
\fi
\newcommand{\poem@prop}[1]{\@nameuse{#1@\romannumeral\c@poem@no}}
\newcommand{\poem@write@aux}[2]{%
        \def\@x{\immediate\write\@auxout{\global\noexpand\@namedef{#1}{#2}}}%
        \@x
}
\def\@modernpoem{%
\par
\begingroup
\parskip=\z@
\parindent=\z@
\def\[{\@settab\@tabplus\ignorespaces}%
\def\]{\@tabminus\ignorespaces}%
```

```
\def\newblock{\poemblocksep}%
\let\newpoem@tabcr\@tabcr
\def\modernpoem@par{% Redefine \par for possible \obeylines
  \ifpoem@started\else
    \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
      \@stopfield
      \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
      \@contfield
    \fi
  \fi
  \ifpoem@started\newpoem@tabcr\fi}%
\def\@tabcr{\global\poem@startedtrue\newpoem@tabcr}%
\global\poem@startedfalse
\csname poem@obeylines\endcsname
\let\poem@obeylines\relax
\begin{tabbing}%
}
\def\@endmodernpoem{%
\global\poem@startedfalse
\ifdim\wd\@curline>\z@\global\poem@startedtrue\else
  \@stopfield
  \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
  \@contfield
\fi
\ifpoem@started\else\let\@stopline\@stopfield\fi
\end{tabbing}%
\endgroup
\par
  \if@noparlist \else
    \ifdim\lastskip >\z@
      \@tempskipa\lastskip \vskip -\lastskip
      \advance\@tempskipa\parskip \advance\@tempskipa -\@outerparskip
      \vskip\@tempskipa
    \fi
    \@endparenv
  \fi
}
\newenvironment{modernpoem}{\@modernpoem}{\@endmodernpoem}
\expandafter\def\csname modernpoem*\endcsname{\let\poem@obeylines=\modernpoem@obeylines\moder
\expandafter\def\csname endmodernpoem*\endcsname{\endmodernpoem}
\gdef\@startfield{%
\global\setbox\@curfield\hbox\bgroup%
\let\@footnotetext\bidipoem@p@ftntext%
\let\@LTRfootnotetext\bidipoem@p@LTRftntext%
\let\@RTLfootnotetext\bidipoem@p@RTLftntext%
\let\@xfootnotenext\bidipoem@p@xftntext%
\let\@xfootnote\bidipoem@p@xfootnote%
\let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
\let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
\let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
```

```
\let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
\color@begingroup}
\gdef\@stopfield{%
  \color@endgroup\egroup\global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn}
\gdef\@contfield{%
\global\setbox\@curfield\hbox\bgroup%
\let\@footnotetext\bidipoem@p@ftntext%
\let\@LTRfootnotetext\bidipoem@p@LTRftntext%
\let\@RTLfootnotetext\bidipoem@p@RTLftntext%
\let\@xfootnotenext\bidipoem@p@xftntext%
\let\@xfootnote\bidipoem@p@xfootnote%
\let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
\let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
\let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
\let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
\color@begingroup\unhbox\@curfield}
```

7.29 bidipresentation.cls

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesClass{bidipresentation}[2014/02/05 v0.2 bidi presentation]
\DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
\ProcessOptions\relax
\LoadClass{article}

\RequirePackage[foot=10.2pt,head=0pt,paperwidth=128mm,paperheight=96mm,left=5mm,top=5mm,right

\RequirePackage{fancyhdr}
\renewcommand{\headrulewidth}{0mm}

\renewcommand{\maketitle}%
  {\ClassError{bidipresentation}{Caution: ``maketitle'' command not supported}%
  {Please use ``titlepage'' environment instead}%
}

\fancypagestyle{pres}{%
\lhead{}%
\chead{}%
\rhead{}%
\lfoot{\footnotesize \thepage}%
\cfoot{}%
\rfoot{}%
}

\pagestyle{pres}

\newcommand{\distance}[1]{\vspace*{\stretch{#1}}}
\newcommand{\abstand}[1]{\vspace*{\stretch{#1}}}

\setlength{\parskip}{0.6ex}
```

```
\setlength{\parindent}{0mm}

\newenvironment{plainslide}[1][]%
   {{\raggedleft \large\bfseries #1\par}\par\vspace*{\stretch{1}}}%
   {\par\vspace*{\stretch{1}}\newpage}

\newenvironment{rawslide}{}{\newpage}%

\def\itemize{%
  \ifnum \@itemdepth >\thr@@\@toodeep\else
    \advance\@itemdepth\@ne
    \edef\@itemitem{labelitem\romannumeral\the\@itemdepth}%
    \expandafter
    \list
      \csname\@itemitem\endcsname
      {\def\makelabel##1{\hss\llap{##1}}}%
  \fi
    \setlength{\itemsep}{0ex}%
    \setlength{\parskip}{0.1ex}%
    \setlength{\parsep}{0ex}%
    }%
\let\enditemize =\endlist

\def\enumerate{%
  \ifnum \@enumdepth >\thr@@\@toodeep\else
    \advance\@enumdepth\@ne
    \edef\@enumctr{enum\romannumeral\the\@enumdepth}%
      \expandafter
      \list
        \csname label\@enumctr\endcsname
        {\usecounter\@enumctr\def\makelabel##1{\hss\llap{##1}}}%
  \fi
    \setlength{\itemsep}{0ex}%
    \setlength{\parskip}{0.1ex}%
    \setlength{\parsep}{0ex}%
    }%
\let\endenumerate =\endlist

\renewenvironment{description}
               {\list{}{\labelwidth\z@ \itemindent-\leftmargin
                        \let\makelabel\descriptionlabel}
 \setlength{\itemsep}{0ex}%
    \setlength{\parskip}{0.1ex}%
    \setlength{\parsep}{0ex}}
               {\endlist}

\newbox\bidi@uses@vebox
\newtoks\bidi@uses@veoutput
\newcount\bidi@uses@vepage
\def\pause{\global\bidi@uses@vepage=\count0\relax %save pagenumber
```

```
  \bidi@uses@veoutput=\output % make backup copy of output routine
  \output={\global\setbox\bidi@uses@vebox=\box255}% copy current contents
          % only, when triggered
  \vfill\eject %trigger now
  \output=\bidi@uses@veoutput % restore output routine
  \unvcopy\bidi@uses@vebox % insert contents
  \eject % now really show the output
  \global\count0=\bidi@uses@vepage\relax %restore page number
  \unvbox\bidi@uses@vebox\vskip-\lastskip % and insert again for next turn
}%
```

7.30 boek3-xetex-bidi.def

```
\ProvidesFile{boek3-xetex-bidi.def}[2011/08/26 v0.2 bidi adaptations for boek3 class for XeTe
\renewenvironment{theindex}{%
  \if@twocolumn
    \@restonecolfalse
  \else
    \@restonecoltrue
  \fi
  \columnseprule \z@
  \columnsep 35\p@
  \twocolumn[\@makeschapterhead{\indexname}]%
  \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
  \thispagestyle{plain}\parindent\z@
  \parskip\z@ \@plus .3\p@\relax
  \let\item\@idxitem
  }{%
  \if@restonecol\onecolumn\else\clearpage\fi}
\renewcommand*\head@style{%
    \interlinepenalty \@M
    \hyphenpenalty=\@M \exhyphenpenalty=\@M
    \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
\renewcommand*\@regtocline[3]{%
  \ifnum #1>\c@tocdepth
  \else
    \vskip\z@\@plus.2\p@
    {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
     \if@RTL\rightskip\else\leftskip\fi\unitindent
     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
     \parfillskip\z@
     \@tempdima\unitindent
     \parindent\z@
     \leavevmode
     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
     \hskip 1em \nobreak{\slshape #3}\par
     }%
  \fi}
\if@oldtoc
\renewcommand*\l@part[2]{%
```

```
  \ifnum \c@tocdepth >-2\relax
    \addpenalty{-\@highpenalty}%
    \addvspace{2.25em \@plus\p@}%
    \begingroup
      \setlength\@tempdima{3em}%
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      {\leavevmode
        \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
        \nobreak
        \global\@nobreaktrue
        \everypar{\global\@nobreakfalse\everypar{}}%
    \endgroup
  \fi}
\else
   \renewcommand*\l@part{%
     \ifnum \c@tocdepth >-2\relax
     \addpenalty{-\@highpenalty}%
     \addvspace{2.25em \@plus \p@}%
     \@regtocline{0}%
   \fi}
\fi
\if@oldtoc
\renewcommand*\l@chapter[2]{%
    \addpenalty{-\@highpenalty}%
    \vskip 1.0em \@plus\p@
    \setlength\@tempdima{1.5em}%
    \begingroup
    \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
    \parfillskip -\@pnumwidth
    \leavevmode \bfseries
    \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
    \hskip -\if@RTL\rightskip\else\leftskip\fi
    #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
    \penalty\@highpenalty
   \endgroup}
\else
  \renewcommand*\l@chapter{\@regtocline{0}}
\fi
\renewenvironment{abstract}{%
      \titlepage
      \null\vfil
      \section*{\SectFont \abstractname}
      \noindent\ignorespaces}
     {\par\vfil\null\endtitlepage}
\renewenvironment{thebibliography}[1]
     {\chapter*{\bibname}%
       \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
      \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
      \list{\@biblabel{\@arabic\c@enumiv}}%
```

```
           {\settowidth\labelwidth{\@biblabel{#1}}%
            \leftmargin\labelwidth
            \advance\leftmargin\labelsep
            \@openbib@code
            \usecounter{enumiv}%
            \let\p@enumiv\@empty
            \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
      \sloppy\clubpenalty4000\widowpenalty4000%
      \sfcode`\.\@m}
     {\def\@noitemerr
       {\@latex@warning{Empty `thebibliography' environment}}%
      \endlist}
\renewcommand*\left@footnoterule{%
  \kern-3\p@
  \kern.5\baselineskip
  \hrule\@width\unitindent
  \kern.4\baselineskip
}
\renewcommand*\right@footnoterule{%
  \hbox to \columnwidth
  {\beginR \vbox{%
  \kern-3\p@
  \kern.5\baselineskip
  \hrule\@width\unitindent
  \kern.4\baselineskip}\hfil\endR}
}
\renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
\renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
\renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
\renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
\renewcommand*\theequation{%
  \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
\renewcommand*\thefigure{%
  \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
\renewcommand*\thetable{%
  \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
\renewcommand*\maketitle{%
  \begin{titlepage}%
    \let\footnotesize\small
    \let\right@footnoterule\relax
    \let\left@footnoterule\relax
    \let\textwidth@footnoterule\relax
    \let \footnote \thanks
    \long\def\@makefntext##1{\parindent\z@
         \def\labelitemi{\textendash}\@revlabeltrue
         \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
    \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
    \if@compatibility\setcounter{page}{0}\fi
    \null\vfil
```

```
    \vskip 60\p@
    \begin{center}%
      \TitleFont
      {\LARGE \def\\{\penalty -\@M}
        \if@allcaps
          \expandafter\uc@nothanks\@title\thanks\relax
        \else
          \@title
        \fi\par}%
      \vskip 3em%
      {\large
        \lineskip .75em \parindent\z@
        \begin{tabular}[t]{c}%
          \if@allcaps
            \expandafter\uc@authornothanks\@author\and\relax
          \else
            \@author
          \fi
        \end{tabular}\par}%
      \vskip 1.5em%
      {\large
        \if@allcaps
          \uppercase\expandafter{\@date}%
        \else
          \@date
        \fi\par}%
      \end{center}\par
    \@thanks
    \vfil\null
  \end{titlepage}%
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@title\@empty
  \global\let\@date\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
```

7.31 boek-xetex-bidi.def

```
\ProvidesFile{boek-xetex-bidi.def}[2011/08/26 v0.2 bidi adaptations for boek class for XeTeX
\renewenvironment{theindex}{%
  \if@twocolumn
    \@restonecolfalse
  \else
```

```
    \@restonecoltrue
  \fi
  \columnseprule \z@
  \columnsep 35\p@
  \twocolumn[\@makeschapterhead{\indexname}]%
  \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
  \thispagestyle{plain}\parindent\z@
  \parskip\z@ \@plus .3\p@\relax
  \let\item\@idxitem
  }{%
  \if@restonecol\onecolumn\else\clearpage\fi}
\renewcommand*\head@style{%
    \interlinepenalty \@M
    \hyphenpenalty=\@M \exhyphenpenalty=\@M
    \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
\renewcommand*\@regtocline[3]{%
  \ifnum #1>\c@tocdepth
  \else
    \vskip\z@\@plus.2\p@
    {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
     \if@RTL\rightskip\else\leftskip\fi\unitindent
     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
     \parfillskip\z@
     \@tempdima\unitindent
     \parindent\z@
     \leavevmode
     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
     \hskip 1em \nobreak{\slshape #3}\par
     }%
  \fi}
\if@oldtoc
\renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >-2\relax
    \addpenalty{-\@highpenalty}%
    \addvspace{2.25em \@plus\p@}%
    \begingroup
      \setlength\@tempdima{3em}%
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      {\leavevmode
        \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
        \nobreak
        \global\@nobreaktrue
        \everypar{\global\@nobreakfalse\everypar{}}%
    \endgroup
  \fi}
\else
   \renewcommand*\l@part{%
     \ifnum \c@tocdepth >-2\relax
     \addpenalty{-\@highpenalty}%
```

```
      \addvspace{2.25em \@plus \p@}%
      \@regtocline{0}%
    \fi}
\fi
\if@oldtoc
\renewcommand*\l@chapter[2]{%
    \addpenalty{-\@highpenalty}%
    \vskip 1.0em \@plus\p@
    \setlength\@tempdima{1.5em}%
    \begingroup
    \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
    \parfillskip -\@pnumwidth
    \leavevmode \bfseries
    \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
    \hskip -\if@RTL\rightskip\else\leftskip\fi
    #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
    \penalty\@highpenalty
   \endgroup}
\else
  \renewcommand*\l@chapter{\@regtocline{0}}
\fi
\renewcommand*\left@footnoterule{%
  \kern-3\p@
  \kern.5\baselineskip
  \hrule\@width\unitindent
  \kern.4\baselineskip
}
\renewcommand*\right@footnoterule{%
  \hbox to \columnwidth
  {\beginR \vbox{%
  \kern-3\p@
  \kern.5\baselineskip
  \hrule\@width\unitindent
  \kern.4\baselineskip}\hfil\endR}
}
\renewenvironment{abstract}{%
      \titlepage
      \null\vfil
      \section*{\SectFont \abstractname}
      \noindent\ignorespaces}
     {\par\vfil\null\endtitlepage}
\renewenvironment{thebibliography}[1]
     {\chapter*{\bibname}%
       \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
      \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
      \list{\@biblabel{\@arabic\c@enumiv}}%
           {\settowidth\labelwidth{\@biblabel{#1}}%
            \leftmargin\labelwidth
            \advance\leftmargin\labelsep
            \@openbib@code
```

```
            \usecounter{enumiv}%
            \let\p@enumiv\@empty
            \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
      \sloppy\clubpenalty4000\widowpenalty4000%
      \sfcode`\.\@m}
     {\def\@noitemerr
       {\@latex@warning{Empty `thebibliography' environment}}%
      \endlist}
\renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
\renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
\renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
\renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
\renewcommand*\theequation{%
  \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
\renewcommand*\thefigure{%
  \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
\renewcommand*\thetable{%
  \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
\renewcommand*\maketitle{%
  \begin{titlepage}%
    \let\footnotesize\small
    \let\right@footnoterule\relax
    \let\left@footnoterule\relax
    \let\textwidth@footnoterule\relax
    \let \footnote \thanks
    \long\def\@makefntext##1{\parindent\z@
         \def\labelitemi{\textendash}\@revlabeltrue
         \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
    \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
    \if@compatibility\setcounter{page}{0}\fi
    \null\vfil
    \vskip 60\p@
    \begin{center}%
      \TitleFont
      {\LARGE \def\\{\penalty -\@M}
        \if@allcaps
          \expandafter\uc@nothanks\@title\thanks\relax
        \else
          \@title
        \fi\par}%
      \vskip 3em%
      {\large
        \lineskip .75em \parindent\z@
        \begin{tabular}[t]{c}%
          \if@allcaps
            \expandafter\uc@authornothanks\@author\and\relax
          \else
            \@author
          \fi
```

```
        \end{tabular}\par}%
      \vskip 1.5em%
      {\large
        \if@allcaps
          \uppercase\expandafter{\@date}%
        \else
          \@date
        \fi\par}%
      \end{center}\par
    \@thanks
    \vfil\null
  \end{titlepage}%
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@title\@empty
  \global\let\@date\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
```

7.32 bookest-xetex-bidi.def

```
\ProvidesFile{bookest-xetex-bidi.def}[2010/07/25 v0.4 bidi adaptations for bookest class for
\def\@makechapterhead#1{%
  \vspace*{20\p@}
  {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
    \ifnum \c@secnumdepth >\m@ne
      \if@mainmatter
        {\colorA\huge\scshape \@chapapp\space \thechapter}
        \par\nobreak
        \vskip 10\p@
      \fi
    \fi
    \interlinepenalty\@M
  {\colorB\hrule}
  \vskip 15\p@
   \if@RTL\begin{flushleft}\else\begin{flushright}\fi
     {\colorA\Huge \bfseries #1}\par\nobreak
   \if@RTL\end{flushleft}\else\end{flushright}\fi
  \vskip 5\p@
  {\colorB\hrule}
  \vskip 30\p@
  }}
\def\@makeschapterhead#1{%
  \vspace*{20\p@}
```

```
  {\parindent \z@ \raggedright \normalfont
  {\colorB\hrule}
  \vskip 15\p@
   \begin{center}
     {\colorA\Huge \bfseries #1}\par\nobreak
   \end{center}
  \vskip 5\p@
  {\colorB\hrule}
  \vskip 30\p@
  }}
```

7.33 book-xetex-bidi.def

```
\ProvidesFile{book-xetex-bidi.def}[2011/08/26 v0.8 bidi adaptations for standard book class f
\renewenvironment{theindex}
                {\if@twocolumn
                   \@restonecolfalse
                 \else
                   \@restonecoltrue
                 \fi
                 \columnseprule \z@
                 \columnsep 35\p@
                 \twocolumn[\@makeschapterhead{\indexname}]%
                 \@mkboth{\MakeUppercase\indexname}%
                         {\MakeUppercase\indexname}%
                 \thispagestyle{plain}\parindent\z@
                 \parskip\z@ \@plus .3\p@\relax
                 \let\item\@idxitem}
                {\if@restonecol\onecolumn\else\clearpage\fi}
\@ifclassloaded{bookest}{}{%
  \if@titlepage
  \renewcommand\maketitle{\begin{titlepage}%
  \let\footnotesize\small
  \let\right@footnoterule\relax
  \let\left@footnoterule\relax
  \let\textwidth@footnoterule\relax
  \let \footnote \thanks
  \let \LTRfootnote \LTRthanks
  \let \RTLfootnote \RTLthanks
  \null\vfil
  \vskip 60\p@
  \begin{center}%
    {\LARGE \@title \par}%
    \vskip 3em%
    {\large
     \lineskip .75em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
      \vskip 1.5em%
```

```
    {\large \@date \par}%       % Set date in \large size.
  \end{center}\par
  \@thanks
  \vfil\null
  \end{titlepage}%
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\LTRthanks\relax
  \global\let\RTLthanks\relax
  \global\let\maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty
  \global\let\@title\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\else
\renewcommand\maketitle{\par
  \begingroup
    \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
    \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
    \long\def\@makefntext##1{\parindent 1em\noindent
            \hb@xt@1.8em{%
                \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
    \if@twocolumn
      \ifnum \col@number=\@ne
        \@maketitle
      \else
        \twocolumn[\@maketitle]%
      \fi
    \else
      \newpage
      \global\@topnum\z@   % Prevents figures from going at top of page.
      \@maketitle
    \fi
    \thispagestyle{plain}\@thanks
  \endgroup
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\LTRthanks\relax
  \global\let\RTLthanks\relax
  \global\let\maketitle\relax
  \global\let\@maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty
  \global\let\@title\@empty
```

```
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\def\@maketitle{%
  \newpage
  \null
  \vskip 2em%
  \begin{center}%
  \let \footnote \thanks
  \let \LTRfootnote \LTRthanks
  \let \RTLfootnote \RTLthanks
    {\LARGE \@title \par}%
    \vskip 1.5em%
    {\large
      \lineskip .5em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
    \vskip 1em%
    {\large \@date}%
  \end{center}%
  \par
  \vskip 1.5em}
\fi}
\renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >-2\relax
    \addpenalty{-\@highpenalty}%
    \addvspace{2.25em \@plus\p@}%
    \setlength\@tempdima{3em}%
    \begingroup
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      {\leavevmode
       \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
       \nobreak
         \global\@nobreaktrue
         \everypar{\global\@nobreakfalse\everypar{}}%
    \endgroup
  \fi}
\renewcommand*\l@chapter[2]{%
  \ifnum \c@tocdepth >\m@ne
    \addpenalty{-\@highpenalty}%
    \vskip 1.0em \@plus\p@
    \setlength\@tempdima{1.5em}%
    \begingroup
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      \leavevmode \bfseries
```

```
      \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
      \hskip -\if@RTL\rightskip\else\leftskip\fi
      #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
      \penalty\@highpenalty
    \endgroup
  \fi}
\renewcommand\left@footnoterule{%
  \kern-3\p@
  \hrule\@width.4\columnwidth
  \kern2.6\p@}
\renewcommand\right@footnoterule{%
  \hbox to \columnwidth
  {\beginR \vbox{%
  \kern-3\p@
  \hrule\@width.4\columnwidth
  \kern2.6\p@}\hfil\endR}}
\renewcommand\theequation
  {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
\renewcommand \thefigure
     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
\renewcommand \thetable
     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
\renewcommand \thechapter {\@arabic\c@chapter}
\renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
\renewcommand\thesubsection   {\thesection\@SepMark\@arabic\c@subsection}
\renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
\renewcommand\theparagraph    {\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
\def\@makechapterhead#1{%
  \vspace*{50\p@}%
  {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
    \ifnum \c@secnumdepth >\m@ne
      \if@mainmatter
        \huge\bfseries \@chapapp\space \thechapter
        \par\nobreak
        \vskip 20\p@
      \fi
    \fi
    \interlinepenalty\@M
    \Huge \bfseries #1\par\nobreak
    \vskip 40\p@
  }}
\def\@makeschapterhead#1{%
  \vspace*{50\p@}%
  {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
    \normalfont
    \interlinepenalty\@M
    \Huge \bfseries  #1\par\nobreak
    \vskip 40\p@
  }}
```

```
\renewcommand\backmatter{%
  \if@openright
    \cleardoublepage
  \else
    \clearpage
  \fi
  \@mainmatterfalse}
\renewenvironment{thebibliography}[1]
     {\chapter*{\bibname}%
      \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
      \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
      \list{\@biblabel{\@arabic\c@enumiv}}%
           {\settowidth\labelwidth{\@biblabel{#1}}%
            \leftmargin\labelwidth
            \advance\leftmargin\labelsep
            \@openbib@code
            \usecounter{enumiv}%
            \let\p@enumiv\@empty
            \renewcommand\theenumiv{\@arabic\c@enumiv}}%
      \sloppy
      \clubpenalty4000
      \@clubpenalty \clubpenalty
      \widowpenalty4000%
      \sfcode`\.\@m}
     {\def\@noitemerr
       {\@latex@warning{Empty `thebibliography' environment}}%
      \endlist}
```

7.34 breqn-xetex-bidi.def

```
\ProvidesFile{breqn-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for breqn package for Xe
\def\@dmath[#1]{\if@RTL\@RTLfalse\fi%
  \everydisplay\expandafter{\the\everydisplay \display@setup}%
  \if@noskipsec \leavevmode \fi
  \if@inlabel \leavevmode \global\@inlabelfalse \fi
  \if\eq@group\else\eq@prelim\fi
  \setkeys{breqn}{#1}%
  \the\eqstyle
  \eq@setnumber
  \begingroup
  \eq@setup@a
  \eq@startup
}
\def\@dgroup[#1]{\if@RTL\@RTLfalse\fi%
  \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
  \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x
  \global\let\GRP@label\@empty
  \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@
  \global\grp@linewidth\z@\global\grp@wdNum\z@
  \global\let\grp@eqs@numbered\@False
```

```
  \global\let\grp@aligned\@True
  \global\let\grp@shiftnumber\@False
  \eq@prelim
  \setkeys{breqn}{#1}%
  \if\grp@hasNumber \grp@setnumber \fi
}
\def\@dseries[#1]{\if@RTL\@RTLfalse\fi%
  \let\display@setup\dseries@display@setup
  % Question: should this be the default for dseries???
  \global\eq@wdCond\z@
  \@dmath[layout={M},#1]%
  \mathsurround\z@\@@math \penalty\@Mi
  \let\endmath\ends@math
  \def\premath{%
    \ifdim\lastskip<.3em \unskip
    \else\ifnum\lastpenalty<\@M \dquad\fi\fi
}%
  \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%
\ignorespaces
}
\def\eqnumform#1{\if@Latin\else\beginR\@RTLtrue\fi(#1\@@italiccorr)\if@Latin\else\endR\fi}
\renewenvironment{dsuspend}{%
  \global\setbox\EQ@box\vbox\bgroup\if@Latin\else\@RTLtrue\fi \@parboxrestore
    \parshape 1 \displayindent \displaywidth\relax
    \hsize=\columnwidth \noindent\ignorespaces
}{%
  \par\egroup
  \global\setbox\GRP@box\vbox{%
    \hbox{\copy\EQ@box\vtop{\unvbox\EQ@box}}%
    \unvbox\GRP@box
  }%
  \global\GRP@queue\@xp{\the\GRP@queue
     \@elt{\let\eq@isIntertext\@True}%
  }%
}
```

7.35 cals-xetex-bidi.def

```
\ProvidesFile{cals-xetex-bidi.def}[2013/05/28 v0.3 bidi adaptations for cals package for XeTe
\renewenvironment{calstable}[1][c]{%
\if@RTL\@RTLtabtrue\cals@activate@rtl\fi
  \if l#1%
    \if@RTLtab\leftskip\fill \rightskip\z@\else\leftskip\z@ \rightskip\fill\fi
  \else\if r#1%
    \if@RTLtab\leftskip\z@ \rightskip\fill\else\leftskip\fill \rightskip\z@\fi
  \else\if c#1%
    \leftskip\fill \rightskip\fill
  \fi\fi\fi
\let\cals@thead@tokens=\relax
\let\cals@tfoot@tokens=\relax
```

```
\let\cals@tbreak@tokens=\relax
\cals@tfoot@height=0pt \relax
\let\cals@last@context=n%
\let\cals@current@context=b%
\parindent=0pt %
\cals@setpadding{Ag}\cals@setcellprevdepth{Al}\cals@set@tohsize%
%% Alignment inside is independent on center/flushright outside
\parfillskip=0pt plus1fil\relax
\let\cals@borderL=\relax
\let\cals@borderR=\relax
\let\cals@borderT=\relax
\let\cals@borderB=\relax
}{% End of the table
\cals@tfoot@tokens\lastrule\@RTLtabfalse}

\renewcommand\alignL{%
\dimen0=\cals@paddingL \if@RTLtab\cals@paddingL=\dimen0 plus 1fill\else\cals@paddingL=\dimen0
\dimen0=\cals@paddingR \cals@paddingR=\dimen0 \relax}

\renewcommand\alignR{%
\dimen0=\cals@paddingL \if@RTLtab\cals@paddingL=\dimen0\else\cals@paddingL=\dimen0 plus 1fill
\dimen0=\cals@paddingR \cals@paddingR=\dimen0 \relax}
```

7.36 caption-xetex-bidi.def

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

7.37 caption3-xetex-bidi.def

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

7.38 colortbl-xetex-bidi.def

```
\ProvidesFile{colortbl-xetex-bidi.def}[2012/06/10 v0.2 bidi adaptations for colortbl package
\def\CT@setup{%
  \@tempdimb\col@sep
  \@tempdimc\col@sep
  \def\CT@color{%
    \global\let\CT@do@color\CT@@do@color
    \bidicolor}}
\def\@classz{\@classx
   \@tempcnta \count@
   \prepnext@tok
\expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
   \@addtopreamble{\if@RTLtab\beginL\fi%
    \setbox\z@\hbox\bgroup\bgroup\if@RTLtab\beginR\fi
      \ifcase \@chnum
      \hskip\stretch{.5}\kern\z@
      \d@llarbegin
```

```
      \insert@column
      \d@llarend\hskip\stretch{.5}\or
      \d@llarbegin \insert@column \d@llarend \hfill \or
      \hfill\kern\z@ \d@llarbegin \insert@column \d@llarend \or
   $\vcenter
   \@startpbox{\@nextchar}\insert@column \@endpbox $\or
   \vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
   \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
  \fi
 \if@RTLtab\endR\fi\egroup\egroup
\begingroup
  \CT@setup
  \CT@column@color
  \CT@row@color
  \CT@cell@color
  \CT@do@color
\endgroup
        \@tempdima\ht\z@
        \advance\@tempdima\minrowclearance
        \vrule\@height\@tempdima\@width\z@
        \unhbox\z@\if@RTLtab\endL\fi}%
  \prepnext@tok}
```

7.39 color-xetex-bidi.def

```
\ProvidesFile{color-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for color package for Xe
\long\def\color@b@x#1#2#3{%
 \leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
 \setbox\z@\hbox{\kern\fboxsep{\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fboxsep}%
 \dimen@\ht\z@\advance\dimen@\fboxsep\ht\z@\dimen@
 \dimen@\dp\z@\advance\dimen@\fboxsep\dp\z@\dimen@
 {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}%
      \box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
\def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi
\DeclareRobustCommand\color{%
  \ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor}
\def\@declaredcolor#1{%
  \@ifundefined{\string\color @#1}%
    {\c@lor@error{`#1'}}%
    {\expandafter\let\expandafter\current@color
     \csname\string\color @#1\endcsname
     \set@color}%
  \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
\def\@undeclaredcolor[#1]#2{%
  \@ifundefined{color@#1}%
    {\c@lor@error{model `#1'}}%
    {\csname color@#1\endcsname\current@color{#2}%
     \set@color}%
  \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
\DeclareRobustCommand\bidicolor{%
```

```
  \@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
\def\@bidiundeclaredcolor[#1]#2{%
  \@ifundefined{color@#1}%
    {\c@lor@error{model `#1'}}%
    {\csname color@#1\endcsname\current@color{#2}%
     \set@color}%
  \ignorespaces}
\def\@bidideclaredcolor#1{%
  \@ifundefined{\string\color @#1}%
    {\c@lor@error{`#1'}}%
    {\expandafter\let\expandafter\current@color
     \csname\string\color @#1\endcsname
     \set@color}%
  \ignorespaces}
\def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
\def\color@fbox#1#2#3{%
  \color@b@x{\fboxsep\z@\bidicolor#1{#2}\fbox}{\bidicolor#1{#3}}}
\def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode
```

7.40 combine-xetex-bidi.def

```
\ProvidesFile{combine-xetex-bidi.def}[2011/09/23 v0.1 bidi adaptations for combine class for
\renewcommand{\c@ll@chapsecii}[2]{%
  \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
  \if@RTL\hskip -\rightskip\else\hskip -\leftskip\fi
  #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
}
\renewcommand{\c@ll@chapseci}{%
  \setlength\@tempdima{0em}%
  \begingroup
    \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
    \parfillskip -\@pnumwidth
    \leavevmode
}
\renewenvironment{tocindent}[1]{%
  \hangindent \if@RTL-\fi#1 \hangafter -100\relax}{}
```

7.41 crop-xetex-bidi.def

```
\ProvidesFile{crop-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for crop package for XeTe
\renewcommand*\CROP@@ulc{%
   \if@RTLmain%
       \begin{picture}(0,0)
        \unitlength\p@\thinlines
        \put(-40,0){\circle{10}}
        \put(-30,-5){\line(0,1){10}}
        \put(-35,0){\line(1,0){30}}
        \put(-10,30){\circle{10}}
        \put(-5,30){\line(1,0){10}}
        \put(0,35){\line(0,-1){30}}
    \end{picture}%
```

```
   \else%
    \begin{picture}(0,0)
        \unitlength\p@\thinlines
        \put(-30,0){\circle{10}}
        \put(-30,-5){\line(0,1){10}}
        \put(-35,0){\line(1,0){30}}
        \put(0,30){\circle{10}}
        \put(-5,30){\line(1,0){10}}
        \put(0,35){\line(0,-1){30}}
    \end{picture}%
    \fi%
}
\renewcommand*\CROP@@urc{%
   \if@RTLmain%
       \begin{picture}(0,0)
        \unitlength\p@\thinlines
        \put(20,0){\circle{10}}
        \put(30,-5){\line(0,1){10}}
        \put(35,0){\line(-1,0){30}}
        \put(-10,30){\circle{10}}
        \put(-5,30){\line(1,0){10}}
        \put(0,35){\line(0,-1){30}}
    \end{picture}%
   \else%
    \begin{picture}(0,0)
        \unitlength\p@\thinlines
        \put(30,0){\circle{10}}
        \put(30,-5){\line(0,1){10}}
        \put(35,0){\line(-1,0){30}}
        \put(0,30){\circle{10}}
        \put(-5,30){\line(1,0){10}}
        \put(0,35){\line(0,-1){30}}
    \end{picture}%
    \fi%
}
\renewcommand*\CROP@@llc{%
   \if@RTLmain%
       \begin{picture}(0,0)
        \unitlength\p@\thinlines
        \put(-40,0){\circle{10}}
        \put(-30,-5){\line(0,1){10}}
        \put(-35,0){\line(1,0){30}}
        \put(-10,-30){\circle{10}}
        \put(-5,-30){\line(1,0){10}}
        \put(0,-35){\line(0,1){30}}
    \end{picture}%
   \else%
    \begin{picture}(0,0)
        \unitlength\p@\thinlines
        \put(-30,0){\circle{10}}
```

```
        \put(-30,-5){\line(0,1){10}}
        \put(-35,0){\line(1,0){30}}
        \put(0,-30){\circle{10}}
        \put(-5,-30){\line(1,0){10}}
        \put(0,-35){\line(0,1){30}}
    \end{picture}%
    \fi%
}
\renewcommand*\CROP@@lrc{%
    \if@RTLmain%
        \begin{picture}(0,0)
        \unitlength\p@\thinlines
        \put(20,0){\circle{10}}
        \put(30,-5){\line(0,1){10}}
        \put(35,0){\line(-1,0){30}}
        \put(-10,-30){\circle{10}}
        \put(-5,-30){\line(1,0){10}}
        \put(0,-35){\line(0,1){30}}
    \end{picture}%
    \else%
    \begin{picture}(0,0)
        \unitlength\p@\thinlines
        \put(30,0){\circle{10}}
        \put(30,-5){\line(0,1){10}}
        \put(35,0){\line(-1,0){30}}
        \put(0,-30){\circle{10}}
        \put(-5,-30){\line(1,0){10}}
        \put(0,-35){\line(0,1){30}}
    \end{picture}%
    \fi%
}
\@ifpackagewith{crop}{cam}{%
\CROP@execopt{cam}%
}{}
```

7.42 cutwin-xetex-bidi.def

```
\ProvidesFile{cutwin-xetex-bidi.def}[2011/11/12 v0.1 bidi adaptations for cutwin package for
\renewcommand*{\c@twcompctr}[2]{%
  \def\c@twfirst{1}
  \loop\advance\c@twwinlines\m@ne
  \setbox\c@twslicea=\vsplit#1 to\baselineskip
  \setbox\c@twsliceb=\vsplit#1 to\baselineskip
  \c@twprune{\c@twslicea}{\c@twlftside}%
  \c@twprune{\c@twsliceb}{\c@twrtside}%
  \ifnum\c@twfirst=\@ne
    \setbox#2=\vbox{\unvbox#2\hbox
    to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\pageinwindow\hfil\if@RTL\box\c@tws
  \else
    \setbox#2=\vbox{\unvbox#2\hbox
```

```
    to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\bo
  \fi
  \def\c@twfirst{2}
  \ifnum\c@twwinlines>\z@\repeat}
\renewcommand*{\c@twcompoddctr}[2]{%
  \def\c@twrounds{1}
  \def\c@twfirst{1}
  \@for\c@twlspec:=\c@twb\do{%
    \ifnum\c@twrounds=1
      \setbox\c@twslicea=\vsplit#1 to\baselineskip % first of pair
      \c@twprune{\c@twslicea}{\c@twlspec}%
      \def\c@twrounds{2}
    \else
      \setbox\c@twsliceb=\vsplit#1 to\baselineskip % second of pair
      \c@twprune{\c@twsliceb}{\c@twlspec}%
      \ifnum\c@twfirst=1
        \setbox#2=\vbox{\unvbox#2\hbox
        to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\picinwindow\hfil\if@RTL\b
        \def\c@twfirst{2}
      \else
        \setbox#2=\vbox{\unvbox#2\hbox
        to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\els
      \fi
      \def\c@twrounds{1}
    \fi}}
```

7.43 cuted-xetex-bidi.def

```
\ProvidesFile{cuted-xetex-bidi.def}[2013/04/10 v0.3 bidi adaptations for cuted package for Xe
\def\RTL@outputdblcol{%
\if@firstcolumn \global\@firstcolumnfalse
\global\setbox\@leftcolumn \box\@outputbox
 \else
  \global\@firstcolumntrue
\setbox\@outputbox \vbox {\hbox to\textwidth {%
\hskip \columnwidth
\hfil \vrule width\columnseprule \hfil
\hbox to\columnwidth {\box\@leftcolumn \hss}%
\hskip -\textwidth
\hbox to\columnwidth{\box\@outputbox \hss}%
\hskip \columnsep
\hskip \columnwidth }}%
    \ifvoid\hold@viper
    \else
      \setbox\@outputbox \vbox to\textheight{%
                              \box\hold@viper
                              \box\@outputbox
                              \vss
                              }%
    \fi
```

```
\@combinedblfloats \@outputpage
\begingroup \@dblfloatplacement \@startdblcolumn
\@whilesw\if@fcolmade \fi
{\@outputpage \@startdblcolumn }%
      \ifvoid\@viper
      \else
        \global\setbox\@viper\vbox{%
                   \vskip-\stripsep
                   \unvbox\@viper
                   }%
        \@viperoutput
      \fi
\endgroup
\fi}
\def\LTR@outputdblcol{%
  \if@firstcolumn
    \global \@firstcolumnfalse
    \global \setbox\@leftcolumn \box\@outputbox
 \else
  \global\@firstcolumntrue
    \setbox\@outputbox \vbox {%
                          \hb@xt@\textwidth {%
                            \hb@xt@\columnwidth {%
                              \box\@leftcolumn \hss}%
                            \hfil
                            \vrule \@width\columnseprule
                            \hfil
                            \hb@xt@\columnwidth {%
                              \box\@outputbox \hss}%
                                             }%
                             }%
    \ifvoid\hold@viper
    \else
      \setbox\@outputbox \vbox to\textheight{%
                              \box\hold@viper
                              \box\@outputbox
                              \vss
                              }%
    \fi
    \@combinedblfloats
    \@outputpage
    \begingroup
      \@dblfloatplacement
      \@startdblcolumn
      \@whilesw\if@fcolmade \fi
        {\@outputpage
         \@startdblcolumn}%
      \ifvoid\@viper
      \else
        \global\setbox\@viper\vbox{%
```

```
                  \vskip-\stripsep
                  \unvbox\@viper
                  }%
        \@viperoutput
      \fi
    \endgroup
  \fi
  }
\def \@addviper {%
   \if@firstcolumn
     \@insertfalse
     \@reqcolroom .5\@pageht
     \ht@viper\@reqcolroom
     \advance \@reqcolroom \ht\@viper
     \advance \@reqcolroom \stripsep
     \ifvoid\hold@viper\@tempdima=\z@\else\@tempdima\ht\hold@viper\fi
%%
     \@tempdimb \ht@viper
     \loop
     \setbox\v@aaa\copy\@holdpg
     \setbox\v@ccc\vbox to\@tempdimb{%
               \vsplit\v@aaa to\@tempdimb\vss\vsplit\v@aaa to\@tempdimb}%
     \wlog{Extra height:\the\ht\v@aaa\space when \the\@tempdimb}%
     \ifvoid\v@aaa \else \advance\@tempdimb 1pt \repeat
     \loop
     \setbox\v@aaa\copy\@holdpg
     \setbox\v@ccc\vbox to\@tempdimb{%
               \vsplit\v@aaa to\@tempdimb\vss}%
     \wlog{(2)Left:\the\ht\v@ccc\space Right:\the\ht\v@aaa\space Output:\the\@tempdimb}%
     \ifdim \ht\v@ccc<\ht\v@aaa \@tempdimb \the\ht\v@aaa \repeat
     \wlog{- LAST -^^JLeft:\the\ht\v@ccc^^JRight:\the\ht\v@aaa^^JOutput:\the\@tempdimb}%
     \setbox\v@ccc\vbox to\@tempdimb{%
               \vsplit\@holdpg to\@tempdimb\vss}%
%%
     \setbox\@tempboxa \vbox {%
        \hb@xt@\textwidth {%
          \if@RTLmain%
          \hskip \columnwidth
           \hfil \vrule width\columnseprule \hfil
            \hb@xt@\columnwidth {%
                    \vbox to\ht@viper{\box\v@ccc\vss} \hss}%
             \hskip -\textwidth
             \hb@xt@\columnwidth {%
                    \vbox to\ht@viper{\box\@holdpg\vss} \hss}%
              \hskip \columnsep
              \hskip \columnwidth
               \else%
                \hb@xt@\columnwidth {%
                    \vbox to\ht@viper{\box\v@ccc\vss} \hss}%
                    \hfil
```

```
                \vrule \@width\columnseprule
                \hfil
                \hb@xt@\columnwidth {%
                \vbox to\ht@viper{\box\@holdpg\vss} \hss}%
                      \fi}%
                   }%
   \ifvoid\hold@viper
      \global\setbox\hold@viper \vbox {%
              \unvbox\@tempboxa
              \penalty\interlinepenalty
              \vskip\stripsep
              \ifnum\outputpenalty <-\@Mii \vskip -\parskip\fi
              \outputpenalty \z@
                      }%
   \else
      \global\setbox\hold@viper \vbox {%
              \unvbox\hold@viper
              \unvbox\@tempboxa
              \penalty\interlinepenalty
              \vskip\stripsep
              \ifnum\outputpenalty <-\@Mii \vskip -\parskip\fi
              \outputpenalty \z@
                      }%
   \fi
   \ifdim \@colroom>\@reqcolroom
      \global\setbox\hold@viper \vbox {%
              \unvbox\hold@viper
              \box\@viper
              \penalty\interlinepenalty
              \vskip\stripsep
              \ifnum\outputpenalty <-\@Mii \vskip -\parskip\fi
              \outputpenalty \z@
                      }%
      \@inserttrue
      \advance\@tempdima by-\ht\hold@viper
      \global \advance \@colht \@tempdima
      \ifdim \@colht<2.5\baselineskip
         \@latex@warning@no@line {Optional argument of \noexpand\twocolumn
              too tall on page \thepage (1 stulpelis)}%
         \@emptycol
         \if@firstcolumn
         \else
           \@emptycol
         \fi
         \global\@lastvipertrue
      \else
         \global \vsize \@colht
         \global \@colroom \@colht
         \check@floats
         \ifdim\@tempdima>\z@
```

```
                \global\advance\@colroom by-\@tempdima
          \fi
          \ifdim\@colroom<\z@
                \global\@colroom 1pt
                \ifdim\@tempdima>\@colht
                   \@latex@warning@no@line {TOP ir/ar BOT FLOAT's
                              netelpa lape \thepage (1 stulpelis)}%
                \fi
                \@emptycol
                \if@firstcolumn
                \else
                  \@emptycol
                \fi
                \global\@lastvipertrue
          \fi
       \fi
    \fi
  \else
    \@insertfalse
    \@reqcolroom\@colht
    \advance\@reqcolroom \@pageht
    \ht@viper.5\@reqcolroom
    \@reqcolroom\ht@viper
    \advance \@reqcolroom \ht\@viper
    \advance \@reqcolroom \stripsep
     \if@flushend@auto@baselineskip
       \setbox\@tempboxa\vbox{\unvcopy\@leftcolumn
         \global\lastskip@d\lastskip
         \global\lastskip@b\lastskip
         \loop
           \global\lastskip@a\lastskip@b
           \unskip\unpenalty
           \global\lastskip@b\lastskip
           \global\advance\lastskip@d by\lastskip
         \ifdim\lastskip@b=-\lastskip@a
           \global\advance\lastskip@d by-\lastskip
         \else
         \repeat
         \ifdim\lastskip@b=-\lastskip@a
           \ifdim\lastskip@b=\z@
             \setbox\lastbox@a\lastbox
             \global\advance\lastskip@d by\ht\lastbox@a
             \global\advance\lastskip@d by\lastskip
             \unskip\unpenalty
             \setbox\lastbox@a\lastbox
             \global\advance\lastskip@d by\dp\lastbox@a
           \else
             \global\lastskip@d\lastskip
             \global\advance\lastskip@d by\topskip
           \fi
```

```
          \fi
          \global\advance\lastskip@d by-\topskip
          }%
      \ifdim\ht\@holdpg>\@colht
        \global\setbox\@holdpg\vbox{\unvbox\@leftcolumn\unskip\unpenalty
          \par\eject
          \vbox to \@colht{\unvbox\@holdpg\unskip}%
          }%
      \else
        \global\setbox\@holdpg\vbox{%
          \unvbox\@leftcolumn\unskip\unpenalty
          \vskip\lastskip@d
          \the\At@ViperColsBreak
          \unvbox\@holdpg
          \unskip
          }%
      \fi
    \else
      \global\setbox\@holdpg\vbox{%
               \unvbox\@leftcolumn
               \setbox\@tempboxa\lastbox
               \on@stripcols@break
               \the\At@ViperColsBreak
               \unvbox\@holdpg
               }%
    \fi
    \global\At@ViperColsBreak{}%
    \ht@viper .5\ht\@holdpg
    \ifdim \ht@viper>\@colht
       \ht@viper \@colht
    \fi
    \ifvoid\hold@viper\@tempdima=\z@\else\@tempdima\ht\hold@viper\fi
%%
    \@tempdimb \ht@viper
    \loop
      \setbox\v@aaa\copy\@holdpg
      \setbox\v@ccc\vbox to\@tempdimb{%
               \vsplit\v@aaa to\@tempdimb
               \vss
               \vsplit\v@aaa to\@tempdimb
               }%
      \wlog{Extra height:\the\ht\v@aaa\space when \the\@tempdimb}%
    \ifvoid\v@aaa
    \else
      \advance\@tempdimb 1\p@
    \repeat
    \loop
      \setbox\v@aaa\copy\@holdpg
      \setbox\v@ccc\vbox to\@tempdimb{\vsplit\v@aaa to\@tempdimb\vss}%
      \wlog{(2)Left:\the\ht\v@ccc\space
```

```
            Right:\the\ht\v@aaa\space
           Output:\the\@tempdimb
         }%
\ifdim\ht\v@ccc<\ht\v@aaa
  \@tempdimb \the\ht\v@aaa
\repeat
\wlog{- LAST -^^JLeft:\the\ht\v@ccc
             ^^JRight:\the\ht\v@aaa
            ^^JOutput:\the\@tempdimb
     }%
\setbox\v@ccc\vbox to\@tempdimb{\vsplit\@holdpg to\@tempdimb\vss}%
\setbox\@tempboxa\vbox{%
   \hb@xt@\textwidth {%
       \hb@xt@\columnwidth{\vbox to\ht@viper{\box\v@ccc\vss} \hss}%
       \hfil
       \vrule \@width\columnseprule
       \hfil
       \hb@xt@\columnwidth {\vbox to\ht@viper{\box\@holdpg\vss} \hss}%
       }%
   }%
\ifvoid\hold@viper
   \global\setbox\hold@viper \vbox {%
           \unvbox\@tempboxa
           \penalty\interlinepenalty
           \vskip\stripsep
           \ifnum\outputpenalty <-\@Mii \vskip -\parskip\fi
           \outputpenalty \z@
                   }%
\else
   \global\setbox\hold@viper \vbox {%
           \unvbox\hold@viper
           \unvbox\@tempboxa
           \penalty\interlinepenalty
           \vskip\stripsep
           \ifnum\outputpenalty <-\@Mii \vskip -\parskip\fi
           \outputpenalty \z@
                   }%
\fi
\ifdim \@colht>\@reqcolroom
   \global\setbox\hold@viper \vbox {%
           \unvbox\hold@viper
           \box\@viper
           \penalty\interlinepenalty
           \vskip\stripsep
           \ifnum\outputpenalty <-\@Mii \vskip -\parskip\fi
           \outputpenalty \z@
                   }%
   \@inserttrue
   \global\@firstcolumntrue
   \advance\@tempdima by-\ht\hold@viper
```

```
        \global \advance \@colht \@tempdima
        \ifdim \@colht<2.5\baselineskip
            \@latex@warning@no@line {Optional argument of \noexpand\twocolumn
                                     too tall on page \thepage (2 stulpelis)}%
            \@emptycol
            \if@firstcolumn
            \else
                \@emptycol
            \fi
            \global\@lastvipertrue
        \else
            \global \vsize \@colht
            \global \@colroom \@colht
            \check@floats
            \ifdim\@tempdima>\z@
                \global\advance\@colroom by-\@tempdima
            \fi
            \ifdim\@colroom<\z@
                \global\@colroom 1pt
                \ifdim\@tempdima>\@colht
                \@latex@warning@no@line {TOP ir/ar BOT FLOAT's
                                netelpa lape \thepage (2 stulpelis)}%
                \fi
                \@emptycol
                \if@firstcolumn
                \else
                    \@emptycol
                \fi
                \global\@lastvipertrue
            \fi
        \fi
    \fi
\fi
\if@insert
\else
    \advance\@tempdima by-\ht\hold@viper
    \global \advance \@colht \@tempdima
    \global\setbox\hold@viper \vbox {%
                                      \unvbox\hold@viper
                                      \csname viper@top@hook\endcsname
                                      \vsplit\@viper to \@colht
                                      \vss
                                     }%
    \vbox{}%
    \global\@firstcolumnfalse
    \newpage
\fi
}
```

7.44 cvthemebidicasual.sty

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{cvthemebidicasual}
\DeclareOption{blue}{}
\newif\if@colourorange\@colourorangefalse
\DeclareOption{orange}{\@colourorangetrue}
\newif\if@colourgreen\@colourgreenfalse
\DeclareOption{green}{\@colourgreentrue}
\newif\if@colourred\@colourredfalse
\DeclareOption{red}{\@colourredtrue}
\newif\if@colourgrey\@colourgreyfalse
\DeclareOption{grey}{\@colourgreytrue}
\DeclareOption*{
  \PackageWarning{cvthemebidicasual}{Unknown option \CurrentOption}}
\ExecuteOptions{colour}
\ProcessOptions\relax
\renewcommand*{\listitemsymbol}{\textbullet}
\definecolor{firstnamecolor}{rgb}{0.65,0.65,0.65}
\familynamecolour{808080}
\firstnamecolour{A9A9A9}
\quotecolour{696969}
\addresscolour{696969}
\definecolor{sectionrectanglecolor}{rgb}{0.25,0.50,0.75}
\sectiontitlecolour{1E90FF}
\subsectioncolour{4682B4}
\definecolor{rulecolour}{gray}{0.6}
\definecolor{footersymbolcolour}{rgb}{0.25,0.50,0.75}
\definecolor{footersymbolcolor}{rgb}{0.25,0.50,0.75}
\if@colourorange
  \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
  \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
  \sectiontitlecolour{FF8C00}
  \subsectioncolour{FF8C00}
  \definecolor{footersymbolcolour}{rgb}{0.95,0.55,0.15}
  \definecolor{footersymbolcolor}{rgb}{0.95,0.55,0.15}\fi
\if@colourgreen
  \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
  \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
  \sectiontitlecolour{008000}
  \subsectioncolour{008000}
  \definecolor{footersymbolcolour}{rgb}{0.30,0.65,0.15}
  \definecolor{footersymbolcolor}{rgb}{0.30,0.65,0.15}\fi
\if@colourred
  \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
  \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
  \sectiontitlecolour{FF0000}
  \subsectioncolour{FF0000}
  \definecolor{footersymbolcolour}{rgb}{0.95,0.20,0.20}
  \definecolor{footersymbolcolor}{rgb}{0.95,0.20,0.20}\fi
```

```
\if@colourgrey
  \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
  \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
  \sectiontitlecolour{808080}
  \subsectioncolour{808080}
  \definecolor{footersymbolcolour}{rgb}{0.35,0.35,0.35}
  \definecolor{footersymbolcolor}{rgb}{0.35,0.35,0.35}\fi
\renewcommand*{\ttdefault}{pcr}
\renewcommand*{\firstnamefont}{\fontsize{38}{40}\mdseries\upshape}
\renewcommand*{\familynamefont}{\firstnamefont}
\renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
\renewcommand*{\quotefont}{\large\slshape}
\renewcommand*{\sectionfont}{\Large\mdseries\upshape}
\renewcommand*{\subsectionfont}{\large\mdseries\upshape}
\renewcommand*{\maketitle}{%
  {%
    \ifthenelse{\isundefined{\@photo}}%
      {}%
      {{\color{firstnamecolor}\framebox{\includegraphics[width=\@photowidth]{\@photo}}}}%
    \hfill%
    \bidi@raggedleft{\firstnamestyle{\@firstname}~\familynamestyle{\@familyname}}\\[-.35em]}%
   {\color{firstnamecolor}\rule{\textwidth}{.25ex}\\[2.5em]}%
  \ifthenelse{\isundefined{\@quote}}%
    {}%
    {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\\[
  }%
\newif\if@firstfooterelement\@firstfooterelementtrue
\providecommand*{\footersymbol}{}
\renewcommand*{\footersymbol}{%
  \if@firstfooterelement%
  \else%
    { ~~\color{footersymbolcolor}\textbullet~~~}\fi}
\providecommand*{\makefooter}{}
\renewcommand*{\makefooter}{%
  \fancypagestyle{plain}{%
    \fancyfoot[c]{%
      \parbox{0.8\textwidth}{%
      \centering%
      \addressfont\@addresscolour%
      \ifthenelse{\isundefined{\@address}}{}{%
        \addresssymbol~\@address\\%
        \@firstfooterelementfalse}%
      \ifthenelse{\isundefined{\@mobile}}{}{\mobilesymbol~\@mobile\@firstfooterelementfalse}%
      \ifthenelse{\isundefined{\@phone}}{}{\footersymbol\phonesymbol~\@phone\@firstfooterelem
      \ifthenelse{\isundefined{\@fax}}{}{\footersymbol\faxsymbol~\@fax\@firstfooterelementfal
      \ifthenelse{\isundefined{\@email}}{}{\footersymbol\emailsymbol~\emaillink{\@email}\@fir
      \ifthenelse{\isundefined{\@extrainfo}}{}{\footersymbol\@extrainfo\@firstfooterelementfa
  }%
  \pagestyle{plain}}
\AtBeginDocument{\makefooter}
```

7.45 cvthemebidiclassic.sty

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{cvthemebidiclassic}
\DeclareOption{blue}{}
\newif\if@colourorange\@colourorangefalse
\DeclareOption{orange}{\@colourorangetrue}
\newif\if@colourgreen\@colourgreenfalse
\DeclareOption{green}{\@colourgreentrue}
\newif\if@colourred\@colourredfalse
\DeclareOption{red}{\@colourredtrue}
\newif\if@colourgrey\@colourgreyfalse
\DeclareOption{grey}{\@colourgreytrue}
\DeclareOption*{
  \PackageWarning{cvthemebidiclassic}{Unknown option \CurrentOption}}
\ExecuteOptions{colour}
\ProcessOptions\relax
\renewcommand*{\listitemsymbol}{\textbullet}
\firstnamecolour{}
\familynamecolour{}
\titlecolour{808080}
\quotecolour{696969}
\addresscolour{696969}
\definecolor{sectionrectanglecolour}{rgb}{0.25,0.50,0.75}
\definecolor{sectionrectanglecolor}{rgb}{0.25,0.5,0.75}
\sectiontitlecolour{1E90FF}
\subsectioncolour{4682B4}
\if@colourorange
  \addresscolour{FF8C00}
  \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
  \definecolor{sectionrectanglecolor}{rgb}{1,0.65,0.20}
  \sectiontitlecolour{FF8C00}
  \subsectioncolour{FF8C00}\fi
\if@colourgreen
  \addresscolour{008000}
  \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
  \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
  \sectiontitlecolour{008000}
  \subsectioncolour{008000}\fi
\if@colourred
  \addresscolour{FF0000}
  \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
  \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
  \sectiontitlecolour{FF0000}
  \subsectioncolour{FF0000}\fi
\if@colourgrey
  \addresscolour{808080}
  \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
  \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
  \sectiontitlecolour{808080}
```

```
  \subsectioncolour{808080}\fi
\renewcommand*{\ttdefault}{pcr}
\renewcommand*{\firstnamefont}{\fontsize{34}{36}\mdseries\upshape}
\renewcommand*{\titlefont}{\LARGE\mdseries\slshape}
\renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
\renewcommand*{\familynamefont}{\firstnamefont}
\renewcommand*{\quotefont}{\large\slshape}
\renewcommand*{\sectionfont}{\Large\mdseries\upshape}
\renewcommand*{\subsectionfont}{\large\mdseries\upshape}
\newlength{\maketitlenamemaxwidth}
\setlength{\maketitlenamemaxwidth}{.525\textwidth}
\newlength{\maketitlenamefullwidth}
\settowidth{\maketitlenamefullwidth}{\firstnamestyle{\@firstname~}\familynamestyle{\@familyna
\newlength{\maketitlenamewidth}
\ifnum\maketitlenamemaxwidth<\maketitlenamefullwidth\setlength{\maketitlenamewidth}{\maketitl
\newlength{\maketitlepicturewidth}
\setlength{\maketitlepicturewidth}{\@photowidth}
\newlength{\maketitledetailswidth}
\renewcommand*{\recomputethemelengths}{%
  \setlength{\maketitledetailswidth}{\textwidth}%
  \addtolength{\maketitledetailswidth}{-\maketitlenamewidth}%
  \addtolength{\maketitledetailswidth}{-\separatorcolumnwidth}%
  \addtolength{\maketitledetailswidth}{-\maketitlepicturewidth}}
\recomputethemelengths
\newif\if@firstdetailselement\@firstdetailselementtrue
\newcommand*{\maketitledetailsnewline}{
  \if@firstdetailselement%
    \@firstdetailselementfalse%
  \else%
    \\[.2em]\fi}
\renewcommand*{\maketitle}{%
  % name and title
  \begin{minipage}[b]{\maketitlenamewidth}%
    \firstnamestyle{\@firstname~}\familynamestyle{\@familyname}%
    \ifthenelse{\equal{\@title}{}}{}{\\[1.25em]\titlestyle{\@title}}%
  \end{minipage}%
  % optional data
  \begin{minipage}[b]{\maketitledetailswidth}%
    \bidi@raggedleft\addressfont\@addresscolour%
   \ifthenelse{\isundefined{\@address}}{}{%
      \maketitledetailsnewline%
      \addresssymbol~\\\@address}%
    \ifthenelse{\isundefined{\@mobile}}{}{\maketitledetailsnewline\mobilesymbol~\@mobile}%
    \ifthenelse{\isundefined{\@phone}}{}{\maketitledetailsnewline\phonesymbol~\@phone}%
    \ifthenelse{\isundefined{\@fax}}{}{\maketitledetailsnewline\faxsymbol~\@fax}%
    \ifthenelse{\isundefined{\@email}}{}{\maketitledetailsnewline\emailsymbol~\emaillink{\@em
    \ifthenelse{\isundefined{\@extrainfo}}{}{\maketitledetailsnewline\@extrainfo}%
  \end{minipage}%
  % optional photo
  \ifthenelse{\isundefined{\@photo}}%
```

```
    {}%
    {\hspace*{\separatorcolumnwidth}\color{firstnamecolor}\framebox{\includegraphics[width=\m
  % optional quote
  \ifthenelse{\isundefined{\@quote}}%
    {}%
    {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\\[
  }
```

7.46 dblfnote-xetex-bidi.def

```
\ProvidesFile{dblfnote-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for dblfnote package
\let\autofootnoterule\relax
\let\rightfootnoterule\relax
\let\leftfootnoterule\relax
\let\textwidthfootnoterule\relax
\let\LRfootnoterule\relax
\def\footnoterule{\kern-3\p@
  \hrule \@width  \DFNcolumnwidth \kern 2.6\p@}%
\AtBeginDocument{\let\dfn@latex@footnotetext\@footnotetext
\let\@footnotetext\dfn@footnotetext}
\long\def\dfn@LTRfootnotetext#1{{\setbox\dfn@boxa\vbox{
        \let\insert\dfn@gobble
        \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
        \def\@makefnmark{\smash{\dfn@makefnmark}}
        \dfn@latex@LTRfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
        \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
        \ifdim\dfn@dima>\z@\else
                \dfn@dima1sp\relax
                \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
        \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
                \ifvoid\dfn@ins\else
                        \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
                \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
        \setbox\dfn@boxa\copy\dfn@ins
        \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
        \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
        \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
        \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
        \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
\AtBeginDocument{\let\dfn@latex@LTRfootnotetext\@LTRfootnotetext
\let\@LTRfootnotetext\dfn@LTRfootnotetext}
\long\def\dfn@RTLfootnotetext#1{{\setbox\dfn@boxa\vbox{
        \let\insert\dfn@gobble
        \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
        \def\@makefnmark{\smash{\dfn@makefnmark}}
        \dfn@latex@RTLfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
        \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
        \ifdim\dfn@dima>\z@\else
                \dfn@dima1sp\relax
                \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
```

```
        \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
                \ifvoid\dfn@ins\else
                        \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
                \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
        \setbox\dfn@boxa\copy\dfn@ins
        \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
        \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
        \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
        \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
        \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
\AtBeginDocument{\let\dfn@latex@RTLfootnotetext\@RTLfootnotetext
\let\@RTLfootnotetext\dfn@RTLfootnotetext}
\def\dfn@RTLmakecol{{\ifvoid\footins\else
        \dfn@dima\ht\footins
        \@tempcnta\z@ \dfn@countins
        \@tempdima\z@ \let\@elt\dfn@elt@getht
        \dfn@list\@nil
        \ifdim\@tempdima=\z@\else
        \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
        \global\setbox\dfn@ins\box\dfn@ins
        \@tempswatrue
        \ifdfn@trysingle
                \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
                \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
                \advance\@tempdima-\skip\footins
                \advance\@tempdima-\ht\dfn@boxa
                \ifdim\@tempdima<\z@\else \@tempswafalse
                        \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
                                \footnoterule \unvbox\dfn@boxa}\fi\fi
        \if@tempswa
        \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
        \global\setbox\footins\vbox{\hbox{%
                 \hskip \DFNcolumnwidth
                 \hskip\DFNcolumnsep
                \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
                        \unvbox\dfn@boxb\vss}\hss}
                \hskip -\textwidth
                \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
                        \vbox to\@tempdima{
                                \setbox\@tempboxa\vbox{\footnoterule}
                                \ifdfn@ruleboth \unvbox\@tempboxa
                                \else \@tempdima\ht\@tempboxa
                                        \advance\@tempdima\dp\@tempboxa
                                        \vskip\@tempdima
                                        \prevdepth\dp\@tempboxa \fi
                                \unvbox\dfn@boxa\vss}\fi\hss}
                                 \hskip \DFNcolumnsep
                                 \hskip \DFNcolumnwidth}}\fi\fi
        \global\dfn@fnht\z@
        \ifx\dfn@list\@empty\else
```

```
                \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
                \dfn@list \global\advance\dfn@fnht\dfn@dimb
                \let\@elt\relax
                \ifdim\dfn@dimb>\z@
                        \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
                        \insert\footins{\floatingpenalty\@MM
                                \vbox to\dfn@dimb{}}\fi
                \ifdim\dfn@fnht>\@tempdima
                        \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
                        \global\dfn@fnht\@tempdima
                        \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
                        \xdef\dfn@afteroutput{\insert\footins{
                                        \floatingpenalty\@MM
                                        \vbox to\number\@tempdimb sp{}}%
                                \global\let\noexpand\dfn@afteroutput\relax}%
                \fi\fi
        \fi}%
        \let\footnoterule\relax \dfn@latex@makecol
        \let\footnoterule\dfn@footnoterule}
\def\dfn@LTRmakecol{{\ifvoid\footins\else
        \dfn@dima\ht\footins
        \@tempcnta\z@ \dfn@countins
        \@tempdima\z@ \let\@elt\dfn@elt@getht
        \dfn@list\@nil
        \ifdim\@tempdima=\z@\else
        \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
        \global\setbox\dfn@ins\box\dfn@ins
        \@tempswatrue
        \ifdfn@trysingle
                \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
                \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
                \advance\@tempdima-\skip\footins
                \advance\@tempdima-\ht\dfn@boxa
                \ifdim\@tempdima<\z@\else \@tempswafalse
                        \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
                                \footnoterule \unvbox\dfn@boxa}\fi\fi
        \if@tempswa
        \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
        \global\setbox\footins\vbox{\hbox{%
                \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
                        \unvbox\dfn@boxb\vss}\hss}\hskip\DFNcolumnsep
                \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
                        \vbox to\@tempdima{
                                \setbox\@tempboxa\vbox{\footnoterule}
                                \ifdfn@ruleboth \unvbox\@tempboxa
                                \else \@tempdima\ht\@tempboxa
                                        \advance\@tempdima\dp\@tempboxa
                                        \vskip\@tempdima
                                        \prevdepth\dp\@tempboxa \fi
                                \unvbox\dfn@boxa\vss}\fi\hss}}}\fi\fi
```

```
        \global\dfn@fnht\z@
        \ifx\dfn@list\@empty\else
                \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
                \dfn@list \global\advance\dfn@fnht\dfn@dimb
                \let\@elt\relax
                \ifdim\dfn@dimb>\z@
                        \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
                        \insert\footins{\floatingpenalty\@MM
                                \vbox to\dfn@dimb{}}\fi
                \ifdim\dfn@fnht>\@tempdima
                        \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
                        \global\dfn@fnht\@tempdima
                        \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
                        \xdef\dfn@afteroutput{\insert\footins{
                                        \floatingpenalty\@MM
                                        \vbox to\number\@tempdimb sp{}}%
                                \global\let\noexpand\dfn@afteroutput\relax}%
                \fi\fi
        \fi}%
        \let\footnoterule\relax \dfn@latex@makecol
        \let\footnoterule\dfn@footnoterule}
\renewcommand{\dfn@makecol}{\if@RTLmain\dfn@RTLmakecol\else\dfn@LTRmakecol\fi}
\newcommand{\RTLdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@RTLmakecol}}
\newcommand{\LTRdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@LTRmakecol}}
\DFNalwaysdouble
```

7.47 draftwatermark-xetex-bidi.def

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

7.48 eso-pic-xetex-bidi.def

```
\ProvidesFile{eso-pic-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for eso-pic package fo
\renewcommand\AtPageLowerLeft[1]{\AtPageUpperLeft{%
  \put(\LenToUnit{\if@RTLmain\paperwidth\else0pt\fi},\LenToUnit{-\paperheight}){#1}}}

\ESO@isMEMOIR{%
  \renewcommand\AtTextUpperLeft[1]{%
    \begingroup
      \ifodd\c@page
        \@tempdima=\spinemargin
      \else
        \@tempdima=\paperwidth
        \advance\@tempdima-\textwidth
        \advance\@tempdima-\spinemargin
      \fi
      \@tempdimb=-\uppermargin
      \AtPageUpperLeft{%
        \put(\LenToUnit{\if@RTLmain-\fi\@tempdima},\LenToUnit{\@tempdimb}){#1}%
```

```
      }%
    \endgroup
  }
}{%
  \renewcommand\AtTextUpperLeft[1]{%
    \begingroup
      \@tempdima=1in\relax
      \ifodd\c@page
        \advance\@tempdima\oddsidemargin
      \else
        \advance\@tempdima\evensidemargin
      \fi
      \@tempdimb=-1in\relax
      \advance\@tempdimb-\topmargin
      \advance\@tempdimb-\headheight
      \advance\@tempdimb-\headsep
      \AtPageUpperLeft{%
        \put(\LenToUnit{\if@RTLmain-\fi\@tempdima},\LenToUnit{\@tempdimb}){#1}%
      }%
    \endgroup
  }
}
```

7.49 empheq-xetex-bidi.def

```
\ProvidesFile{empheq-xetex-bidi.def}[2011/09/07 v0.1 bidi adaptations for empheq package for
\MHInternalSyntaxOn
\def\EQ_tag_plus_endmark:{%
  \iftagsleft@
    \gdef\maketag@@@##1{%
      \hfuzz\displaywidth
      \if@RTL\makebox[\widthof{##1}][r]{%
        \hbox to \displaywidth{\m@th\normalfont##1\hss
          \raisebox{-\dp\EQ_mathdisplay_box
                    -\depthof{\EQ_outerbox:{}}}
                   {\PotEndMark{\hss}}}}
      \else\makebox[\widthof{##1}][l]{%
        \hbox to \displaywidth{\m@th\normalfont##1\hss
          \raisebox{-\dp\EQ_mathdisplay_box
                    -\depthof{\EQ_outerbox:{}}}
                   {\PotEndMark{\hss}}}}\fi}%
  \else:
    \gdef\maketag@@@##1{%
      \hbox{\m@th\normalfont##1\llap{\hss\PotEndMark{%
        \settoheight{\@tempdima}{\@nameuse{\InTheoType Symbol}}%
        \MH_addtolength:dn \@tempdima
          {\g_EQ_bottomtag_depth_dim+\mintagvsep}
        \setlength{\@tempdimb}
          {\g_EQ_bottomrow_depth_dim+\depthof{\EQ_outerbox:{}}
            +\depthof{\EQ_innerbox:{}}}
```

```
        \if_dim:w \@tempdima>\@tempdimb
          \MH_setlength:dn \@tempdima{-\dp\EQ_mathdisplay_box
            -\@tempdima+\g_EQ_bottomrow_depth_dim}
          \addtolength{\@tempdima}{\depthof{\EQ_innerbox:{}}}%
          \def\EQ_next:{\raisebox{\@tempdima}}%
        \else:
          \def\EQ_next:{
            \raisebox{-\dp\EQ_mathdisplay_box
                      -\depthof{\EQ_outerbox:{}}}}%
        \fi:\EQ_next:}}}}%
  \fi:}
\def\EQ_post_process:{%
  \EQ_initialize:
  \EQ_begin_equation:
  \MH_if_boolean:nT {outer_mult}{
    \setkeys{\MT_options_name:}{
      firstline-afterskip=0pt,
      lastline-preskip=0pt,
      multlined-width=0pt,
    }
    \ifodd \l_EQ_alignmentmode_int
      \setkeys{\MT_options_name:}{multlined-pos=b}
    \else:
      \setkeys{\MT_options_name:}{multlined-pos=t}
    \fi:
      \g@addto@macro\EQ_complete_mathdisplay:{
        \begin{MTmultlined}\relax}
  }
  \g@addto@macro\EQ_complete_mathdisplay:\EQ_mathbody:
  \MH_if_boolean:nT {outer_mult}{
    \g@addto@macro\EQ_complete_mathdisplay:{\end{MTmultlined}}
  }
  \EQ_end_equation:
  \edef\EQ_hyperref_link_fint{\number\Hy@linkcounter}
  \savecounters@
  \EQ_typeset_tags:
  \edef\l_EQ_equation_fint{\number\c@equation}
  \restorecounters@
  \Hy@linkcounter=\EQ_hyperref_link_fint
  \settowidth\l_EQ_totalwidth_dim{%
    $\EQ_left_side:\EQ_innerbox:{}\EQ_right_side:$}%
  \MH_if_boolean:nTF {outer_mult}
    { \def\EQ_next:{_mult} }
    { \def\EQ_next:{} }
  \@nameuse{EQ_modify_linewidth_
            \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
  \EQ_typeset_display:
  \@nameuse{find_displaywidth_
           \romannumeral\l_EQ_equationtype_int\EQ_next: :}
  \MH_addtolength:dn
```

```
  \l_EQ_totalwidth_dim{\l_EQ_displaywidth_dim}
\savebox\EQ_mathdisplay_box[\l_EQ_totalwidth_dim][c]{%
  $\EQ_left_side:
  \EQ_innerbox:{%
    \if_case:w \l_EQ_alignmentmode_int\or:
      \makebox[\l_EQ_displaywidth_dim][c]
        {\usebox{\EQ_mathdisplay_box}}%
    \or:
      \makebox[\l_EQ_displaywidth_dim][c]
        {\usebox{\EQ_mathdisplay_box}}%
    \or:
      \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
        \if_num:w \l_EQ_equationtype_int=5 \else:
          \if_num:w \l_EQ_equationtype_int=6 \else:
            \kern-\@mathmargin
          \fi:
        \fi:
        \usebox{\EQ_mathdisplay_box}}%
      \else\makebox[\l_EQ_displaywidth_dim][l]{%
        \if_num:w \l_EQ_equationtype_int=5 \else:
          \if_num:w \l_EQ_equationtype_int=6 \else:
            \kern-\@mathmargin
          \fi:
        \fi:
        \usebox{\EQ_mathdisplay_box}}\fi%
    \or:
      \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
        \if_num:w \l_EQ_equationtype_int=5 \else:
          \if_num:w \l_EQ_equationtype_int=6 \else:
            \kern-\@mathmargin
          \fi:
        \fi:
        \usebox{\EQ_mathdisplay_box}}
      \else\makebox[\l_EQ_displaywidth_dim][l]{%
        \if_num:w \l_EQ_equationtype_int=5 \else:
          \if_num:w \l_EQ_equationtype_int=6 \else:
            \kern-\@mathmargin
          \fi:
        \fi:
        \usebox{\EQ_mathdisplay_box}}\fi%
    \fi:}%
  \EQ_right_side:$}%
\begin{AmSequation*}
\@nameuse{EQ_place_display_
         \romannumeral\l_EQ_equationtype_int\EQ_next: :}
\if_dim:w \g_EQ_widesttag_dim>\z@
\MH_set_boolean_T:n {show_manual_tags}
  \if_case:w \l_EQ_alignmentmode_int
  \or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#1
  \or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#2
```

```
    \or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#3
    \or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#4
    \fi:
  \fi:
  \end{AmSequation*}
  \global\c@equation=\l_EQ_equation_fint\relax
}
\AtBeginDocument{%
  \@ifpackageloaded{fancybox}{%
    \@ifpackageloaded{color}{\definecolor{shadowcolor}{rgb}{0,0,0}}%
    {\renewcommand*\textcolor[2]{\normalcolor{#2}}}%
    \renewcommand*\shadowbox{%
      \@ifstar{\MH_set_boolean_T:n {shadowbox_star}
               \VerbBox\EQ_shadowbox:n}
              {\MH_set_boolean_F:n {shadowbox_star}
               \VerbBox\EQ_shadowbox:n}}
    \def\EQ_shadowbox:n #1{%
      \sbox{\z@}{\fbox{#1}}%
      \MH_if_boolean:nTF {shadowbox_star}{
        \MH_setlength:dn \@tempdima{\z@}%
      }{
        \MH_setlength:dn \@tempdima{\dp\z@+\shadowsize}%
      }
      \raisebox{\@tempdima}{%
        \if@RTL\makebox[\z@][r]{%
          \kern\shadowsize \textcolor{shadowcolor}{%
            \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
        }%
        \else\makebox[\z@][l]{%
          \kern\shadowsize \textcolor{shadowcolor}{%
            \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
        }\fi%
        \usebox\z@\textcolor{shadowcolor}{%
          \rule[-\dp\z@-\shadowsize]{\shadowsize}{\ht\z@+\dp\z@}}}}%
  }{}%
}
\MHInternalSyntaxOff
```

7.50 extarticle-xetex-bidi.def

```
\ProvidesFile{extarticle-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for extarticle clas
\renewcommand*\l@section[2]{%
  \ifnum \c@tocdepth >\z@
    \addpenalty\@secpenalty
    \addvspace{1.0em \@plus\p@}%
    \setlength\@tempdima{1.5em}%
    \begingroup
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      \leavevmode \bfseries
```

```
      \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
      \hskip -\if@RTL\rightskip\else\leftskip\fi
      #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
    \endgroup
  \fi}
  \renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >-2\relax
    \addpenalty\@secpenalty
    \addvspace{2.25em \@plus\p@}%
    \begingroup
      \setlength\@tempdima{3em}%
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      {\leavevmode
       \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
       \nobreak
    \endgroup
  \fi}
  \def\@part[#1]#2{%
    \ifnum \c@secnumdepth >\m@ne
      \refstepcounter{part}%
      \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
    \else
      \addcontentsline{toc}{part}{#1}%
    \fi
    {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
     \interlinepenalty \@M
     \normalfont
     \ifnum \c@secnumdepth >\m@ne
       \Large\bfseries \partname~\thepart
       \par\nobreak
     \fi
     \huge \bfseries #2%
     \markboth{}{}\par}%
    \nobreak
    \vskip 3ex
    \@afterheading}
 \def\@spart#1{%
    {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
     \interlinepenalty \@M
     \normalfont
     \huge \bfseries #1\par}%
     \nobreak
     \vskip 3ex
     \@afterheading}
\renewenvironment{thebibliography}[1]
     {\section*{\refname
        \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}}%
         \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
         \list{\@biblabel{\@arabic\c@enumiv}}%
```

```
           {\settowidth\labelwidth{\@biblabel{#1}}%
            \leftmargin\labelwidth
            \advance\leftmargin\labelsep
            \@openbib@code
            \usecounter{enumiv}%
            \let\p@enumiv\@empty
            \renewcommand\theenumiv{\@arabic\c@enumiv}}%
      \sloppy\clubpenalty4000\widowpenalty4000%
      \sfcode`\.\@m}
     {\def\@noitemerr
       {\@latex@warning{Empty `thebibliography' environment}}%
      \endlist}
\renewcommand\left@footnoterule{%
  \kern-3\p@
  \hrule\@width.4\columnwidth
  \kern2.6\p@}
\renewcommand\right@footnoterule{%
  \hbox to \columnwidth
  {\beginR \vbox{%
  \kern-3\p@
  \hrule\@width.4\columnwidth
  \kern2.6\p@}\hfil\endR}}
    \if@titlepage
  \renewcommand\maketitle{\begin{titlepage}%
  \let\footnotesize\small
  \let\right@footnoterule\relax
  \let\left@footnoterule\relax
  \let\textwidth@footnoterule\relax
  \let \footnote \thanks
  \null\vfil
  \vskip 60\p@
  \begin{center}%
    {\LARGE \@title \par}%
    \vskip 3em%
    {\large
     \lineskip .75em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
      \vskip 1.5em%
    {\large \@date \par}%       % Set date in \large size.
  \end{center}\par
  \@thanks
  \vfil\null
  \end{titlepage}%
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
```

```
  \global\let\@date\@empty
  \global\let\@title\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\else
\renewcommand\maketitle{\par
  \begingroup
    \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
    \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
    \long\def\@makefntext##1{\parindent 1em\noindent
            \hb@xt@1.8em{%
                \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
    \if@twocolumn
      \ifnum \col@number=\@ne
        \@maketitle
      \else
        \twocolumn[\@maketitle]%
      \fi
    \else
      \newpage
      \global\@topnum\z@   % Prevents figures from going at top of page.
      \@maketitle
    \fi
    \thispagestyle{plain}\@thanks
  \endgroup
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\maketitle\relax
  \global\let\@maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty
  \global\let\@title\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\def\@maketitle{%
  \newpage
  \null
  \vskip 2em%
  \begin{center}%
  \let \footnote \thanks
    {\LARGE \@title \par}%
    \vskip 1.5em%
    {\large
```

```
      \lineskip .5em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
    \vskip 1em%
    {\large \@date}%
  \end{center}%
  \par
  \vskip 1.5em}
\fi
\renewcommand\thesubsection   {\thesection\@SepMark\@arabic\c@subsection}
\renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
\renewcommand\theparagraph    {\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}%%
```

7.51 extbook-xetex-bidi.def

```
\ProvidesFile{extbook-xetex-bidi.def}[2010/07/25 v0.3 bidi adaptations for extbook class for
  \if@titlepage
  \renewcommand\maketitle{\begin{titlepage}%
  \let\footnotesize\small
  \let\right@footnoterule\relax
  \let\left@footnoterule\relax
  \let\textwidth@footnoterule\relax
  \let \footnote \thanks
  \let \LTRfootnote \LTRthanks
  \let \RTLfootnote \RTLthanks
  \null\vfil
  \vskip 60\p@
  \begin{center}%
    {\LARGE \@title \par}%
    \vskip 3em%
    {\large
     \lineskip .75em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
      \vskip 1.5em%
    {\large \@date \par}%       % Set date in \large size.
  \end{center}\par
  \@thanks
  \vfil\null
  \end{titlepage}%
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\LTRthanks\relax
  \global\let\RTLthanks\relax
  \global\let\maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
```

```
  \global\let\@date\@empty
  \global\let\@title\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\else
\renewcommand\maketitle{\par
  \begingroup
    \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
    \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
    \long\def\@makefntext##1{\parindent 1em\noindent
            \hb@xt@1.8em{%
                \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
    \if@twocolumn
      \ifnum \col@number=\@ne
        \@maketitle
      \else
        \twocolumn[\@maketitle]%
      \fi
    \else
      \newpage
      \global\@topnum\z@   % Prevents figures from going at top of page.
      \@maketitle
    \fi
    \thispagestyle{plain}\@thanks
  \endgroup
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\LTRthanks\relax
  \global\let\RTLthanks\relax
  \global\let\maketitle\relax
  \global\let\@maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty
  \global\let\@title\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\def\@maketitle{%
  \newpage
  \null
  \vskip 2em%
  \begin{center}%
  \let \footnote \thanks
  \let \LTRfootnote \LTRthanks
```

```
  \let \RTLfootnote \RTLthanks
    {\LARGE \@title \par}%
    \vskip 1.5em%
    {\large
      \lineskip .5em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
    \vskip 1em%
    {\large \@date}%
  \end{center}%
  \par
  \vskip 1.5em}
\fi
\renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >-2\relax
    \addpenalty{-\@highpenalty}%
    \addvspace{2.25em \@plus\p@}%
    \begingroup
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      {\leavevmode
       \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
       \nobreak
         \global\@nobreaktrue
         \everypar{\global\@nobreakfalse\everypar{}}%
    \endgroup
  \fi}
\renewcommand\theequation
  {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
\renewcommand \thefigure
     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
\renewcommand \thetable
     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
\renewcommand \thechapter {\@arabic\c@chapter}
\renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
\renewcommand\thesubsection   {\thesection\@SepMark\@arabic\c@subsection}
\renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
\renewcommand\theparagraph    {\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
\def\@makechapterhead#1{%
  \vspace*{50\p@}%
  {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
    \ifnum \c@secnumdepth >\m@ne
      \if@mainmatter
        \huge\bfseries \@chapapp\space \thechapter
        \par\nobreak
        \vskip 20\p@
      \fi
    \fi
```

```
    \interlinepenalty\@M
    \Huge \bfseries #1\par\nobreak
    \vskip 40\p@
  }}

\def\@makeschapterhead#1{%
  \vspace*{50\p@}%
  {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
    \normalfont
    \interlinepenalty\@M
    \Huge \bfseries  #1\par\nobreak
    \vskip 40\p@
  }}
\renewcommand\backmatter{%
  \if@openright
    \cleardoublepage
  \else
    \clearpage
  \fi
  \@mainmatterfalse}
\renewenvironment{thebibliography}[1]
     {\chapter*{\bibname
        \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
      \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
      \list{\@biblabel{\@arabic\c@enumiv}}%
           {\settowidth\labelwidth{\@biblabel{#1}}%
            \leftmargin\labelwidth
            \advance\leftmargin\labelsep
            \@openbib@code
            \usecounter{enumiv}%
            \let\p@enumiv\@empty
            \renewcommand\theenumiv{\@arabic\c@enumiv}}%
      \sloppy
      \clubpenalty4000
      \@clubpenalty \clubpenalty
      \widowpenalty4000%
      \sfcode`\.\@m}
     {\def\@noitemerr
       {\@latex@warning{Empty `thebibliography' environment}}%
      \endlist}
```

7.52 extletter-xetex-bidi.def

```
\ProvidesFile{extletter-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for extletter class
\renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
  \thispagestyle{firstpage}%
    {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
  \else  % home address
    \thispagestyle{empty}%
    {\if@RTL\raggedright\begin{tabular}{r@{}}\else\raggedleft\begin{tabular}{l@{}}\fi\ignores
```

```
      \fromaddress \\*[2\parskip]%
      \@date \end{tabular}\par}%
  \fi
  \vspace{2\parskip}%
  {\if@RTL\raggedleft\else\raggedright\fi \toname \\ \toaddress \par}%
  \vspace{2\parskip}%
  #1\par\nobreak}
\renewcommand{\closing}[1]{\par\nobreak\vspace{\parskip}%
  \stopbreaks
  \noindent
  \ifx\@empty\fromaddress\else
  \hspace*{\longindentation}\fi
  \parbox{\indentedwidth}{\if@RTL\raggedleft\else\raggedright\fi
       \ignorespaces #1\\[6\medskipamount]%
       \ifx\@empty\fromsig
           \fromname
       \else \fromsig \fi\strut}%
   \par}
\renewcommand\left@footnoterule{%
  \kern-\p@
  \hrule \@width .4\columnwidth
  \kern .6\p@}
\renewcommand\right@footnoterule{%
  \hbox to \columnwidth
  {\beginR \vbox{%
  \kern-\p@
  \hrule \@width .4\columnwidth
  \kern .6\p@}\hfil\endR}}
```

7.53 extrafootnotefeatures-xetex-bidi.def

```
\ProvidesFile{extrafootnotefeatures-xetex-bidi.def}[2012/12/12 v0.4 bidi extra footnote featu
\let\autofootnoterule\relax
\let\rightfootnoterule\relax
\let\leftfootnoterule\relax
\let\textwidthfootnoterule\relax
\let\LRfootnoterule\relax
\def\footnoterule{\kern-3\p@
  \hrule \@width \columnwidth \kern 2.6\p@}
\bidi@ensure@newcommand{\setRTLparagraphfootnotes}{\@parafootRTLtrue}
\bidi@ensure@newcommand{\setLTRparagraphfootnotes}{\@parafootRTLfalse}
\renewcommand{\@footnotetext}[1]{%
    \insert\footins{%
    \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font
    \foottextfont
    \@preamfntext
    \hsize\columnwidth
    \protected@edef\@currentlabel{%
```

```
      \csname p@footnote\endcsname\@thefnmark}%
    \color@begingroup
      \@makefntext{%
        \rule\z@\footnotesep\ignorespaces{\foottextfont #1}%
        \@finalstrut\strutbox}%
    \color@endgroup}%
      \m@mmf@prepare}
\renewcommand{\@RTLfootnotetext}[1]{%
    \insert\footins{%
    \@RTLtrue%
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font
    \RTLfoottextfont
    \@preamfntext
    \hsize\columnwidth
    \protected@edef\@currentlabel{%
      \csname p@footnote\endcsname\@thefnmark}%
    \color@begingroup
      \@makefntext{%
        \rule\z@\footnotesep\ignorespaces{\RTLfoottextfont #1}%
        \@finalstrut\strutbox}%
    \color@endgroup}%
      \m@mmf@prepare}
\renewcommand{\@LTRfootnotetext}[1]{%
    \insert\footins{%
    \@RTLfalse%
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font
    \LTRfoottextfont
    \@preamfntext
    \hsize\columnwidth
    \protected@edef\@currentlabel{%
      \csname p@footnote\endcsname\@thefnmark}%
    \color@begingroup
      \@makefntext{%
        \rule\z@\footnotesep\ignorespaces{\LTRfoottextfont #1}%
        \@finalstrut\strutbox}%
    \color@endgroup}%
      \m@mmf@prepare}
\renewcommand{\@mpfootnotetext}[1]{%
  \global\setbox\@mpfootins\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
    \unvbox\@mpfootins
    \def\baselinestretch{\m@m@footnote@spacing}%
    \foottextfont \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
  \reset@font%
    \@makefntext{%
      \rule\z@\footnotesep\ignorespaces{\foottextfont #1}%
```

```
      \@finalstrut\strutbox}%
  \color@endgroup}}
\renewcommand{\@mpLTRfootnotetext}[1]{%
  \global\setbox\@mpfootins\vbox{\@RTLfalse%
    \unvbox\@mpfootins
    \def\baselinestretch{\m@m@footnote@spacing}%
    \LTRfoottextfont \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
  \reset@font%
    \@makefntext{%
      \rule\z@\footnotesep\ignorespaces{\LTRfoottextfont #1}%
      \@finalstrut\strutbox}%
  \color@endgroup}}
\renewcommand{\@mpRTLfootnotetext}[1]{%
  \global\setbox\@mpfootins\vbox{\@RTLtrue%
    \unvbox\@mpfootins
    \def\baselinestretch{\m@m@footnote@spacing}%
    \RTLfoottextfont \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
  \reset@font%
    \@makefntext{%
      \rule\z@\footnotesep\ignorespaces{\RTLfoottextfont #1}%
      \@finalstrut\strutbox}%
  \color@endgroup}}
\let\m@mold@footnotetext\@footnotetext
\let\m@mold@LTRfootnotetext\@LTRfootnotetext
\let\m@mold@RTLfootnotetext\@RTLfootnotetext
\let\m@mold@mpfootnotetext\@mpfootnotetext
\let\m@mold@mpLTRfootnotetext\@mpLTRfootnotetext
\let\m@mold@mpRTLfootnotetext\@mpRTLfootnotetext
\bidi@ensure@newcommand{\normalfootnotes}{%
  \let\@footnotetext\m@mold@footnotetext
  \let\@LTRfootnotetext\m@mold@LTRfootnotetext
  \let\@RTLfootnotetext\m@mold@RTLfootnotetext
  \let\@mpfootnotetext\m@mold@mpfootnotetext
  \let\@mpLTRfootnotetext\m@mold@mpLTRfootnotetext
  \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext}
\@ifclassloaded{memoir}{\let\plainfootnotes\normalfootnotes}{}
\bidi@ensure@newcommand*{\RTLcolumnfootnotes}{\@RTLcolumnfootnotestrue}
\bidi@ensure@newcommand*{\LTRcolumnfootnotes}{\@RTLcolumnfootnotesfalse}
\bidi@ensure@newcommand*{\setSingleSpace}[1]{%
  \def\m@m@singlespace{#1}%
  \def\m@m@footnote@spacing{#1}%
  \def\m@m@float@spacing{#1} %
}
\setSingleSpace{1}
```

```
\newinsert\sideins
\bidi@ensure@newcommand*{\multiplefootnotemarker}{3sp}
\bidi@ensure@newcommand*{\m@mmf@prepare}{%
  \kern-\multiplefootnotemarker
  \kern\multiplefootnotemarker\relax}
\bidi@ensure@newlength{\footmarkwidth}
\bidi@ensure@newlength{\footmarksep}
\bidi@ensure@newlength{\footparindent}
\bidi@ensure@newcommand*{\footmarkstyle}[1]{\def\footscript##1{#1}}
\bidi@ensure@newcommand{\footfootmark}{%
  \ifdim\footmarkwidth < \z@
    \llap{\hb@xt@ -\footmarkwidth{%
            \hss\normalfont\footscript{\@thefnmark}}%
          \hspace*{-\footmarkwidth}}%
  \else
    \ifdim\footmarkwidth = \z@
      {\normalfont\footscript{\@thefnmark}}%
    \else
      \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\@thefnmark}}%
    \fi
  \fi}
\footmarkstyle{\textsuperscript{#1}}
\setlength{\footmarkwidth}{1.8em}
\setlength{\footparindent}{1em}
\bidi@ensure@newcommand{\m@mdoextrafeet}{\extrafeetins}
\bidi@ensure@newcommand*{\extrafeetins}{%
  \setbox\@outputbox \vbox{%
    \boxmaxdepth \@maxdepth
    \unvbox\@outputbox
    \ifvoid\footinsv@r\else\@footstartv@r\@footgroupv@r\fi
    \extrafeetinshook}}
\bidi@ensure@newcommand{\extrafeetinshook}{}
\bidi@ensure@newcommand{\foottextfont}{\footnotesize}
\bidi@ensure@newcommand{\LTRfoottextfont}{\footnotesize}
\bidi@ensure@newcommand{\RTLfoottextfont}{\footnotesize}
\bidi@ensure@newlength{\footinsdim}
  \setlength{\footinsdim}{8in}   % standard for \dimen\footins
\bidi@ensure@newcommand{\@preamfntext}{%
  \interlinepenalty\interfootnotelinepenalty
  \floatingpenalty \@MM
  \splittopskip=\footnotesep
  \splitmaxdepth=\dp\strutbox
  \@parboxrestore}
\bidi@ensure@newcommand{\m@mdoextrafeetmini}{%
  \extrafeetminihook}
\bidi@ensure@newcommand{\extrafeetendmini}{%
  \ifvoid\@mpfootinsv@r\else
    \vskip\skip\@mpfootins
    \normalcolor\footnoterule\mp@footgroupv@r
  \fi
```

```
  \extrafeetendminihook}
\bidi@ensure@newcommand{\extrafeetendminihook}{}
\bidi@ensure@newcommand{\m@mdoextrafeetendmini}{\extrafeetendmini}
\def\endminipage{%
  \par
  \unskip
  \ifvoid\@mpfootins\else
    \vskip\skip\@mpfootins
    \normalcolor
    \footnoterule
    \unvbox\@mpfootins
  \fi
  \m@mdoextrafeetendmini
  \@minipagefalse
  \color@endgroup
  \egroup
  \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
\bidi@ensure@newcommand{\m@make@footstart}[1]{%
  \@namedef{@footstart#1}{%
    \vskip\bigskipamount
    \leftskip=\z@
    \rightskip=\z@
    \footnoterule}}
\newinsert\footinsv@r
  \skip\footinsv@r\bigskipamount
  \count\footinsv@r=1000 % no magnifcation
  \dimen\footinsv@r=\footinsdim
\m@make@footstart{v@r}
\bidi@ensure@newcommand{\@footgroupv@r}{}
\newinsert\@mpfootinsv@r
\bidi@ensure@newcommand{\mp@footgroupv@r}{}
\newcount\m@m@k \newdimen\m@m@h
\@ifpackageloaded{multicol}{%
\bidi@ensure@newcommand*{\m@mrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
  \hsize\textwidth
  \@@line{\if@RTLcolumnfootnotes\beginR\fi\splittopskip=\m@m@h \vbadness=\@M \hfilneg
  \valign{##\vfill\cr\m@mdosplits}\if@RTLcolumnfootnotes\endR\fi}}
}{%
\bidi@ensure@newcommand*{\m@mrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
  \@@line{\if@RTLcolumnfootnotes\beginR\fi\splittopskip=\m@m@h \vbadness=\@M \hfilneg
  \valign{##\vfill\cr\m@mdosplits}\if@RTLcolumnfootnotes\endR\fi}}}
\bidi@ensure@newcommand*{\m@mdosplits}{\ifnum\m@m@k>0 \noalign{\hfil}\m@msplitoff
  \global\advance\m@m@k-1\cr\m@mdosplits\fi}
\bidi@ensure@newcommand*{\m@msplitoff}{\dimen0=\ht0
  \divide\dimen0 by\m@m@k \advance\dimen0 by\m@m@h
  \setbox2 \vsplit0 to \dimen0
  \unvbox2 }
\bidi@ensure@newcommand{\twocolumnfootnotes}{%
  \@namedef{foottextfontv@r}{\foottextfont}%  % [RS]
  \let\@footnotetext\@twocolfootnotetext
```

```
  \let\@LTRfootnotetext\@twocolLTRfootnotetext
  \let\@RTLfootnotetext\@twocolRTLfootnotetext
  \dimen\footinsv@r=2\footinsdim
  \count\footinsv@r=500\relax
  \m@make@twocol@footgroup{v@r}%
  \let\@footgroupv@r\@twocol@footgroupv@r
  \let\@mpfootnotetext\@mptwocolfootnotetext
  \let\@mpLTRfootnotetext\@mptwocolLTRfootnotetext
  \let\@mpRTLfootnotetext\@mptwocolRTLfootnotetext
  \m@make@mptwocol@footgroup{v@r}%
  \let\mp@footgroupv@r\@mptwocol@footgroupv@r}
\bidi@ensure@newcommand{\@twocolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtrue
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\foottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@twocolfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@twocolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnotes
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\LTRfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@twocolLTRfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@twocolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\RTLfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@twocolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@preamtwofmt}{%
  \hsize .45\hsize
  \parindent=\z@
  \tolerance=5000\relax
  \leavevmode}
\bidi@ensure@newcommand{\@twocolfootfmt}[1]{%
  \@preamtwofmt
  {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@twocolLTRfootfmt}[1]{%
```

```
  \@preamtwofmt
  {\footfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@twocolRTLfootfmt}[1]{%
  \@preamtwofmt
  {\footfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@mptwocolfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\foottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@twocolfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mptwocolLTRfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\LTRfoottextfont
    \hsize\columnwidth \@parboxrestore
    \if@RTLcolumnfootnotes\beginL\fi
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@twocolLTRfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mptwocolRTLfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\RTLfoottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@twocolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\twocolumnfootstyle}[1]{%
  \m@make@twocolfootnotetext{#1}%
  \m@make@mptwocolfootnotetext{#1}%
  \m@make@twocolfootfmt{#1}%
  \m@make@twocol@footgroup{#1}%
  \m@make@mptwocol@footgroup{#1}%
  \m@make@footstart{#1}%
  \bidi@namelongdef{@footnotetext#1}##1{%
```

```
      \@nameuse{@twocolfootnotetext#1}{##1}}%
  \bidi@namelongdef{@mpfootnotetext#1}##1{%
      \@nameuse{@mptwocolfootnotetext#1}{##1}}%
  \@namedef{@footgroup#1}{\@nameuse{@twocol@footgroup#1}}%
  \@namedef{mp@footgroup#1}{\@nameuse{@mptwocol@footgroup#1}}%
  \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
  \expandafter\count\csname footins#1\endcsname=500\relax}
\bidi@ensure@newcommand{\m@make@twocolfootnotetext}[1]{%
  \bidi@namelongdef{@twocolfootnotetext#1}##1{%
    \insert\@nameuse{footins#1}{%
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \@preamfntext
    \protected@edef\@currentlabel{%
      \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
    \color@begingroup
      \@nameuse{@twocolfootfmt#1}{##1}%
    \color@endgroup}%
    \m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@mptwocolfootnotetext}[1]{%
\bidi@namelongdef{@mptwocolfootnotetext#1}##1{%
  \global\setbox\@nameuse{@mpfootins#1}\vbox{%
    \unvbox\@nameuse{@mpfootins#1}
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
  \color@begingroup
    \@nameuse{@twocolfootfmt#1}{##1}%
  \color@endgroup}\m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@twocolfootfmt}[1]{%
  \@namedef{@twocolfootfmt#1}##1{%
    \@preamtwofmt
    {\@nameuse{footfootmark#1}\strut
     {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
\bidi@ensure@newcommand{\m@make@twocol@footgroup}[1]{%
  \@namedef{@twocol@footgroup#1}{{%
    \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
     \m@mrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}}
\bidi@ensure@newcommand{\m@make@mptwocol@footgroup}[1]{%
\@namedef{@mptwocol@footgroup#1}{{%
  \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
  \m@mrigidbalance{\@nameuse{@mpfootins#1}}{\tw@}{\splittopskip}}}}
\bidi@ensure@newcommand{\threecolumnfootnotes}{%
  \@namedef{foottextfontv@r}{\foottextfont}%  % [RS]
  \let\@footnotetext\@threecolfootnotetext
  \let\@LTRfootnotetext\@threecolLTRfootnotetext
  \let\@RTLfootnotetext\@threecolRTLfootnotetext
  \dimen\footinsv@r=3\footinsdim
```

```
  \count\footinsv@r=333\relax
  \m@make@threecol@footgroup{v@r}%
  \let\@footgroupv@r\@threecol@footgroupv@r
  \let\@mpfootnotetext\@mpthreecolfootnotetext
  \let\@mpLTRfootnotetext\@mpthreecolLTRfootnotetext
  \let\@mpRTLfootnotetext\@mpthreecolRTLfootnotetext
  \m@make@mpthreecol@footgroup{v@r}%
  \let\mp@footgroupv@r\@mpthreecol@footgroupv@r}
\bidi@ensure@newcommand{\@threecolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtr
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\foottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@threecolfootfmt{#1}%
  \color@endgroup}\m@mmf@prepare}
\bidi@ensure@newcommand{\@threecolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnot
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\LTRfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@threecolLTRfootfmt{#1}%
  \color@endgroup}\m@mmf@prepare}
\bidi@ensure@newcommand{\@threecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\RTLfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@threecolRTLfootfmt{#1}%
  \color@endgroup}\m@mmf@prepare}
\bidi@ensure@newcommand{\@preamthreefmt}{%
  \hsize .3\hsize
  \parindent=\z@
  \tolerance=5000\relax
  \leavevmode}
\bidi@ensure@newcommand{\@threecolfootfmt}[1]{%
  \@preamthreefmt
  {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@threecolLTRfootfmt}[1]{%
  \@preamthreefmt
  {\footfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@threecolRTLfootfmt}[1]{%
  \@preamthreefmt
  {\footfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@mpthreecolfootnotetext}[1]{%
```

```
  \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\foottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@threecolfootfmt{#1}%
  \color@endgroup}\m@mmf@prepare}
\bidi@ensure@newcommand{\@mpthreecolLTRfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\LTRfoottextfont
    \hsize\columnwidth \@parboxrestore
    \if@RTLcolumnfootnotes\beginL\fi
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@threecolLTRfootfmt{#1}%
  \color@endgroup}\m@mmf@prepare}
\bidi@ensure@newcommand{\@mpthreecolRTLfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\RTLfoottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@threecolRTLfootfmt{#1}%
  \color@endgroup}\m@mmf@prepare}
\bidi@ensure@newcommand{\threecolumnfootstyle}[1]{%
  \m@make@threecolfootnotetext{#1}%
  \m@make@mpthreecolfootnotetext{#1}%
  \m@make@threecolfootfmt{#1}%
  \m@make@threecol@footgroup{#1}%
  \m@make@mpthreecol@footgroup{#1}%
  \m@make@footstart{#1}%
  \bidi@namelongdef{@footnotetext#1}##1{%
    \@nameuse{@threecolfootnotetext#1}{##1}}%
  \bidi@namelongdef{@mpfootnotetext#1}##1{%
    \@nameuse{@mpthreecolfootnotetext#1}{##1}}%
  \@namedef{@footgroup#1}{\@nameuse{@threecol@footgroup#1}}%
  \@namedef{mp@footgroup#1}{\@nameuse{@mpthreecol@footgroup#1}}%
  \expandafter\dimen\csname footins#1\endcsname=3\footinsdim
  \expandafter\count\csname footins#1\endcsname=333\relax}
\bidi@ensure@newcommand{\m@make@threecolfootnotetext}[1]{%
\bidi@namelongdef{@threecolfootnotetext#1}##1{%
```

```
  \insert\@nameuse{footins#1}{%
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\@nameuse{foottextfont#1}%
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
  \color@begingroup
    \@nameuse{@threecolfootfmt#1}{##1}%
  \color@endgroup}\m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@mpthreecolfootnotetext}[1]{%
\bidi@namelongdef{@mpthreecolfootnotetext#1}##1{%
  \global\setbox\@nameuse{@mpfootins#1}\vbox{%
    \unvbox\@nameuse{@mpfootins#1}
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
  \color@begingroup
    \@nameuse{@threecolfootfmt#1}{##1}%
  \color@endgroup}\m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@threecolfootfmt}[1]{%
\bidi@namelongdef{@threecolfootfmt#1}##1{%
  \@preamthreefmt
  {\@nameuse{footfootmark#1}\strut
   {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
\bidi@ensure@newcommand{\m@make@threecol@footgroup}[1]{%
\@namedef{@threecol@footgroup#1}{{%
  \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
  \m@mrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
\bidi@ensure@newcommand{\m@make@mpthreecol@footgroup}[1]{%
\@namedef{@mpthreecol@footgroup#1}{{%
  \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
  \m@mrigidbalance{\@nameuse{@mpfootins#1}}{\thr@@}{\splittopskip}}}}
\bidi@ensure@newcommand{\fourcolumnfootnotes}{%
  \@namedef{foottextfontv@r}{\foottextfont}%  % [RS]
  \let\@footnotetext\@fourcolfootnotetext
  \let\@LTRfootnotetext\@fourcolLTRfootnotetext
  \let\@RTLfootnotetext\@fourcolRTLfootnotetext
  \dimen\footinsv@r=4\footinsdim
  \count\footinsv@r=250\relax
  \m@make@fourcol@footgroup{v@r}%
  \let\@footgroupv@r\@fourcol@footgroupv@r
  \let\@mpfootnotetext\@mpfourcolfootnotetext
  \let\@mpLTRfootnotetext\@mpfourcolLTRfootnotetext
  \let\@mpRTLfootnotetext\@mpfourcolRTLfootnotetext
  \m@make@mpfourcol@footgroup{v@r}%
  \let\mp@footgroupv@r\@mpfourcol@footgroupv@r}
\bidi@ensure@newcommand{\@fourcolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtru
  \def\baselinestretch{\m@m@footnote@spacing}%
```

```
  \reset@font\foottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@fourcolfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@fourcolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnote
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\LTRfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@fourcolLTRfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@fourcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\RTLfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@fourcolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@preamfourfmt}{%
  \hsize .25\hsize
  \parindent=\z@
  \tolerance=5000\relax
  \leavevmode}
\bidi@ensure@newcommand{\@fourcolfootfmt}[1]{%
  \@preamfourfmt
  {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@fourcolLTRfootfmt}[1]{%
  \@preamfourfmt
  {\footfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@fourcolRTLfootfmt}[1]{%
  \@preamfourfmt
  {\footfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@mpfourcolfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\foottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
```

```
  \color@begingroup
    \@fourcolfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mpfourcolLTRfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\LTRfoottextfont
    \hsize\columnwidth \@parboxrestore
    \if@RTLcolumnfootnotes\beginL\fi
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@fourcolLTRfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mpfourcolRTLfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\RTLfoottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@fourcolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\fourcolumnfootstyle}[1]{%
  \m@make@fourcolfootnotetext{#1}%
  \m@make@mpfourcolfootnotetext{#1}%
  \m@make@fourcolfootfmt{#1}%
  \m@make@fourcol@footgroup{#1}%
  \m@make@mpfourcol@footgroup{#1}%
  \m@make@footstart{#1}%
  \bidi@namelongdef{@footnotetext#1}##1{%
     \@nameuse{@fourcolfootnotetext#1}{##1}}%
  \bidi@namelongdef{@mpfootnotetext#1}##1{%
     \@nameuse{@mpfourcolfootnotetext#1}{##1}}%
  \@namedef{@footgroup#1}{\@nameuse{@fourcol@footgroup#1}}%
  \@namedef{mp@footgroup#1}{\@nameuse{@mpfourcol@footgroup#1}}%
  \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
  \expandafter\count\csname footins#1\endcsname=500\relax}
\bidi@ensure@newcommand{\m@make@fourcolfootnotetext}[1]{%
  \bidi@namelongdef{@fourcolfootnotetext#1}##1{%
    \insert\@nameuse{footins#1}{%
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \@preamfntext
```

```
    \protected@edef\@currentlabel{%
      \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
    \color@begingroup
      \@nameuse{@fourcolfootfmt#1}{##1}%
    \color@endgroup}%
    \m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@mpfourcolfootnotetext}[1]{%
\bidi@namelongdef{@mpfourcolfootnotetext#1}##1{%
  \global\setbox\@nameuse{@mpfootins#1}\vbox{%
    \unvbox\@nameuse{@mpfootins#1}
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
  \color@begingroup
    \@nameuse{@fourcolfootfmt#1}{##1}%
  \color@endgroup}\m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@fourcolfootfmt}[1]{%
  \@namedef{@fourcolfootfmt#1}##1{%
    \@preamfourfmt
    {\@nameuse{footfootmark#1}\strut
     {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
\bidi@ensure@newcommand{\m@make@fourcol@footgroup}[1]{%
  \@namedef{@fourcol@footgroup#1}{{%
    \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
     \m@mrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}}
\bidi@ensure@newcommand{\m@make@mpfourcol@footgroup}[1]{%
\@namedef{@mpfourcol@footgroup#1}{{%
  \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
  \m@mrigidbalance{\@nameuse{@mpfootins#1}}{4}{\splittopskip}}}}
\bidi@ensure@newcommand{\fivecolumnfootnotes}{%
  \@namedef{foottextfontv@r}{\foottextfont}%  % [RS]
  \let\@footnotetext\@fivecolfootnotetext
  \let\@LTRfootnotetext\@fivecolLTRfootnotetext
  \let\@RTLfootnotetext\@fivecolRTLfootnotetext
  \dimen\footinsv@r=5\footinsdim
  \count\footinsv@r=200\relax
  \m@make@fivecol@footgroup{v@r}%
  \let\@footgroupv@r\@fivecol@footgroupv@r
  \let\@mpfootnotetext\@mpfivecolfootnotetext
  \let\@mpLTRfootnotetext\@mpfivecolLTRfootnotetext
  \let\@mpRTLfootnotetext\@mpfivecolRTLfootnotetext
  \m@make@mpfivecol@footgroup{v@r}%
  \let\mp@footgroupv@r\@mpfivecol@footgroupv@r}
\bidi@ensure@newcommand{\@fivecolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtru
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\foottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
```

```
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@fivecolfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@fivecolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnote
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\LTRfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@fivecolLTRfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@fivecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\RTLfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@fivecolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@preamfivefmt}{%
  \hsize .2\hsize
  \parindent=\z@
  \tolerance=5000\relax
  \leavevmode}
\bidi@ensure@newcommand{\@fivecolfootfmt}[1]{%
  \@preamfivefmt
  {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@fivecolLTRfootfmt}[1]{%
  \@preamfivefmt
  {\footfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@fivecolRTLfootfmt}[1]{%
  \@preamfivefmt
  {\footfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@mpfivecolfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\foottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@fivecolfootfmt{#1}%
  \color@endgroup}%
```

```
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mpfivecolLTRfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\LTRfoottextfont
    \hsize\columnwidth \@parboxrestore
    \if@RTLcolumnfootnotes\beginL\fi
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@fivecolLTRfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mpfivecolRTLfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\RTLfoottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@fivecolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\fivecolumnfootstyle}[1]{%
  \m@make@fivecolfootnotetext{#1}%
  \m@make@mpfivecolfootnotetext{#1}%
  \m@make@fivecolfootfmt{#1}%
  \m@make@fivecol@footgroup{#1}%
  \m@make@mpfivecol@footgroup{#1}%
  \m@make@footstart{#1}%
  \bidi@namelongdef{@footnotetext#1}##1{%
     \@nameuse{@fivecolfootnotetext#1}{##1}}%
  \bidi@namelongdef{@mpfootnotetext#1}##1{%
     \@nameuse{@mpfivecolfootnotetext#1}{##1}}%
  \@namedef{@footgroup#1}{\@nameuse{@fivecol@footgroup#1}}%
  \@namedef{mp@footgroup#1}{\@nameuse{@mpfivecol@footgroup#1}}%
  \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
  \expandafter\count\csname footins#1\endcsname=500\relax}
\bidi@ensure@newcommand{\m@make@fivecolfootnotetext}[1]{%
  \bidi@namelongdef{@fivecolfootnotetext#1}##1{%
    \insert\@nameuse{footins#1}{%
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \@preamfntext
    \protected@edef\@currentlabel{%
      \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
    \color@begingroup
```

```
      \@nameuse{@fivecolfootfmt#1}{##1}%
    \color@endgroup}%
    \m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@mpfivecolfootnotetext}[1]{%
\bidi@namelongdef{@mpfivecolfootnotetext#1}##1{%
  \global\setbox\@nameuse{@mpfootins#1}\vbox{%
    \unvbox\@nameuse{@mpfootins#1}
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
  \color@begingroup
    \@nameuse{@fivecolfootfmt#1}{##1}%
  \color@endgroup}\m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@fivecolfootfmt}[1]{%
  \@namedef{@fivecolfootfmt#1}##1{%
    \@preamfivefmt
    {\@nameuse{footfootmark#1}\strut
     {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
\bidi@ensure@newcommand{\m@make@fivecol@footgroup}[1]{%
  \@namedef{@fivecol@footgroup#1}{{%
    \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
     \m@mrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}}
\bidi@ensure@newcommand{\m@make@mpfivecol@footgroup}[1]{%
\@namedef{@mpfivecol@footgroup#1}{{%
  \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
  \m@mrigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}}}
\bidi@ensure@newcommand{\sixcolumnfootnotes}{%
  \@namedef{foottextfontv@r}{\foottextfont}%  % [RS]
  \let\@footnotetext\@sixcolfootnotetext
  \let\@LTRfootnotetext\@sixcolLTRfootnotetext
  \let\@RTLfootnotetext\@sixcolRTLfootnotetext
  \dimen\footinsv@r=6\footinsdim
  \count\footinsv@r=166\relax
  \m@make@sixcol@footgroup{v@r}%
  \let\@footgroupv@r\@sixcol@footgroupv@r
  \let\@mpfootnotetext\@mpsixcolfootnotetext
  \let\@mpLTRfootnotetext\@mpsixcolLTRfootnotetext
  \let\@mpRTLfootnotetext\@mpsixcolRTLfootnotetext
  \m@make@mpsixcol@footgroup{v@r}%
  \let\mp@footgroupv@r\@mpsixcol@footgroupv@r}
\bidi@ensure@newcommand{\@sixcolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtrue
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\foottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@sixcolfootfmt{#1}%
```

```
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@sixcolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnotes
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\LTRfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@sixcolLTRfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@sixcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\RTLfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@sixcolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@preamsixfmt}{%
  \hsize .16\hsize
  \parindent=\z@
  \tolerance=5000\relax
  \leavevmode}
\bidi@ensure@newcommand{\@sixcolfootfmt}[1]{%
  \@preamsixfmt
  {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@sixcolLTRfootfmt}[1]{%
  \@preamsixfmt
  {\footfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@sixcolRTLfootfmt}[1]{%
  \@preamsixfmt
  {\footfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@mpsixcolfootnotetext}[1]{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\f
  \global\setbox\@mpfootinsv@r\vbox{%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\foottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@sixcolfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mpsixcolLTRfootnotetext}[1]{\@RTLfalse%
  \global\setbox\@mpfootinsv@r\vbox{%
```

```
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\LTRfoottextfont
    \hsize\columnwidth \@parboxrestore
    \if@RTLcolumnfootnotes\beginL\fi
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@sixcolLTRfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mpsixcolRTLfootnotetext}[1]{\@RTLtrue%
  \global\setbox\@mpfootinsv@r\vbox{%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\RTLfoottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@sixcolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\sixcolumnfootstyle}[1]{%
  \m@make@sixcolfootnotetext{#1}%
  \m@make@mpsixcolfootnotetext{#1}%
  \m@make@sixcolfootfmt{#1}%
  \m@make@sixcol@footgroup{#1}%
  \m@make@mpsixcol@footgroup{#1}%
  \m@make@footstart{#1}%
  \bidi@namelongdef{@footnotetext#1}##1{%
     \@nameuse{@sixcolfootnotetext#1}{##1}}%
  \bidi@namelongdef{@mpfootnotetext#1}##1{%
     \@nameuse{@mpsixcolfootnotetext#1}{##1}}%
  \@namedef{@footgroup#1}{\@nameuse{@sixcol@footgroup#1}}%
  \@namedef{mp@footgroup#1}{\@nameuse{@mpsixcol@footgroup#1}}%
  \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
  \expandafter\count\csname footins#1\endcsname=500\relax}
\bidi@ensure@newcommand{\m@make@sixcolfootnotetext}[1]{%
  \bidi@namelongdef{@sixcolfootnotetext#1}##1{%
    \insert\@nameuse{footins#1}{%
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \@preamfntext
    \protected@edef\@currentlabel{%
      \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
    \color@begingroup
      \@nameuse{@sixcolfootfmt#1}{##1}%
    \color@endgroup}%
    \m@mmf@prepare}}
```

```
\bidi@ensure@newcommand{\m@make@mpsixcolfootnotetext}[1]{%
\bidi@namelongdef{@mpsixcolfootnotetext#1}##1{%
  \global\setbox\@nameuse{@mpfootins#1}\vbox{%
    \unvbox\@nameuse{@mpfootins#1}
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
  \color@begingroup
    \@nameuse{@sixcolfootfmt#1}{##1}%
  \color@endgroup}\m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@sixcolfootfmt}[1]{%
  \@namedef{@sixcolfootfmt#1}##1{%
    \@preamsixfmt
    {\@nameuse{footfootmark#1}\strut
     {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
\bidi@ensure@newcommand{\m@make@sixcol@footgroup}[1]{%
  \@namedef{@sixcol@footgroup#1}{{%
    \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
     \m@mrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}}
\bidi@ensure@newcommand{\m@make@mpsixcol@footgroup}[1]{%
\@namedef{@mpsixcol@footgroup#1}{{%
  \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
  \m@mrigidbalance{\@nameuse{@mpfootins#1}}{6}{\splittopskip}}}}
\bidi@ensure@newcommand{\sevencolumnfootnotes}{%
  \@namedef{foottextfontv@r}{\foottextfont}%  % [RS]
  \let\@footnotetext\@sevencolfootnotetext
  \let\@LTRfootnotetext\@sevencolLTRfootnotetext
  \let\@RTLfootnotetext\@sevencolRTLfootnotetext
  \dimen\footinsv@r=7\footinsdim
  \count\footinsv@r=142\relax
  \m@make@sevencol@footgroup{v@r}%
  \let\@footgroupv@r\@sevencol@footgroupv@r
  \let\@mpfootnotetext\@mpsevencolfootnotetext
  \let\@mpLTRfootnotetext\@mpsevencolLTRfootnotetext
  \let\@mpRTLfootnotetext\@mpsevencolRTLfootnotetext
  \m@make@mpsevencol@footgroup{v@r}%
  \let\mp@footgroupv@r\@mpsevencol@footgroupv@r}
\bidi@ensure@newcommand{\@sevencolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtr
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\foottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@sevencolfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@sevencolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnot
```

```
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\LTRfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@sevencolLTRfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@sevencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\RTLfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@sevencolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@preamsevenfmt}{%
  \hsize .142\hsize
  \parindent=\z@
  \tolerance=5000\relax
  \leavevmode}
\bidi@ensure@newcommand{\@sevencolfootfmt}[1]{%
  \@preamsevenfmt
  {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@sevencolLTRfootfmt}[1]{%
  \@preamsevenfmt
  {\footfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@sevencolRTLfootfmt}[1]{%
  \@preamsevenfmt
  {\footfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@mpsevencolfootnotetext}[1]{\if@RTL@footnote\@RTLtrue\else\@RTLfalse
  \global\setbox\@mpfootinsv@r\vbox{%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\foottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@sevencolfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mpsevencolLTRfootnotetext}[1]{\@RTLfalse%
  \global\setbox\@mpfootinsv@r\vbox{%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\LTRfoottextfont
```

```
    \hsize\columnwidth \@parboxrestore
    \if@RTLcolumnfootnotes\beginL\fi
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@sevencolLTRfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mpsevencolRTLfootnotetext}[1]{\@RTLtrue%
  \global\setbox\@mpfootinsv@r\vbox{%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\RTLfoottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@sevencolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\sevencolumnfootstyle}[1]{%
  \m@make@sevencolfootnotetext{#1}%
  \m@make@mpsevencolfootnotetext{#1}%
  \m@make@sevencolfootfmt{#1}%
  \m@make@sevencol@footgroup{#1}%
  \m@make@mpsevencol@footgroup{#1}%
  \m@make@footstart{#1}%
  \bidi@namelongdef{@footnotetext#1}##1{%
     \@nameuse{@sevencolfootnotetext#1}{##1}}%
  \bidi@namelongdef{@mpfootnotetext#1}##1{%
     \@nameuse{@mpsevencolfootnotetext#1}{##1}}%
  \@namedef{@footgroup#1}{\@nameuse{@sevencol@footgroup#1}}%
  \@namedef{mp@footgroup#1}{\@nameuse{@mpsevencol@footgroup#1}}%
  \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
  \expandafter\count\csname footins#1\endcsname=500\relax}
\bidi@ensure@newcommand{\m@make@sevencolfootnotetext}[1]{%
  \bidi@namelongdef{@sevencolfootnotetext#1}##1{%
    \insert\@nameuse{footins#1}{%
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \@preamfntext
    \protected@edef\@currentlabel{%
      \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
    \color@begingroup
      \@nameuse{@sevencolfootfmt#1}{##1}%
    \color@endgroup}%
    \m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@mpsevencolfootnotetext}[1]{%
\bidi@namelongdef{@mpsevencolfootnotetext#1}##1{%
  \global\setbox\@nameuse{@mpfootins#1}\vbox{%
```

```
    \unvbox\@nameuse{@mpfootins#1}
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
  \color@begingroup
    \@nameuse{@sevencolfootfmt#1}{##1}%
  \color@endgroup}\m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@sevencolfootfmt}[1]{%
  \@namedef{@sevencolfootfmt#1}##1{%
    \@preamsevenfmt
    {\@nameuse{footfootmark#1}\strut
     {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
\bidi@ensure@newcommand{\m@make@sevencol@footgroup}[1]{%
  \@namedef{@sevencol@footgroup#1}{{%
    \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
     \m@mrigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}}
\bidi@ensure@newcommand{\m@make@mpsevencol@footgroup}[1]{%
\@namedef{@mpsevencol@footgroup#1}{{%
  \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
  \m@mrigidbalance{\@nameuse{@mpfootins#1}}{7}{\splittopskip}}}}
\bidi@ensure@newcommand{\eightcolumnfootnotes}{%
  \@namedef{foottextfontv@r}{\foottextfont}%  % [RS]
  \let\@footnotetext\@eightcolfootnotetext
  \let\@LTRfootnotetext\@eightcolLTRfootnotetext
  \let\@RTLfootnotetext\@eightcolRTLfootnotetext
  \dimen\footinsv@r=8\footinsdim
  \count\footinsv@r=125\relax
  \m@make@eightcol@footgroup{v@r}%
  \let\@footgroupv@r\@eightcol@footgroupv@r
  \let\@mpfootnotetext\@mpeightcolfootnotetext
  \let\@mpLTRfootnotetext\@mpeightcolLTRfootnotetext
  \let\@mpRTLfootnotetext\@mpeightcolRTLfootnotetext
  \m@make@mpeightcol@footgroup{v@r}%
  \let\mp@footgroupv@r\@mpeightcol@footgroupv@r}
\bidi@ensure@newcommand{\@eightcolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtr
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\foottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@eightcolfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@eightcolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnot
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\LTRfoottextfont
  \@preamfntext
```

```
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@eightcolLTRfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@eightcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\RTLfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@eightcolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@preameightfmt}{%
  \hsize .125\hsize
  \parindent=\z@
  \tolerance=5000\relax
  \leavevmode}
\bidi@ensure@newcommand{\@eightcolfootfmt}[1]{%
  \@preameightfmt
  {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@eightcolLTRfootfmt}[1]{%
  \@preameightfmt
  {\footfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@eightcolRTLfootfmt}[1]{%
  \@preameightfmt
  {\footfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@mpeightcolfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\foottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@eightcolfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mpeightcolLTRfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\LTRfoottextfont
    \hsize\columnwidth \@parboxrestore
    \if@RTLcolumnfootnotes\beginL\fi
    \protected@edef\@currentlabel{%
```

```
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@eightcolLTRfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mpeightcolRTLfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\RTLfoottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@eightcolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\eightcolumnfootstyle}[1]{%
  \m@make@eightcolfootnotetext{#1}%
  \m@make@mpeightcolfootnotetext{#1}%
  \m@make@eightcolfootfmt{#1}%
  \m@make@eightcol@footgroup{#1}%
  \m@make@mpeightcol@footgroup{#1}%
  \m@make@footstart{#1}%
  \bidi@namelongdef{@footnotetext#1}##1{%
     \@nameuse{@eightcolfootnotetext#1}{##1}}%
  \bidi@namelongdef{@mpfootnotetext#1}##1{%
     \@nameuse{@mpeightcolfootnotetext#1}{##1}}%
  \@namedef{@footgroup#1}{\@nameuse{@eightcol@footgroup#1}}%
  \@namedef{mp@footgroup#1}{\@nameuse{@mpeightcol@footgroup#1}}%
  \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
  \expandafter\count\csname footins#1\endcsname=500\relax}
\bidi@ensure@newcommand{\m@make@eightcolfootnotetext}[1]{%
  \bidi@namelongdef{@eightcolfootnotetext#1}##1{%
    \insert\@nameuse{footins#1}{%
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \@preamfntext
    \protected@edef\@currentlabel{%
      \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
    \color@begingroup
      \@nameuse{@eightcolfootfmt#1}{##1}%
    \color@endgroup}%
    \m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@mpeightcolfootnotetext}[1]{%
\bidi@namelongdef{@mpeightcolfootnotetext#1}##1{%
  \global\setbox\@nameuse{@mpfootins#1}\vbox{%
    \unvbox\@nameuse{@mpfootins#1}
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
```

```
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
  \color@begingroup
    \@nameuse{@eightcolfootfmt#1}{##1}%
  \color@endgroup}\m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@eightcolfootfmt}[1]{%
  \@namedef{@eightcolfootfmt#1}##1{%
    \@preameightfmt
    {\@nameuse{footfootmark#1}\strut
     {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
\bidi@ensure@newcommand{\m@make@eightcol@footgroup}[1]{%
  \@namedef{@eightcol@footgroup#1}{{%
    \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
     \m@mrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}}
\bidi@ensure@newcommand{\m@make@mpeightcol@footgroup}[1]{%
\@namedef{@mpeightcol@footgroup#1}{{%
  \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
  \m@mrigidbalance{\@nameuse{@mpfootins#1}}{8}{\splittopskip}}}}
\bidi@ensure@newcommand{\ninecolumnfootnotes}{%
  \@namedef{foottextfontv@r}{\foottextfont}%  % [RS]
  \let\@footnotetext\@ninecolfootnotetext
  \let\@LTRfootnotetext\@ninecolLTRfootnotetext
  \let\@RTLfootnotetext\@ninecolRTLfootnotetext
  \dimen\footinsv@r=9\footinsdim
  \count\footinsv@r=111\relax
  \m@make@ninecol@footgroup{v@r}%
  \let\@footgroupv@r\@ninecol@footgroupv@r
  \let\@mpfootnotetext\@mpninecolfootnotetext
  \let\@mpLTRfootnotetext\@mpninecolLTRfootnotetext
  \let\@mpRTLfootnotetext\@mpninecolRTLfootnotetext
  \m@make@mpninecol@footgroup{v@r}%
  \let\mp@footgroupv@r\@mpninecol@footgroupv@r}
\bidi@ensure@newcommand{\@ninecolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtru
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\foottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@ninecolfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@ninecolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnote
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\LTRfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
```

```
    \@ninecolLTRfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@ninecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\RTLfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@ninecolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@preamninefmt}{%
  \hsize .1\hsize
  \parindent=\z@
  \tolerance=5000\relax
  \leavevmode}
\bidi@ensure@newcommand{\@ninecolfootfmt}[1]{%
  \@preamninefmt
  {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@ninecolLTRfootfmt}[1]{%
  \@preamninefmt
  {\footfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@ninecolRTLfootfmt}[1]{%
  \@preamninefmt
  {\footfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@mpninecolfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\foottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@ninecolfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mpninecolLTRfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\LTRfoottextfont
    \hsize\columnwidth \@parboxrestore
    \if@RTLcolumnfootnotes\beginL\fi
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@ninecolLTRfootfmt{#1}%
```

```
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mpninecolRTLfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\RTLfoottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@ninecolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\ninecolumnfootstyle}[1]{%
  \m@make@ninecolfootnotetext{#1}%
  \m@make@mpninecolfootnotetext{#1}%
  \m@make@ninecolfootfmt{#1}%
  \m@make@ninecol@footgroup{#1}%
  \m@make@mpninecol@footgroup{#1}%
  \m@make@footstart{#1}%
  \bidi@namelongdef{@footnotetext#1}##1{%
     \@nameuse{@ninecolfootnotetext#1}{##1}}%
  \bidi@namelongdef{@mpfootnotetext#1}##1{%
     \@nameuse{@mpninecolfootnotetext#1}{##1}}%
  \@namedef{@footgroup#1}{\@nameuse{@ninecol@footgroup#1}}%
  \@namedef{mp@footgroup#1}{\@nameuse{@mpninecol@footgroup#1}}%
  \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
  \expandafter\count\csname footins#1\endcsname=500\relax}
\bidi@ensure@newcommand{\m@make@ninecolfootnotetext}[1]{%
  \bidi@namelongdef{@ninecolfootnotetext#1}##1{%
    \insert\@nameuse{footins#1}{%
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \@preamfntext
    \protected@edef\@currentlabel{%
      \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
    \color@begingroup
      \@nameuse{@ninecolfootfmt#1}{##1}%
    \color@endgroup}%
    \m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@mpninecolfootnotetext}[1]{%
\bidi@namelongdef{@mpninecolfootnotetext#1}##1{%
  \global\setbox\@nameuse{@mpfootins#1}\vbox{%
    \unvbox\@nameuse{@mpfootins#1}
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
```

```
  \color@begingroup
    \@nameuse{@ninecolfootfmt#1}{##1}%
  \color@endgroup}\m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@ninecolfootfmt}[1]{%
  \@namedef{@ninecolfootfmt#1}##1{%
    \@preamninefmt
    {\@nameuse{footfootmark#1}\strut
     {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
\bidi@ensure@newcommand{\m@make@ninecol@footgroup}[1]{%
  \@namedef{@ninecol@footgroup#1}{{%
    \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
     \m@mrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
\bidi@ensure@newcommand{\m@make@mpninecol@footgroup}[1]{%
\@namedef{@mpninecol@footgroup#1}{{%
  \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
  \m@mrigidbalance{\@nameuse{@mpfootins#1}}{9}{\splittopskip}}}}
\bidi@ensure@newcommand{\tencolumnfootnotes}{%
  \@namedef{foottextfontv@r}{\foottextfont}%  % [RS]
  \let\@footnotetext\@tencolfootnotetext
  \let\@LTRfootnotetext\@tencolLTRfootnotetext
  \let\@RTLfootnotetext\@tencolRTLfootnotetext
  \dimen\footinsv@r=10\footinsdim
  \count\footinsv@r=100\relax
  \m@make@tencol@footgroup{v@r}%
  \let\@footgroupv@r\@tencol@footgroupv@r
  \let\@mpfootnotetext\@mptencolfootnotetext
  \let\@mpLTRfootnotetext\@mptencolLTRfootnotetext
  \let\@mpRTLfootnotetext\@mptencolRTLfootnotetext
  \m@make@mptencol@footgroup{v@r}%
  \let\mp@footgroupv@r\@mptencol@footgroupv@r}
\bidi@ensure@newcommand{\@tencolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtrue
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\foottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@tencolfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@tencolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnotes
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\LTRfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@tencolLTRfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
```

```
\bidi@ensure@newcommand{\@tencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\RTLfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@tencolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@preamtenfmt}{%
  \hsize .1\hsize
  \parindent=\z@
  \tolerance=5000\relax
  \leavevmode}
\bidi@ensure@newcommand{\@tencolfootfmt}[1]{%
  \@preamtenfmt
  {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@tencolLTRfootfmt}[1]{%
  \@preamtenfmt
  {\footfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@tencolRTLfootfmt}[1]{%
  \@preamtenfmt
  {\footfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@mptencolfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\foottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@tencolfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mptencolLTRfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\LTRfoottextfont
    \hsize\columnwidth \@parboxrestore
    \if@RTLcolumnfootnotes\beginL\fi
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@tencolLTRfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mptencolRTLfootnotetext}[1]{%
```

```
  \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\RTLfoottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@tencolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\tencolumnfootstyle}[1]{%
  \m@make@tencolfootnotetext{#1}%
  \m@make@mptencolfootnotetext{#1}%
  \m@make@tencolfootfmt{#1}%
  \m@make@tencol@footgroup{#1}%
  \m@make@mptencol@footgroup{#1}%
  \m@make@footstart{#1}%
  \bidi@namelongdef{@footnotetext#1}##1{%
     \@nameuse{@tencolfootnotetext#1}{##1}}%
  \bidi@namelongdef{@mpfootnotetext#1}##1{%
     \@nameuse{@mptencolfootnotetext#1}{##1}}%
  \@namedef{@footgroup#1}{\@nameuse{@tencol@footgroup#1}}%
  \@namedef{mp@footgroup#1}{\@nameuse{@mptencol@footgroup#1}}%
  \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
  \expandafter\count\csname footins#1\endcsname=500\relax}
\bidi@ensure@newcommand{\m@make@tencolfootnotetext}[1]{%
  \bidi@namelongdef{@tencolfootnotetext#1}##1{%
    \insert\@nameuse{footins#1}{%
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \@preamfntext
    \protected@edef\@currentlabel{%
      \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
    \color@begingroup
      \@nameuse{@tencolfootfmt#1}{##1}%
    \color@endgroup}%
    \m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@mptencolfootnotetext}[1]{%
\bidi@namelongdef{@mptencolfootnotetext#1}##1{%
  \global\setbox\@nameuse{@mpfootins#1}\vbox{%
    \unvbox\@nameuse{@mpfootins#1}
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
  \color@begingroup
    \@nameuse{@tencolfootfmt#1}{##1}%
  \color@endgroup}\m@mmf@prepare}}
```

```
\bidi@ensure@newcommand{\m@make@tencolfootfmt}[1]{%
  \@namedef{@tencolfootfmt#1}##1{%
    \@preamtenfmt
    {\@nameuse{footfootmark#1}\strut
     {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
\bidi@ensure@newcommand{\m@make@tencol@footgroup}[1]{%
  \@namedef{@tencol@footgroup#1}{{%
    \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
     \m@mrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}}
\bidi@ensure@newcommand{\m@make@mptencol@footgroup}[1]{%
\@namedef{@mptencol@footgroup#1}{{%
  \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
  \m@mrigidbalance{\@nameuse{@mpfootins#1}}{10}{\splittopskip}}}}
\bidi@ensure@newcommand{\m@munvxh}[1]{%
  \setbox0=\vbox{\unvbox#1%
    \global\setbox1=\lastbox}%
  \unhbox1
  \unskip
  \unskip
  \unpenalty
  \hskip\m@mipn@skip}
\bidi@ensure@newcommand{\m@mungebox}{%
  \setbox0=\hbox{\m@munvxh0}%
  \dp0=\z@
  \ht0=\footfudgefactor\wd0
  \box0
  \penalty0}
\newskip\m@mipn@skip
\bidi@ensure@newcommand*{\m@minterparanoteglue}[1]{%
  {\foottextfont\global\m@mipn@skip=#1\relax}}
\m@minterparanoteglue{1em plus.4em minus.4em}
\@ifpackageloaded{multicol}{%
\bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
 \if@parafootRTL\@RTLtrue\else\@RTLfalse\fi%
 \hsize\textwidth%
 \setbox0=\hbox{}%
  \loop
    \unpenalty
    \setbox2=\lastbox
  \ifhbox2
    \setbox0=\hbox{\box2\unhbox0}
  \repeat}
}{%
\bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
 \if@parafootRTL\@RTLtrue\else\@RTLfalse\fi%
 \setbox0=\hbox{}%
  \loop
    \unpenalty
    \setbox2=\lastbox
  \ifhbox2
```

```
    \setbox0=\hbox{\box2\unhbox0}
  \repeat}}
\bidi@ensure@newcommand*{\m@mremovehboxes}{\setbox0=\lastbox
  \ifhbox0{\m@mremovehboxes}\unhbox0 \fi}
\bidi@ensure@newcommand*{\footfudgefiddle}{64}
\bidi@ensure@newcommand{\paragraphfootnotes}{%
  \@namedef{foottextfontv@r}{\foottextfont}%  % [RS]
  \let\@footnotetext\@parafootnotetext
  \let\@LTRfootnotetext\@paraLTRfootnotetext
  \let\@RTLfootnotetext\@paraRTLfootnotetext
  \dimen\footinsv@r=\footinsdim
  \count\footinsv@r=1000\relax
  \m@make@para@footgroup{v@r}%
  \let\@footgroupv@r\@para@footgroupv@r
  \let\@mpfootnotetext\@mpparafootnotetext
  \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
  \let\@mpRTLfootnotetext\@mpparaRTLfootnotetext
  \m@make@mppara@footgroup{v@r}%
  \let\mp@footgroupv@r\@mppara@footgroupv@r
  {\foottextfont
   \dimen0=\baselineskip
   \multiply\dimen0 by 1024
   \divide\dimen0 by \hsize \multiply\dimen0 by \footfudgefiddle
   \xdef\footfudgefactor{\expandafter\strip@pt\dimen0 }}}
\bidi@ensure@newcommand{\@parafootnotetext}[1]{\insert\footinsv@r{\@RTLfalse
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\foottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \setbox0=\vbox{\hsize=\maxdimen
    \color@begingroup
      \noindent \@parafootfmt{\if@RTL@footnote\beginR\else\beginL\fi#1\if@RTL@footnote\endR\e
    \color@endgroup}%
  \m@mungebox}\m@mmf@prepare}
\bidi@ensure@newcommand{\@paraLTRfootnotetext}[1]{\insert\footinsv@r{\@RTLfalse
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\LTRfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \setbox0=\vbox{\hsize=\maxdimen
    \color@begingroup
      \noindent \@paraLTRfootfmt{\beginL#1\endL}%
    \color@endgroup}%
  \m@mungebox}\m@mmf@prepare}
\bidi@ensure@newcommand{\@paraRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLfalse
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\RTLfoottextfont
  \@preamfntext
```

```
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \setbox0=\vbox{\hsize=\maxdimen
    \color@begingroup
      \noindent \@paraRTLfootfmt{\beginR#1\endR}%
    \color@endgroup}%
  \m@mungebox}\m@mmf@prepare}
\bidi@ensure@newcommand{\@parafootfmt}[1]{%
  \parindent=\z@
  \parfillskip=0pt \@plus 1fil
  {\footfootmark\strut {\foottextfont #1}\penalty-10}}
\bidi@ensure@newcommand{\@paraLTRfootfmt}[1]{%
  \parindent=\z@
  \parfillskip=0pt \@plus 1fil
  {\footfootmark\strut {\LTRfoottextfont #1}\penalty-10}}
\bidi@ensure@newcommand{\@paraRTLfootfmt}[1]{%
  \parindent=\z@
  \parfillskip=0pt \@plus 1fil
  {\footfootmark\strut {\RTLfoottextfont #1}\penalty-10}}
\bidi@ensure@newcommand{\@mpparafootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\foottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
    \setbox0=\vbox{\hsize=\maxdimen
      \color@begingroup
      \noindent \@parafootfmt{\if@RTL@footnote\beginR\else\beginL\fi#1\if@RTL@footnote\endR\e
      \color@endgroup}%
  \m@mungebox}\m@mmf@prepare}
\bidi@ensure@newcommand{\@mpparaLTRfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\LTRfoottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
    \setbox0=\vbox{\hsize=\maxdimen
      \color@begingroup
      \noindent \@paraLTRfootfmt{\beginL#1\endL}%
      \color@endgroup}%
  \m@mungebox}\m@mmf@prepare}
\bidi@ensure@newcommand{\@mpparaRTLfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\RTLfoottextfont
```

```
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
    \setbox0=\vbox{\hsize=\maxdimen
      \color@begingroup
      \noindent \@paraRTLfootfmt{\beginR#1\endR}%
      \color@endgroup}%
  \m@mungebox}\m@mmf@prepare}
\bidi@ensure@newcommand{\paragraphfootstyle}[1]{%
  \m@make@parafootnotetext{#1}%
  \m@make@mpparafootnotetext{#1}%
  \m@make@parafootfmt{#1}%
  \m@make@para@footgroup{#1}%
  \m@make@mppara@footgroup{#1}%
  \m@make@para@footstart{#1}%
  \bidi@namelongdef{@footnotetext#1}##1{%
    \@nameuse{@parafootnotetext#1}{##1}}%
  \bidi@namelongdef{@mpfootnotetext#1}##1{%
    \@nameuse{@mpparafootnotetext#1}{##1}}%
  \@namedef{@footgroup#1}{\@nameuse{@para@footgroup#1}}%
  \@namedef{mp@footgroup#1}{\@nameuse{@mppara@footgroup#1}}%
  \@namedef{@footstart#1}{\@nameuse{@para@footstart#1}}%
  \expandafter\dimen\csname footins#1\endcsname=\footinsdim
  \expandafter\count\csname footins#1\endcsname=1000\relax
  {\@nameuse{foottextfont#1}%
   \dimen0=\baselineskip
   \multiply\dimen0 by 1024
   \divide\dimen0 by \hsize \multiply\dimen0 by 64
   \xdef\footfudgefactor{\expandafter\strip@pt\dimen0 }}}
\bidi@ensure@newcommand{\m@make@parafootnotetext}[1]{%
\bidi@namelongdef{@parafootnotetext#1}##1{%
  \insert\@nameuse{footins#1}{
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\@nameuse{foottextfont#1}%
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
  \setbox0=\vbox{\hsize=\maxdimen
    \color@begingroup
      \noindent \@nameuse{@parafootfmt#1}{##1}%
    \color@endgroup}%
  \m@mungebox}\m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@mpparafootnotetext}[1]{%
\bidi@namelongdef{@mpparafootnotetext#1}##1{%
  \global\setbox\@nameuse{@mpfootins#1}\vbox{%
    \unvbox\@nameuse{@mpfootins#1}
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
```

```
      \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
    \setbox0=\vbox{\hsize=\maxdimen
      \color@begingroup
        \noindent \@nameuse{@parafootfmt#1}{##1}%
      \color@endgroup}%
    \m@mungebox}\m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@parafootfmt}[1]{%
\bidi@namelongdef{@parafootfmt#1}##1{%
  \parindent=\z@
  \parfillskip=0pt \@plus 1fil
  {\@nameuse{footfootmark#1}\strut
   {\@nameuse{foottextfont#1}##1}\penalty-10}}}
\bidi@ensure@newcommand{\m@make@para@footgroup}[1]{%
\@namedef{@para@footgroup#1}{%
  \unvbox\@nameuse{footins#1}
  \m@mmakehboxofhboxes
  \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
  \@nameuse{foottextfont#1}%
  \noindent\unhbox0\par}}
\bidi@ensure@newcommand{\m@make@mppara@footgroup}[1]{%
\@namedef{@mppara@footgroup#1}{%
  \unvbox\@nameuse{@mpfootins#1}
  \m@mmakehboxofhboxes
  \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
  \@nameuse{foottextfont#1}%
  \noindent\unhbox0\par}}
\bidi@ensure@newcommand{\m@make@para@footstart}[1]{%
\@namedef{@para@footstart#1}{%
  \vskip\bigskipamount
  \leftskip=\z@
  \rightskip=\z@
  \parindent=\z@
  \vskip\skip\@nameuse{footins#1}%
  \footnoterule}}
\bidi@ensure@newcommand*{\m@m@makecolfloats}{%
  \xdef\@freelist{\@freelist\@midlist}%
  \global\let\@midlist\@empty
  \@combinefloats}
\bidi@ensure@newcommand*{\m@m@makecoltext}{%
  \ifvbox\@kludgeins
    \@makespecialcolbox
  \else
    \setbox\@outputbox \vbox to\@colht{%
      \@texttop
      \dimen@ \dp\@outputbox
      \unvbox \@outputbox
      \vskip -\dimen@
      \@textbottom}%
  \fi}
\bidi@ensure@newcommand*{\m@m@makecolintro}{}
```

```
\bidi@ensure@newcommand*{\m@mopfootnote}{\setbox\@outputbox \vbox{%
  \boxmaxdepth\@maxdepth
  \@tempdima\dp\@cclv
  \unvbox\@cclv
  \vskip-\@tempdima
  \vskip \skip\footins
  \color@begingroup
    \normalcolor
    \footnoterule
    \unvbox \footins
  \color@endgroup}}
\bidi@ensure@newcommand*{\m@mopsidebar}{%
  \ifvoid\sideins\else
    \setbox\@outputbox \vbox{%
      \sidecontents
      \unvbox\@outputbox}
  \fi}
\gdef\mem@makecol{%
  \m@m@makecolintro
  \ifvoid\footins
    \setbox\@outputbox \box\@cclv
  \else
    \m@mopfootnote
  \fi
  \m@mdoextrafeet
  \m@m@makecolfloats
  \m@mopsidebar
  \m@m@makecoltext
  \global \maxdepth \@maxdepth}
\bidi@ensure@newcommand{\feetabovefloat}{\gdef\@makecol{\mem@makecol}}
\feetabovefloat%
```

7.54 extreport-xetex-bidi.def

```
\ProvidesFile{extreport-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for extreport class
\renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >-2\relax
    \addpenalty{-\@highpenalty}%
    \addvspace{2.25em \@plus\p@}%
    \begingroup
      \setlength\@tempdima{3em}%
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      {\leavevmode
       \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
       \nobreak
         \global\@nobreaktrue
         \everypar{\global\@nobreakfalse\everypar{}}%
    \endgroup
  \fi}
```

```
\renewcommand*\l@chapter[2]{%
  \ifnum \c@tocdepth >\m@ne
    \addpenalty{-\@highpenalty}%
    \vskip 1.0em \@plus\p@
    \setlength\@tempdima{1.5em}%
    \begingroup
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      \leavevmode \bfseries
      \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
      \hskip -\if@RTL\rightskip\else\leftskip\fi
      #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
      \penalty\@highpenalty
    \endgroup
  \fi}
\def\@makechapterhead#1{%
  \vspace*{50\p@}%
  {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
    \ifnum \c@secnumdepth >\m@ne
        \huge\bfseries \@chapapp\space \thechapter
        \par\nobreak
        \vskip 20\p@
    \fi
    \interlinepenalty\@M
    \Huge \bfseries #1\par\nobreak
    \vskip 40\p@
  }}
\def\@makeschapterhead#1{%
  \vspace*{50\p@}%
  {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
    \normalfont
    \interlinepenalty\@M
    \Huge \bfseries  #1\par\nobreak
    \vskip 40\p@
  }}
\renewcommand\left@footnoterule{%
  \kern-3\p@
  \hrule\@width.4\columnwidth
  \kern2.6\p@}
\renewcommand\right@footnoterule{%
  \hbox to \columnwidth
  {\beginR \vbox{%
  \kern-3\p@
  \hrule\@width.4\columnwidth
  \kern2.6\p@}\hfil\endR}}
\renewenvironment{thebibliography}[1]
     {\chapter*{\bibname
        \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
      \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
      \list{\@biblabel{\@arabic\c@enumiv}}%
```

```
           {\settowidth\labelwidth{\@biblabel{#1}}%
            \leftmargin\labelwidth
            \advance\leftmargin\labelsep
            \@openbib@code
            \usecounter{enumiv}%
            \let\p@enumiv\@empty
            \renewcommand\theenumiv{\@arabic\c@enumiv}}%
      \sloppy\clubpenalty4000\widowpenalty4000%
      \sfcode`\.\@m}
     {\def\@noitemerr
       {\@latex@warning{Empty `thebibliography' environment}}%
      \endlist}
\if@titlepage
\renewcommand\maketitle{\begin{titlepage}%
\let\footnotesize\small
\let\right@footnoterule\relax
\let\left@footnoterule\relax
\let\textwidth@footnoterule\relax
\let \footnote \thanks
\null\vfil
\vskip 60\p@
\begin{center}%
  {\LARGE \@title \par}%
  \vskip 3em%
  {\large
   \lineskip .75em%
    \begin{tabular}[t]{c}%
      \@author
    \end{tabular}\par}%
    \vskip 1.5em%
  {\large \@date \par}%       % Set date in \large size.
\end{center}\par
\@thanks
\vfil\null
\end{titlepage}%
\setcounter{footnote}{0}%
\global\let\thanks\relax
\global\let\maketitle\relax
\global\let\@thanks\@empty
\global\let\@author\@empty
\global\let\@date\@empty
\global\let\@title\@empty
\global\let\title\relax
\global\let\author\relax
\global\let\date\relax
\global\let\and\relax
}
\else
\renewcommand\maketitle{\par
  \begingroup
```

```
    \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
    \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
    \long\def\@makefntext##1{\parindent 1em\noindent
            \hb@xt@1.8em{%
                \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
    \if@twocolumn
      \ifnum \col@number=\@ne
        \@maketitle
      \else
        \twocolumn[\@maketitle]%
      \fi
    \else
      \newpage
      \global\@topnum\z@   % Prevents figures from going at top of page.
      \@maketitle
    \fi
    \thispagestyle{plain}\@thanks
  \endgroup
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\maketitle\relax
  \global\let\@maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty
  \global\let\@title\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\def\@maketitle{%
  \newpage
  \null
  \vskip 2em%
  \begin{center}%
  \let \footnote \thanks
    {\LARGE \@title \par}%
    \vskip 1.5em%
    {\large
      \lineskip .5em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
    \vskip 1em%
    {\large \@date}%
  \end{center}%
  \par
  \vskip 1.5em}
\fi
```

```
\renewcommand\thesection      {\thechapter\@SepMark\@arabic\c@section}
\renewcommand\thesubsection   {\thesection\@SepMark\@arabic\c@subsection}
\renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
\renewcommand\theparagraph    {\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
\renewcommand\theequation{%
  \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
\renewcommand\thefigure{%
  \ifnum \c@chapter>\z@\thechapter\@SepMark\fi \@arabic\c@figure}
\renewcommand\thetable{%
  \ifnum \c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
```

7.55 fancybox-xetex-bidi.def

```
\ProvidesFile{fancybox-xetex-bidi.def}[2013/05/01 v0.1 bidi adaptations for fancybox package
\def\fancy@@oval#1#2#3{%
  \boxmaxdepth \maxdimen
  \@ovttrue \@ovbtrue \@ovltrue \@ovrtrue
  \@tfor\@tempa :=#3\do{\csname @ov\@tempa false\endcsname}%
  \@ovxx#1\relax
  \advance\@ovxx-\@wholewidth
  \@ovyy#2\relax
  \advance\@ovyy-\@wholewidth
  \@tempdimb \ifdim \@ovyy >\@ovxx \@ovxx\else \@ovyy \fi
  \advance\@tempdimb-2\p@
  \ifdim\@tempdimb>\the@cornersize\relax
    \@tempdimb=\the@cornersize
  \fi
  \@getcirc\@tempdimb
  \@ovro\ht\@tempboxa \@ovri\dp\@tempboxa
  \@ovdx\@ovxx \advance\@ovdx-\@tempdima \divide\@ovdx \tw@
  \@ovdy\@ovyy \advance\@ovdy-\@tempdima \divide\@ovdy \tw@
  \@circlefnt
  \setbox\@tempboxa\hbox{\beginL%
    \if@ovr \@ovvert32\kern -\@tempdima \fi
    \if@ovl \kern \@ovxx \@ovvert01\kern -\@tempdima \kern -\@ovxx \fi
    \if@ovt \@ovhorz \kern -\@ovxx \fi
    \if@ovb \raise \@ovyy \@ovhorz \fi\endL}%
  \advance\@ovdx\@ovro
  \advance\@ovdy\@ovro
  \advance\@ovxx\@wholewidth
  \wd\@tempboxa=\@ovxx
  \dp\@tempboxa=\z@}
```

7.56 fancyhdr-xetex-bidi.def

```
\ProvidesFile{fancyhdr-xetex-bidi.def}[2012/04/18 v0.4 bidi adaptations for fancyhdr package
\let\fnch@everypar\everypar%
\def\@fancyhead#1#2#3#4#5{\if@RTLmain\beginR\else\beginL\fi#1\if@RTLmain\endR\else\endL\fi\hb
  \@fancyvbox\headheight{\hbox
    {\rlap{\parbox[b]{\headwidth}{\bidi@raggedright\if@RTLmain\beginR\else\beginL\fi#2\if@RTL
```

```
      \parbox[b]{\headwidth}{\centering\if@RTLmain\beginR\else\beginL\fi#3\if@RTLmain\endR\el
      \llap{\parbox[b]{\headwidth}{\bidi@raggedleft\if@RTLmain\beginR\else\beginL\fi#4\if@RTL
\def\@fancyfoot#1#2#3#4#5{\if@RTLmain\beginR\else\beginL\fi#1\if@RTLmain\endR\else\endL\fi\hb
    \@fancyvbox\footskip{\footrule
      \hbox{\rlap{\parbox[t]{\headwidth}{\bidi@raggedright\if@RTLmain\beginR\else\beginL\fi#2
        \parbox[t]{\headwidth}{\centering\if@RTLmain\beginR\else\beginL\fi#3\if@RTLmain\endR\
        \llap{\parbox[t]{\headwidth}{\bidi@raggedleft\if@RTLmain\beginR\else\beginL\fi#4\if@R
```

7.57 fix2col-xetex-bidi.def

```
\ProvidesFile{fix2col-xetex-bidi.def}[2013/04/10 v0.3 bidi adaptations for fix2col package fo
\def\RTL@outputdblcol{%
  \if@firstcolumn
    \global\@firstcolumnfalse
    \global\setbox\@leftcolumn\copy\@outputbox
    \splitmaxdepth\maxdimen
    \vbadness\maxdimen
    \setbox\@outputbox\vsplit\@outputbox to\maxdimen
    \toks@\expandafter{\topmark}%
    \xdef\@firstcoltopmark{\the\toks@}%
    \toks@\expandafter{\splitfirstmark}%
    \xdef\@firstcolfirstmark{\the\toks@}%
    \ifx\@firstcolfirstmark\@empty
      \global\let\@setmarks\relax
    \else
      \gdef\@setmarks{%
        \let\firstmark\@firstcolfirstmark
        \let\topmark\@firstcoltopmark}%
    \fi
\else  \global\@firstcolumntrue
\setbox\@outputbox \vbox {\hbox to\textwidth {%
\hskip \columnwidth
\hfil \vrule width\columnseprule \hfil
\hbox to\columnwidth {\box\@leftcolumn \hss}%
\hskip -\textwidth
\hbox to\columnwidth{\box\@outputbox \hss}%
\hskip \columnsep
\hskip \columnwidth }}%
\@combinedblfloats \@setmarks \@outputpage
\begingroup \@dblfloatplacement \@startdblcolumn
\@whilesw\if@fcolmade \fi
{\@outputpage \@startdblcolumn }\endgroup
\fi}
\def\LTR@outputdblcol{%
  \if@firstcolumn
    \global\@firstcolumnfalse
    \global\setbox\@leftcolumn\copy\@outputbox
    \splitmaxdepth\maxdimen
    \vbadness\maxdimen
    \setbox\@outputbox\vsplit\@outputbox to\maxdimen
```

```
    \toks@\expandafter{\topmark}%
    \xdef\@firstcoltopmark{\the\toks@}%
    \toks@\expandafter{\splitfirstmark}%
    \xdef\@firstcolfirstmark{\the\toks@}%
    \ifx\@firstcolfirstmark\@empty
      \global\let\@setmarks\relax
    \else
      \gdef\@setmarks{%
        \let\firstmark\@firstcolfirstmark
        \let\topmark\@firstcoltopmark}%
    \fi
  \else
    \global\@firstcolumntrue
    \setbox\@outputbox\vbox{%
     \hb@xt@\textwidth{%
        \hb@xt@\columnwidth{\box\@leftcolumn \hss}%
        \hfil
        \vrule \@width\columnseprule
        \hfil
       \hb@xt@\columnwidth{\box\@outputbox \hss}}}%
  \@combinedblfloats
    \@setmarks
    \@outputpage
    \begingroup
      \@dblfloatplacement
      \@startdblcolumn
      \@whilesw\if@fcolmade \fi{\@outputpage\@startdblcolumn}%
    \endgroup
  \fi}
```

7.58 fleqn-xetex-bidi.def

```
\ProvidesFile{fleqn-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for fleqn tag for XeTeX
\renewcommand\[{\relax
                \ifmmode\@badmath
                \else
                  \begin{trivlist}%
                    \@beginparpenalty\predisplaypenalty
                    \@endparpenalty\postdisplaypenalty
                    \item[]\leavevmode
                    \hb@xt@\linewidth\bgroup \beginL$\m@th\displaystyle %$
                      \hskip\mathindent\bgroup
                \fi}
\renewcommand\]{\relax
                \ifmmode
                      \egroup $\hfil% $
                    \endL\egroup
                  \end{trivlist}%
                \else \@badmath
                \fi}
```

```
\renewenvironment{equation}%
    {\@beginparpenalty\predisplaypenalty
     \@endparpenalty\postdisplaypenalty
     \refstepcounter{equation}%
     \trivlist \item[]\leavevmode
       \hb@xt@\linewidth\bgroup\beginL $\m@th% $
         \displaystyle
         \hskip\mathindent}%
        {$\hfil % $
         \displaywidth\linewidth\hbox{\@eqnnum}%
       \endL\egroup
     \endtrivlist}
```

7.59 float-xetex-bidi.def

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

7.60 floatrow-xetex-bidi.def

```
\ProvidesFile{floatrow-xetex-bidi.def}[2013/04/08 v0.1 bidi adaptations for floatrow package
\renewcommand\flnew@within[1]{\@addtoreset{\FB@captype}{#1}%
  \expandafter\edef\csname the\FB@captype\endcsname{%
      \expandafter\noexpand\csname
        the#1\endcsname\@SepMark\noexpand\arabic{\FB@captype}}}
```

7.61 flowfram-xetex-bidi.def

```
\ProvidesFile{flowfram-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for flowfram package
\def\@outputdblcol{%
\@nxtcol=\c@thisframe
\c@curpg=\c@page
\@g@tnextcol{\@nxtcol}%
\if@ff@nwpg % next flow frame starts on new page
  \global\@firstcolumntrue
  \@setcolbox\c@thisframe
  \if@specialpage
    \global\@specialpagefalse
    \@nameuse{ps@\@specialstyle}\relax
  \fi
  \if@twoside
    \ifodd\count\z@
      \let\@thehead\@oddhead
      \let\@thefoot\@oddfoot
    \else
```

```
      \let\@thehead\@evenhead
      \let\@thefoot\@evenfoot
    \fi
  \else
    \let\@thehead\@oddhead
    \let\@thefoot\@oddfoot
  \fi
  \@begindvi
  \@dodynamicthehead\@dodynamicthefoot
  \vbadness=\@M
  \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
  \@combinedblfloats
  \@outputpage
\advance\c@curpg by -\c@page\relax
  \whiledo{\c@curpg>0}{\advance\c@curpg by -1\relax
  \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
\@outputpage}
  \begingroup
    \@dblfloatplacement
    \@startdblcolumn
    \@whilesw \if@fcolmade \fi
       {\@outputpage \@startdblcolumn }\endgroup
  \@resetst@tics
  \@resetdyn@mics
\else % still on same page, save contents of box255
  \global\@firstcolumnfalse
  \@setcolbox\c@thisframe
\fi
\global\c@thisframe=\@nxtcol
\@setcol{\c@thisframe}\relax
\global\@colht\vsize
}
\def\@outputpage{%
\begingroup
  \let\protect\noexpand
  \@resetactivechars
  \global\let\@@if@newlist\if@newlist
  \global\@newlistfalse\@parboxrestore
  \shipout\vbox{\set@typeset@protect
    \aftergroup
    \endgroup
    \aftergroup
    \set@typeset@protect
    \reset@font\normalsize\normalsfcodes
    \let\label\@gobble
    \let\index\@gobble
    \let\glossary\@gobble
    \baselineskip\z@skip
    \lineskip\z@skip
    \lineskiplimit\z@
```

```
    \vskip\topmargin\moveright\@themargin
    \vbox{%
      \vskip\headheight
      \vskip\headsep
      \box\@outputbox
    }}%
  \global\let\if@newlist\@@if@newlist
  \stepcounter{page}%
  \setcounter{displayedframe}{0}%
  \let\firstmark\botmark}


\newcommand*\bidi@s@tfftextcol{\ifthenelse{\equal{\ff@txtcol}{}}{}{%
\expandafter\bidicolor\ff@txtcol}}

\newcommand{\bidi@ff@box}[3]{{\@ffbackground{\vbox to#2
{\hb@xt@ #1{\hss{\bidi@s@tfftextcol #3}\hss}\vss\kern\z@}}}}


\renewcommand*{\@docolbox}[1]{%
\edef\ff@frametype{%
\csname @ff@frametype@\romannumeral#1\endcsname}%
\edef\ff@col{\csname @ff@col@\romannumeral#1\endcsname}%
\edef\ff@txtcol{\csname @ff@txtcol@\romannumeral#1\endcsname}%
\edef\ff@backcol{\csname @ff@backcol@\romannumeral#1\endcsname}%
\@ff@setoffset{#1}%
\rotateframe{\csname @ff@angle@\romannumeral#1\endcsname}{%
\ifthenelse{\boolean{columnframe\romannumeral#1}}{%
\@ff@fbox{\csname colwidth\romannumeral#1\endcsname}%
{\csname colheight\romannumeral#1\endcsname}{%
\expandafter\box\csname column\romannumeral#1\endcsname}{%
\csname\ff@frametype\endcsname}%
}{%
\bidi@ff@box{\csname colwidth\romannumeral#1\endcsname}%
{\csname colheight\romannumeral#1\endcsname}{%
\expandafter\box\csname column\romannumeral#1\endcsname}%
}}}
\@ifclassloaded{book}{%
\renewcommand\theequation
  {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
\renewcommand \thefigure
     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
\renewcommand \thetable
     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
\renewcommand \thechapter {\@arabic\c@chapter}
\renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
\renewcommand\thesubsection   {\thesection\@SepMark\@arabic\c@subsection}
\renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
\renewcommand\theparagraph    {\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}{}
```

```
\@ifclassloaded{report}{%
\renewcommand\theequation
  {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
\renewcommand \thefigure
     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
\renewcommand \thetable
     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
\renewcommand \thechapter {\@arabic\c@chapter}
\renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
\renewcommand\thesubsection   {\thesection\@SepMark\@arabic\c@subsection}
\renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
\renewcommand\theparagraph    {\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}{}
\renewcommand{\rotateframe}[2]{\if@ttb@rotate
\rotatebox{#1}{\if@RTL\beginL\fi#2\if@RTL\endL\fi}%
\else
#2\relax
\fi}
```

7.62 footnote-xetex-bidi.def

```
\ProvidesFile{footnote-xetex-bidi.def}[2013/04/26 v0.8 bidi footnote macros for XeTeX engine]
\if@RTLmain\@RTL@footnotetrue\else\@RTL@footnotefalse\fi
\newif\ifbidi@autofootnoterule
\def\bidi@mpfootnoterule{\footnoterule}
\newcounter{footdir@label}
\renewcommand*{\thefootdir@label}{footdir@\the\value{footdir@label}}
\newcommand*{\footdir@write}{%
  \stepcounter{footdir@label}%
  \zref@labelbyprops{\thefootdir@label}{abspage}%
}
\newif\iffootdir@debug
\newcommand*{\debugfootnotedirection}{\footdir@debugtrue}
\newtoks\footdir@toks
\newcommand*{\footdir@debug}[1]{%
  \iffootdir@debug
    \typeout{[footdir] #1}%
  \fi
}
\@ifpackagelater{zref-abspage}{2012/10/27}{%
  \newcommand*{\footdir@LeftRightElse}{%
    \ltx@ifundefined{footdir@\the\value{zabspage}}{%
      \footdir@debug{abspage \the\value{zabspage}: else}%
      \ltx@thirdofthree
    }{%
      \if\csname footdir@\the\value{zabspage}\endcsname L%
        \footdir@debug{abspage \the\value{zabspage}: left}%
        \expandafter\ltx@firstofthree
      \else
        \footdir@debug{abspage \the\value{zabspage}: right}%
```

```
        \expandafter\ltx@secondofthree
      \fi
    }%
  }%
}{%
  \providecommand*{\c@zabspage}{\c@abspage}%
  \newcommand*{\footdir@LeftRightElse}{%
    \footdir@write
    \zifrefundefined{\thefootdir@label}{%
      \footdir@debug{abspage ??: else}%
      \ltx@thirdofthree
    }{%
      \edef\footdir@abspage{%
        \zref@extractdefault{\thefootdir@label}{abspage}{0}%
      }%
      \ltx@ifundefined{footdir@\footdir@abspage}{%
        \footdir@debug{\footdir@abspage: else}%
        \ltx@thirdofthree
      }{%
        \if\csname footdir@\footdir@abspage\endcsname L%
          \footdir@debug{\footdir@abspage: left}%
          \expandafter\ltx@firstofthree
        \else
          \footdir@debug{\footdir@abspage: right}%
          \expandafter\ltx@secondofthree
        \fi
      }%
    }%
  }%
}
\newcommand*{\footdir@fntext}[1]{%
  \zifrefundefined{\thefootdir@label}{%
  }{%
    \edef\footdir@name{%
      footdir@\zref@extractdefault{\thefootdir@label}{abspage}{0}%
    }%
    \@ifundefined{\footdir@name}{%
      \expandafter\gdef\csname\footdir@name\endcsname{#1}%
    }{}%
  }%
}

\newcommand*{\footdir@temp}[3]{%
  \@ifdefinable{#1}{%
    \let#1#2%
    \renewcommand{#2}[1]{%
      \footdir@write
      \footdir@fntext{#3}%
      \stepcounter{footdir@label}%
      \footdir@fntext{#3}%
```

```
      \footdir@toks{##1}%
      \footdir@toks\expandafter{%
        \the\expandafter\footdir@toks
        \expandafter
        \zref@labelbyprops\expandafter{\thefootdir@label}{abspage}%
      }%
      \expandafter#1\expandafter{\the\footdir@toks}%
    }%
  }%
}

\def\right@footnoterule{%
  \hbox to \columnwidth
  {\beginR \vbox{\kern -3\p@
   \hrule width .4\columnwidth \kern2.6\p@}\hfil\endR}}
\def\left@footnoterule{%
   \hrule width .4\columnwidth\kern 2.6\p@}
\def\textwidth@footnoterule{\kern-3\p@
  \hrule \@width \columnwidth \kern 2.6\p@}
\def\leftfootnoterule{%
\bidi@autofootnoterulefalse%
\def\footnoterule{\left@footnoterule}}
\let\LRfootnoterule=\leftfootnoterule
\def\rightfootnoterule{%
\bidi@autofootnoterulefalse%
\def\footnoterule{\right@footnoterule}}
\def\textwidthfootnoterule{%
\bidi@autofootnoterulefalse%
\def\footnoterule{\textwidth@footnoterule}}



\def\auto@footnoterule{%
\footdir@LeftRightElse%
\left@footnoterule%
\right@footnoterule%
\left@footnoterule%
}



\def\autofootnoterule{%
\bidi@autofootnoteruletrue%
\def\footnoterule{\auto@footnoterule}%
}

\newcommand*{\SplitFootnoteRule}{%
  \gdef\split@prev{0}
  \let\pagefootnoterule\footnoterule
  \let\mpfootnoterule\footnoterule
```

```
  \def\splitfootnoterule{\kern-3\p@ \hrule \kern2.6\p@}
  \def\footnoterule{\relax
    \ifx \@listdepth\@mplistdepth
      \mpfootnoterule
    \else
      \ifnum\split@prev=\z@
        \pagefootnoterule
      \else
        \splitfootnoterule
      \fi
      \xdef\split@prev{\the\insertpenalties}%
    \fi
  }%
}



\def\RTLfootnote{\@ifnextchar[\@xRTLfootnote{\stepcounter\@mpfn
     \protected@xdef\@thefnmark{\thempfn}%
     \@footnotemark\@RTLfootnotetext}}
\def\@xRTLfootnote[#1]{%
   \begingroup
     \csname c@\@mpfn\endcsname #1\relax
     \unrestored@protected@xdef\@thefnmark{\thempfn}%
   \endgroup
   \@footnotemark\@RTLfootnotetext}
\def\LTRfootnote{\@ifnextchar[\@xLTRfootnote{\stepcounter\@mpfn
     \protected@xdef\@thefnmark{\thempfn}%
     \@footnotemark\@LTRfootnotetext}}
\def\@xLTRfootnote[#1]{%
   \begingroup
     \csname c@\@mpfn\endcsname #1\relax
     \unrestored@protected@xdef\@thefnmark{\thempfn}%
   \endgroup
   \@footnotemark\@LTRfootnotetext}


\def\setfootnoteRL{\@RTL@footnotetrue}
\def\unsetfootnoteRL{\@RTL@footnotefalse}
\def\setfootnoteLR{\unsetfootnoteRL}

\long\def\@footnotetext#1{\insert\footins{%
    \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
    \reset@font\footnotesize
    \interlinepenalty\interfootnotelinepenalty
    \splittopskip\footnotesep
    \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
```

```
      \csname p@footnote\endcsname\@thefnmark
    }%
    \color@begingroup
      \@makefntext{%
        \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
    \color@endgroup}}%


\long\def\@RTLfootnotetext#1{\insert\footins{%
    \@RTLtrue%
    \reset@font\footnotesize
    \interlinepenalty\interfootnotelinepenalty
    \splittopskip\footnotesep
    \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
       \csname p@footnote\endcsname\@thefnmark
    }%
    \color@begingroup
      \@makefntext{%
        \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
    \color@endgroup}}%

\long\def\@LTRfootnotetext#1{\insert\footins{%
    \@RTLfalse%
    \reset@font\footnotesize
    \interlinepenalty\interfootnotelinepenalty
    \splittopskip\footnotesep
    \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
       \csname p@footnote\endcsname\@thefnmark
    }%
    \color@begingroup
      \@makefntext{%
        \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
    \color@endgroup}}%

\AtBeginDocument{%
\if@RTL@footnote
  \newcommand*{\bidi@footdir@footnote}{R}
\else
  \newcommand*{\bidi@footdir@footnote}{L}
\fi%
}

\footdir@temp\footdir@ORG@bidi@footnotetext\@footnotetext{\bidi@footdir@footnote}%
\footdir@temp\footdir@ORG@bidi@RTLfootnotetext\@RTLfootnotetext{R}%
\footdir@temp\footdir@ORG@bidi@LTRfootnotetext\@LTRfootnotetext{L}%

```

```
\long\def\@mpRTLfootnotetext#1{%
  \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@footr
  \global\setbox\@mpfootins\vbox{\@RTLtrue%
    \unvbox\@mpfootins
    \reset@font\footnotesize
    \hsize\columnwidth
    \@parboxrestore
    \protected@edef\@currentlabel
         {\csname p@mpfootnote\endcsname\@thefnmark}%
    \color@begingroup
      \@makefntext{%
        \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
    \color@endgroup}}
\long\def\@mpLTRfootnotetext#1{%
 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footnot
  \global\setbox\@mpfootins\vbox{\@RTLfalse%
    \unvbox\@mpfootins
    \reset@font\footnotesize
    \hsize\columnwidth
    \@parboxrestore
    \protected@edef\@currentlabel
         {\csname p@mpfootnote\endcsname\@thefnmark}%
    \color@begingroup
      \@makefntext{%
        \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
    \color@endgroup}}
\long\def\@mpfootnotetext#1{%
 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\bidi@mpfootnoter
  \global\setbox\@mpfootins\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
    \unvbox\@mpfootins
    \reset@font\footnotesize
    \hsize\columnwidth
    \@parboxrestore
    \protected@edef\@currentlabel
         {\csname p@mpfootnote\endcsname\@thefnmark}%
    \color@begingroup
      \@makefntext{%
        \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
    \color@endgroup}}
\def\@iiiminipage#1#2[#3]#4{%
  \leavevmode
  \@pboxswfalse
  \if@RTLtab\@bidi@list@minipage@parbox@not@nobtrue\fi
  \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi\f
  \setlength\@tempdima{#4}%
  \def\@mpargs{{#1}{#2}[#3]{#4}}%
  \setbox\@tempboxa\vbox\bgroup
    \color@begingroup
      \hsize\@tempdima
      \textwidth\hsize \columnwidth\hsize
```

```
      \@parboxrestore
      \def\@mpfn{mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
      \let\@footnotetext\@mpfootnotetext
      \let\@LTRfootnotetext\@mpLTRfootnotetext
      \let\@RTLfootnotetext\@mpRTLfootnotetext
      \let\@listdepth\@mplistdepth \@mplistdepth\z@
      \@minipagerestore
      \@setminipage}
\def\endminipage{%
    \par
    \unskip
    \ifvoid\@mpfootins\else
      \vskip\skip\@mpfootins
      \normalcolor
      \bidi@mpfootnoterule
      \unvbox\@mpfootins
    \fi
    \@minipagefalse   %% added 24 May 89
  \color@endgroup
  \egroup
  \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
\def\LTRthanks#1{\footnotemark
    \protected@xdef\@thanks{\@thanks
        \protect\LTRfootnotetext[\the\c@footnote]{#1}}%
}
\def\LTRfootnotetext{%
     \@ifnextchar [\@xLTRfootnotenext
       {\protected@xdef\@thefnmark{\thempfn}%
    \@LTRfootnotetext}}
\def\@xLTRfootnotenext[#1]{%
  \begingroup
     \csname c@\@mpfn\endcsname #1\relax
     \unrestored@protected@xdef\@thefnmark{\thempfn}%
  \endgroup
  \@LTRfootnotetext}
\def\RTLthanks#1{\footnotemark
    \protected@xdef\@thanks{\@thanks
        \protect\RTLfootnotetext[\the\c@footnote]{#1}}%
}
\let\@thanks\@empty
\def\RTLfootnotetext{%
     \@ifnextchar [\@xRTLfootnotenext
       {\protected@xdef\@thefnmark{\thempfn}%
    \@RTLfootnotetext}}
\def\@xRTLfootnotenext[#1]{%
  \begingroup
     \csname c@\@mpfn\endcsname #1\relax
     \unrestored@protected@xdef\@thefnmark{\thempfn}%
  \endgroup
  \@RTLfootnotetext}
```

```
\leftfootnoterule
```

7.63 framed-xetex-bidi.def

```
\ProvidesFile{framed-xetex-bidi.def}[2012/06/05 v0.3 bidi adaptations for framed package for
\renewcommand\TitleBarFrame[3][]{\begingroup
  \ifx\delimiter#1\delimiter
    \let\TF@conlab\@empty
  \else
    \def\TF@conlab{% continuation label
     \nointerlineskip
     \smash{\rlap{\kern\wd\@tempboxa\kern\fboxrule\kern\fboxsep #1}}}%
  \fi
  %\let\TF@savecolor\current@color
  \textcolor{TFFrameColor}{%
  \CustomFBox
    {\TF@Title{#2}}{\TF@conlab}%
    \fboxrule\fboxrule\fboxrule\fboxrule
    %{\let\current@color\TF@savecolor\set@color #3}%
    {\normalcolor #3}%
  }\endgroup
}
\renewenvironment{titled-frame}[1]{%
  \def\FrameCommand{\fboxsep8pt\fboxrule2pt
     \TitleBarFrame{\textbf{#1}}}%
  \def\FirstFrameCommand{\fboxsep8pt\fboxrule2pt
     \TitleBarFrame[$\if@RTL\blacktriangleleft\else\blacktriangleright\fi$]{\textbf{#1}}}%
  \def\MidFrameCommand{\fboxsep8pt\fboxrule2pt
     \TitleBarFrame[$\if@RTL\blacktriangleleft\else\blacktriangleright\fi$]{\textbf{#1\ (cont
  \def\LastFrameCommand{\fboxsep8pt\fboxrule2pt
     \TitleBarFrame{\textbf{#1\ (cont)}}}%
  \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
%  note: 8 + 2 + 8 + 2 = 20.  Don't use \width because the frame title
%  could interfere with the width measurement.
 {\endMakeFramed}
\chardef\FrameRestore=\catcode`\| % for debug
\catcode`\|=\catcode`\% % (debug: insert space after backslash)
\def\fb@put@frame#1#2{\relax
 \ifdim\pagegoal=\maxdimen \pagegoal\vsize \fi
|   \message{=============== Entering putframe ====================^^J
|     \pagegoal=\the\pagegoal,  \pagetotal=\the\pagetotal. }%
 \ifinner
   \fb@putboxa#1%
   \fb@afterframe
 \else
  \dimen@\pagegoal \advance\dimen@-\pagetotal % natural space left on page
  \ifdim\dimen@<2\baselineskip % Too little room on page
|   \message{Page has only \the\dimen@\space room left; eject. }%
    \eject \fb@adjheight \fb@put@frame#1#2%
  \else % there's appreciable room left on the page
```

```
9665      \fb@sizeofframe#1%
9666 |    \message{\string\pagetotal=\the\pagetotal,
9667 |        \string\pagegoal=\the\pagegoal,
9668 |        \string\pagestretch=\the\pagestretch,
9669 |        \string\pageshrink=\the\pageshrink,
9670 |        \string\fb@frh=\the\fb@frh. \space}
9671 |    \message{^^JBox of size \the\ht\@tempboxa\space}%
9672      \begingroup % temporarily set \dimen@ to be...
9673      \advance\dimen@.8\pageshrink  % maximum space available on page
9674      \advance\dimen@-\fb@frh\relax % max space available for frame's contents
9675 %%% LOOKS SUBTRACTED AND ADDED, SO DOUBLE ACCOUNTING!
9676      \expandafter\endgroup
9677      % expand \ifdim, then restore \dimen@ to real room left on page
9678      \ifdim\dimen@>\ht\@tempboxa % whole box does fit
9679 |       \message{fits in \the\dimen@. }%
9680         % ToDo: Change this to use vsplit anyway to capture the marks
9681         % MERGE THIS WITH THE else CLAUSE!!!
9682         \fb@putboxa#1%
9683         \fb@afterframe
9684      \else % box must be split
9685 |       \message{must be split to fit in \the\dimen@. }%
9686         % update frame measurement to use \FirstFrameCommand or \MidFrameCommand
9687         \fb@sizeofframe#2%
9688         \setbox\@tempboxa\vbox{% simulate frame and flexiblity of the page:
9689            \vskip \fb@frh \@plus\pagestretch \@minus.8\pageshrink
9690            \kern137sp\kern-137sp\penalty-30
9691            \unvbox\@tempboxa}%
9692         \edef\fb@resto@set{\boxmaxdepth\the\boxmaxdepth
9693                            \splittopskip\the\splittopskip}%
9694         \boxmaxdepth\z@ \splittopskip\z@
9695 |       \message{^^JPadded box of size \the\ht\@tempboxa\space split to \the\dimen@}%
9696         % Split box here
9697         \setbox\tw@\vsplit\@tempboxa to\dimen@
9698 |       \toks99\expandafter{\splitfirstmark}%
9699 |       \toks98\expandafter{\splitbotmark}%
9700 |       \message{Marks are: \the\toks99, \the\toks98. }%
9701         \setbox\tw@\vbox{\unvbox\tw@}% natural-sized
9702 |       \message{Natural height of split box is \the\ht\tw@, leaving
9703 |          \the\ht\@tempboxa\space remainder. }%
9704         % If the split-to size > (\vsize-\topskip), then set box to full size.
9705         \begingroup
9706         \advance\dimen@\topskip
9707         \expandafter\endgroup
9708         \ifdim\dimen@>\pagegoal
9709 |         \message{Frame is big -- Use up the full column. }%
9710           \dimen@ii\pagegoal
9711           \advance\dimen@ii -\topskip
9712           \advance\dimen@ii \FrameHeightAdjust\relax
9713         \else  % suspect this is implemented incorrectly:
9714           % If the split-to size > feasible room_on_page, rebox it smaller.
```

```
          \advance\dimen@.8\pageshrink
          \ifdim\ht\tw@>\dimen@
            \message{Box too tall; rebox it to \the\dimen@. }%
            \dimen@ii\dimen@
          \else % use natural size
            \dimen@ii\ht\tw@
          \fi
        \fi
        % Re-box contents to desired size \dimen@ii
        \advance\dimen@ii -\fb@frh
        \setbox\tw@\vbox to\dimen@ii \bgroup
        % remove simulated frame and page flexibility:
        \vskip -\fb@frh \@plus-\pagestretch \@minus-.8\pageshrink
        \unvbox\tw@ \unpenalty\unpenalty
        \ifdim\lastkern=-137sp % whole box went to next page
           \message{box split at beginning! }%
           % need work here???
           \egroup \fb@resto@set \eject % (\vskip for frame size was discarded)
           \fb@adjheight
           \fb@put@frame#1#2% INSERTED ???
        \else % Got material split off at the head
           \egroup \fb@resto@set
           \ifvoid\@tempboxa % it all fit after all
              \message{box split at end! }%
              \setbox\@tempboxa\box\tw@
              \fb@putboxa#1%
              \fb@afterframe
           \else % it really did split
              \message{box split as expected. Its reboxed height is \the\ht\tw@. }%
              \ifdim\wd\tw@>\z@
                \wd\tw@\wd\@tempboxa
                \centerline{#2{\hboxL{\box\tw@}}}%  ??? \centerline bad idea
              \else
                \message{Zero width means likely blank. Don't frame it (guess)}%
                \box\tw@
              \fi
              \hrule \@height\z@ \@width\hsize
              \eject
              \fb@adjheight
              \fb@put@frame\LastFrameCommand\MidFrameCommand
  \fi\fi\fi\fi\fi
}
\def\fb@putboxa#1{%
  \ifvoid\@tempboxa
    \PackageWarning{framed}{Boxa is void -- discard it. }%
  \else
    \message{Frame and place boxa. }%
    %{\showoutput\showbox\@tempboxa}%
    \centerline{#1{\hboxL{\box\@tempboxa}}}%
  \fi
```

```
}
\catcode`\|=\FrameRestore
\def\FrameRestore{%
   \let\if@nobreak\iffalse
   \let\if@noskipsec\iffalse
   \let\-\@dischyph
   \let\'\@acci\let\`\@accii\let\=\@acciii
   %  \message{FrameRestore:
   %    \@totalleftmargin=\the \@totalleftmargin,
   %    \rightmargin=\the\rightmargin,
   %    \@listdepth=\the\@listdepth.  }%
   % Test if we are in a list (or list-like paragraph)
   \ifnum \ifdim\@totalleftmargin>\z@ 1\fi
          \ifdim\rightmargin>\z@ 1\fi
          \ifnum\@listdepth>\z@ 1\fi 0>\z@
     %     \message{In a list: \linewidth=\the\linewidth, \@totalleftmargin=\the\@totalleftma
     %       \parshape=\the\parshape, \columnwidth=\the\columnwidth, \hsize=\the\hsize,
     %       \labelwidth=\the\labelwidth. }%
     \@setminipage % snug fit around the item
     % Now try to propageate changes of width from \hsize to list parameters.
     % This is deficient, but a more advanced way to indicate modification to text
     % dimensions is not (yet) provided; in particular, no separate left/right
     % adjustment.
     \advance\linewidth-\columnwidth \advance\linewidth\hsize
     \parshape\@ne \@totalleftmargin \linewidth
   \else % Not in list
     \linewidth=\hsize
     %\message{No list, set \string\linewidth=\the\hsize. }%
   \fi
   \sloppy
}
```

7.64 ftnright-xetex-bidi.def

```
\ProvidesFile{ftnright-xetex-bidi.def}[2013/04/10 v0.3 bidi adaptations for ftnright package
\def\LTR@outputdblcol{\if@firstcolumn
  \global\@firstcolumnfalse
  \global\setbox\@leftcolumn\box\@outputbox
  \global\count\footins\@m
  \global\skip\footins\rcol@footinsskip
 \else \preparefootins
  \global\@firstcolumntrue
  \setbox\@outputbox\vbox{\hbox to\textwidth
    {\hbox to\columnwidth
                 {\box\@leftcolumn\hss}%
     \hfil\vrule\@width\columnseprule\hfil
     \hbox to\columnwidth
                 {\box\@outputbox\hss}}}%
  \@combinedblfloats\@outputpage
  \begingroup
```

```
   \@dblfloatplacement\@startdblcolumn
   \@whilesw\if@fcolmade\fi
    {\@outputpage\@startdblcolumn}%
  \endgroup
 \fi}
 \def\RTL@outputdblcol{\if@firstcolumn
  \global\@firstcolumnfalse
  \global\setbox\@leftcolumn\box\@outputbox
  \global\count\footins\@m
  \global\skip\footins\rcol@footinsskip
 \else \preparefootins
  \global\@firstcolumntrue
  \setbox\@outputbox\vbox{\hbox to\textwidth
    {\hskip \columnwidth
     \hfil \vrule width\columnseprule \hfil
    \hbox to\columnwidth
                  {\box\@leftcolumn\hss}%
     \hskip -\textwidth
     \hbox to\columnwidth
                  {\box\@outputbox\hss}
      \hskip \columnsep
      \hskip \columnwidth}}%
  \@combinedblfloats\@outputpage
  \begingroup
   \@dblfloatplacement\@startdblcolumn
   \@whilesw\if@fcolmade\fi
    {\@outputpage\@startdblcolumn}%
  \endgroup
 \fi}
 \let\leftfootnoterule\@empty
 \let\rightfootnoterule\@empty
 \let\textwidthfootnoterule\@empty
 \let\autofootnoterule\@empty
 \let\footnoterule\@empty
 \long\def\@makefntext#1{\parindent 1em
   \noindent\hbox to 2em{}%
   \llap{\@thefnmark\hbox{.}\,\,}#1}
```

7.65 graphicx-xetex-bidi.def

```
 \ProvidesFile{graphicx-xetex-bidi.def}[2012/01/01 v0.4 bidi adaptations for graphicx package
 \def\Grot@box@std#1#2{\ifmmode\else\if@RTL\beginL\fi\fi%
  \Grot@setangle{#1}%
  \setbox\z@\hbox{{\ifmmode\if@RTL\beginR\fi#2\if@RTL\endR\fi\else\if@RTL\beginR\fi#2\if@RTL\
  \Grot@x\z@
  \Grot@y\z@
  \Grot@box\ifmmode\else\if@RTL\endL\fi\fi}
 \long\def\Gscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
  \leavevmode
  \def\Gscale@x{#1}\def\Gscale@y{#2}%
```

```
  \setbox\z@\hbox{{#3}}%
  \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
  \ifdim#2\p@<\z@
    \ht\tw@-#2\dp\z@
    \dp\tw@-#2\ht\z@
  \else
    \ht\tw@#2\ht\z@
    \dp\tw@#2\dp\z@
  \fi
  \ifdim#1\p@<\z@
    \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
  \else
    \wd\tw@#1\wd\z@
    \box\tw@
  \fi\ifmmode\else\if@RTL\endL\fi\fi}
\def\Gin@iii[#1,#2][#3,#4]#5{%
  \begingroup
  \ifmmode\else\if@RTL\beginL\fi\fi
  \Gin@bboxtrue
  \Gin@defaultbp\Gin@llx{#1}%
  \Gin@defaultbp\Gin@lly{#2}%
  \Gin@defaultbp\Gin@urx{#3}%
  \Gin@defaultbp\Gin@ury{#4}%
  \Ginclude@graphics{#5}%
  \ifmmode\else\if@RTL\endL\fi\fi
  \endgroup}
\def\Gin@ii[#1]#2{%
    \def\@tempa{[}\def\@tempb{#2}%
    \ifx\@tempa\@tempb
      \def\@tempa{\Gin@iii[#1][}%
      \expandafter\@tempa
    \else
     \begingroup
       \ifmmode\else\if@RTL\beginL\fi\fi
       \@tempswafalse
       \toks@{\Ginclude@graphics{#2}}%
       \setkeys{Gin}{#1}%
       \Gin@esetsize
       \the\toks@
       \ifmmode\else\if@RTL\endL\fi\fi
     \endgroup
     \fi}
\def\reflectbox{\bidiGscale@box-1[1]}
\long\def\bidiGscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
  \leavevmode
  \def\Gscale@x{#1}\def\Gscale@y{#2}%
  \setbox\z@\hbox{{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\
  \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
  \ifdim#2\p@<\z@
    \ht\tw@-#2\dp\z@
```

```
    \dp\tw@-#2\ht\z@
  \else
    \ht\tw@#2\ht\z@
    \dp\tw@#2\dp\z@
  \fi
  \ifdim#1\p@<\z@
    \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
  \else
    \wd\tw@#1\wd\z@
    \box\tw@
  \fi\ifmmode\else\if@RTL\endL\fi\fi}
\def\scalebox#1{%
  \@ifnextchar[{\bidiGscale@box{#1}}{\bidiGscale@box{#1}[#1]}}
\def\resizebox{%
  \leavevmode
  \@ifstar{\bidiGscale@@box\totalheight}{\bidiGscale@@box\height}}
\def\bidiGscale@@box#1#2#3{%
  \let\@tempa\Gin@exclamation
  \expandafter\def\expandafter\@tempb\expandafter{\string#2}%
  \expandafter\def\expandafter\@tempc\expandafter{\string#3}%
  \ifx\@tempb\@tempa
    \ifx\@tempc\@tempa
      \toks@{\mbox}%
    \else
      \toks@{\bidiGscale@box@dd{#3}#1}%
    \fi
  \else
    \ifx\@tempc\@tempa
      \toks@{\bidiGscale@box@dd{#2}\width}%
    \else
      \toks@{\bidiGscale@box@dddd{#2}\width{#3}#1}%
    \fi
  \fi
  \the\toks@}
\long\def\bidiGscale@box@dd#1#2#3{%
  \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if
    \setlength\@tempdima{#1}%
    \setlength\@tempdimb{#2}%
    \Gscale@div\@tempa\@tempdima\@tempdimb
    \Gscale@box\@tempa[\@tempa]{\box\@tempboxa}%
  \@end@tempboxa}
\long\def\bidiGscale@box@dddd#1#2#3#4#5{%
  \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#5\if@RTL\endR\fi\else\if@RTL\beginR\fi#5\if
    \setlength\@tempdima{#1}%
    \setlength\@tempdimb{#2}%
    \Gscale@div\@tempa\@tempdima\@tempdimb
    \setlength\@tempdima{#3}%
    \setlength\@tempdimb{#4}%
    \Gscale@div\@tempb\@tempdima\@tempdimb
    \ifGin@iso
```

```
      \ifdim\@tempa\p@>\@tempb\p@
        \let\@tempa\@tempb
      \else
        \let\@tempb\@tempa
      \fi
    \fi
    \Gscale@box\@tempa[\@tempb]{\box\@tempboxa}%
  \@end@tempboxa}
```

7.66 geometry-xetex-bidi.def

```
\ProvidesFile{geometry-xetex-bidi.def}[2013/04/01 v0.1 bidi adaptations for geometry package
\renewcommand*{\Gm@vrules@mpi}{%
\if@RTLmain%
        \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
        \llap{\Gm@vrule}\ignorespaces
        \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
        \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}%
    \else%
  \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
  \hskip \textwidth\Gm@vrule\hskip \marginparsep
  \llap{\Gm@vrule}\hfil\Gm@vrule}\fi}%
\renewcommand*{\Gm@vrules@mpii}{%
\if@RTLmain%
  \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
  \hskip \textwidth\Gm@vrule\hskip \marginparsep
  \llap{\Gm@vrule}\hfil\Gm@vrule}%
\else%
  \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
  \llap{\Gm@vrule}\ignorespaces
  \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
  \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}\fi}%

```

7.67 hvfloat-xetex-bidi.def

```
\ProvidesFile{hvfloat-xetex-bidi.def}[2012/04/18 v0.2 bidi adaptations for hvfloat package fo
\def\do@@hvFloat[#1]#2#3{%
\def\hv@shortCap{#1}
\def\hv@longCap{#2}
\def\hv@label{#3}
%\newcommand*{\hvFloat}[5][]{%
% [#1]: keyvalues
% #2: type  figure | table | ...
% #3: float contents
% [#4]: short caption
% #5: caption
% #6: label
% \setDefaults%
% \def\@tempa{#1}%
% \ifx\@tempa\empty\else\setkeys{hvSet}{#1}\fi% set options, only when not empty
```

```
  \def\@tempa{90}%
  \ifx\hvSet@rotAngle\@tempa \setlength{\hvMaxCapWidth}{\textheight}
  \else                      \setlength{\hvMaxCapWidth}{\linewidth}
  \fi
%
% First we save the object in \hvObjectBox
%
  \ifx\hvSet@objectAngle\hv@Zero % rotate the object?
    \savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}
  \else
    \savebox{\hvObjectBox}{%
    \rotatebox{\hvSet@objectAngle}{%
    \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}}
  \fi
  \setlength{\hvObjectWidth}{\wd\hvObjectBox}
%
% Now we save the caption with its defined \hvCapWidth
%
  \ifx\hvSet@capWidth\hv@Width\setlength{\hvCapWidth}{\hvObjectWidth}
  \else
    \ifx\hvSet@capWidth\hv@Height\setlength{\hvCapWidth}{\ht\hvObjectBox}
    \else
      \setlength{\hvCapWidth}{\hvObjectWidth}
      \ifx\hvSet@capPos\hv@Left\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
      \ifx\hvSet@capPos\hv@Right\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
      \ifdim\hvSet@capWidth\columnwidth<\hvMaxCapWidth
\setlength{\hvCapWidth}{\hvSet@capWidth\columnwidth}
      \else
\setlength{\hvCapWidth}{\hvMaxCapWidth}
      \fi
    \fi
  \fi
%
% now we have the object and the caption with the right
% rotated angles saved in boxes
%
  \def\fps@figure{\hvSet@floatPos}
  \ifhv@nonFloat\begingroup% Start the nonfloat part
  \else         \begin{\hv@floatType}% Start the floating environment
  \fi%
  \saveCaptionSkip% we put this space ourselve
  \ifx\hvSet@capAngle\hv@Width % need rotation?
    \sbox{\hvCaptionBox}{%
      \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
        \ifhv@nonFloat%
  \ifhv@onlyText#2%
     \else%
    \ifx\hv@floatType\hv@figure
      \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
    \else
```

```
      \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
    \fi
  \fi
\else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
\fi%
\label{#3}%
      \end{minipage}%
    }%
  \else%
    \sbox{\hvCaptionBox}{%
      \rotatebox{\hvSet@capAngle}{%
      \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
\ifhv@nonFloat%
     \ifhv@onlyText#2%
     \else%
    \ifx\hv@floatType\hv@figure
      \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
    \else
      \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
    \fi
  \fi
\else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
        \fi%
        \label{#3}%
      \end{minipage}%
      }%
    }%
  \fi%
%%
  \restoreCaptionSkip% save old values
  \ifx\hvSet@objectPos\hv@Right\bidi@raggedleft%
  \else%
    \ifx\hvSet@objectPos\hv@Center
      \ifhv@nonFloat\hspace*{\fill}\else\centering\fi%
    \fi%
  \fi%
%
% to rotate object and caption together, we save all in another box
% the caption comes first, if its on the left or the top
%
  \savebox{\@tempboxa}{%
  \ifx\hvSet@capPos\hv@Left  %  caption on left side
\if@RTL%
\ifx\hvSet@capVPos\hv@Center%
\ifhv@fbox
\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
\else
\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
\fi%
\hspace{\hvSet@floatCapSep pt}%
```

```
\ifhv@fbox
\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
\else
\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
\fi%
\else%
\ifx\hvSet@capVPos\hv@Top
\ifhv@fbox
\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
\else
\raisebox{-\height}{\usebox{\hvObjectBox}}%
\fi%
\hspace{\hvSet@floatCapSep pt}%
\ifhv@fbox
\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
\else
\raisebox{-\height}{\usebox{\hvCaptionBox}}%
\fi
\else
\ifhv@fbox
\fbox{\usebox{\hvObjectBox}}%
\else
\usebox{\hvObjectBox}%
\fi
\hspace{\hvSet@floatCapSep pt}%
\ifhv@fbox
\fbox{\usebox{\hvCaptionBox}}%
\else
\usebox{\hvCaptionBox}%
\fi%
\fi%
\fi%
\else% not RTL
    \ifx\hvSet@capVPos\hv@Center%
      \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
      \else     \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
      \fi%
    \hspace{\hvSet@floatCapSep pt}% capfloatsep
    \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
    \else     \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
    \fi%
  \else%
    \ifx\hvSet@capVPos\hv@Top % caption at top
      \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
      \else     \raisebox{-\height}{\usebox{\hvCaptionBox}}%
      \fi
      \hspace{\hvSet@floatCapSep pt}% capfloatsep
      \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
      \else     \raisebox{-\height}{\usebox{\hvObjectBox}}%
      \fi%
```

```
    \else% caption on bottom
      \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}
                \else\usebox{\hvCaptionBox}
      \fi%
      \hspace{\hvSet@floatCapSep pt}%
      \ifhv@fbox\fbox{\usebox{\hvObjectBox}}
      \else     \usebox{\hvObjectBox}
      \fi%
    \fi%
\fi% end of RTL
  \fi%
  \else
\ifx\hvSet@capPos\hv@Top
\ifdim\wd\hvCaptionBox>\wd\hvObjectBox
\begin{minipage}{\wd\hvCaptionBox}
\else
\begin{minipage}{\wd\hvObjectBox}
\fi
\centering
\ifhv@fbox
\fbox{\usebox{\hvCaptionBox}}\\[\hvBelowCaptionSkip]
\fbox{\usebox{\hvObjectBox}}
\else
\usebox{\hvCaptionBox}\\[\hvBelowCaptionSkip]
\usebox{\hvObjectBox}
\fi%
\end{minipage}
\else
\ifx\hvSet@capPos\hv@Bottom
\ifdim\wd\hvCaptionBox>\wd\hvObjectBox
\begin{minipage}{\wd\hvCaptionBox}
\else
\begin{minipage}{\wd\hvObjectBox}
\fi
\centering
\ifhv@fbox
\fbox{\usebox{\hvObjectBox}}\\[\hvAboveCaptionSkip]
\fbox{\usebox{\hvCaptionBox}}
\else
\usebox{\hvObjectBox}\\[\hvAboveCaptionSkip]
\usebox{\hvCaptionBox}
\fi%
\end{minipage}
\else% the last option: put the caption on the right
\if@RTL%
    \ifx\hvSet@capVPos\hv@Center%
      \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
      \else     \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
      \fi%
    \hspace{\hvSet@floatCapSep pt}% capfloatsep
```

```
    \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
    \else     \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
    \fi%
  \else%
    \ifx\hvSet@capVPos\hv@Top % caption at top
      \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
      \else     \raisebox{-\height}{\usebox{\hvCaptionBox}}%
      \fi
      \hspace{\hvSet@floatCapSep pt}% capfloatsep
      \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
      \else     \raisebox{-\height}{\usebox{\hvObjectBox}}%
      \fi%
    \else% caption on bottom
      \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}
                \else\usebox{\hvCaptionBox}
      \fi%
      \hspace{\hvSet@floatCapSep pt}%
      \ifhv@fbox\fbox{\usebox{\hvObjectBox}}
      \else     \usebox{\hvObjectBox}
      \fi%
    \fi%
  \fi%
\else% not RTL
\ifx\hvSet@capVPos\hv@Center%
\ifhv@fbox
\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
\else
\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
\fi%
\hspace{\hvSet@floatCapSep pt}%
\ifhv@fbox
\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
\else
\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
\fi%
\else%
\ifx\hvSet@capVPos\hv@Top
\ifhv@fbox
\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
\else
\raisebox{-\height}{\usebox{\hvObjectBox}}%
\fi%
\hspace{\hvSet@floatCapSep pt}%
\ifhv@fbox
\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
\else
\raisebox{-\height}{\usebox{\hvCaptionBox}}%
\fi
\else
\ifhv@fbox
```

```
\fbox{\usebox{\hvObjectBox}}%
\else
\usebox{\hvObjectBox}%
\fi
\hspace{\hvSet@floatCapSep pt}%
\ifhv@fbox
\fbox{\usebox{\hvCaptionBox}}%
\else
\usebox{\hvCaptionBox}%
\fi%
\fi%
\fi
\fi% end of RTL
\fi
\fi
\fi
}% End savebox Object and caption
%
% now we rotate the object and caption, if needed
%
\ifx\hvSet@rotAngle\hv@Zero
\usebox{\@tempboxa}
\else
\rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}
\fi
\ifhv@nonFloat
\ifx\hvSet@objectPos\hv@Center
\ifhv@nonFloat
\hspace{\fill}
\fi
\fi
\endgroup% End the nonfloat part
\else
\end{\hv@floatType}% End the floating environment
\fi
}
```

7.68 hyperref-xetex-bidi.def

```
\ProvidesFile{hyperref-xetex-bidi.def}[2013/04/08 v0.7 bidi adaptations for hyperref package
\AtBeginDocument{%
\def\contentsline#1#2#3#4{%
  \ifx\\#4\\%
    \csname l@#1\endcsname{#2}{#3}%
  \else
    \ifcase\Hy@linktoc % none
      \csname l@#1\endcsname{#2}{#3}%
    \or % section
      \csname l@#1\endcsname{%
        \beginL\hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend\e
```

```
      }{#3}%
    \or % page
      \csname l@#1\endcsname{{#2}}{%
        \beginL\hyper@linkstart{link}{#4}{#3}\hyper@linkend\endL
      }%
    \else % all
      \csname l@#1\endcsname{%
        \beginL\hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend\e
      }{%
        \beginL\hyper@linkstart{link}{#4}{#3}\hyper@linkend\endL
      }%
    \fi
  \fi
}
\ifHy@hyperfootnotes
   \let\H@@footnotetext\@footnotetext
   \let\HRTL@@RTLfootnotetext\@RTLfootnotetext
   \let\HLTR@@LTRfootnotetext\@LTRfootnotetext
    \def\@xfootnotenext[#1]{%
    \begingroup
      \csname c@\@mpfn\endcsname #1\relax
      \unrestored@protected@xdef\@thefnmark{\thempfn}%
    \endgroup
    \ifx\@footnotetext\@mpfootnotetext
      \expandafter\H@@mpfootnotetext
    \else
      \expandafter\H@@footnotetext
    \fi
  }%
    \def\@xRTLfootnotenext[#1]{%
    \begingroup
      \csname c@\@mpfn\endcsname #1\relax
      \unrestored@protected@xdef\@thefnmark{\thempfn}%
    \endgroup
    \ifx\@RTLfootnotetext\@mpRTLfootnotetext
      \expandafter\HRTL@@mpRTLfootnotetext
    \else
      \expandafter\HRTL@@RTLfootnotetext
    \fi
  }%
    \def\@xLTRfootnotenext[#1]{%
    \begingroup
      \csname c@\@mpfn\endcsname #1\relax
      \unrestored@protected@xdef\@thefnmark{\thempfn}%
    \endgroup
    \ifx\@LTRfootnotetext\@mpLTRfootnotetext
      \expandafter\HLTR@@mpLTRfootnotetext
    \else
      \expandafter\HLTR@@LTRfootnotetext
    \fi
```

```
}%
  \def\@xfootnotemark[#1]{%
  \begingroup
    \c@footnote #1\relax
    \unrestored@protected@xdef\@thefnmark{\thefootnote}%
  \endgroup
  \H@@footnotemark
}%
\let\H@@mpfootnotetext\@mpfootnotetext
\let\HRTL@@mpRTLfootnotetext\@mpRTLfootnotetext
\let\HLTR@@mpLTRfootnotetext\@mpLTRfootnotetext
  \long\def\@mpfootnotetext#1{%
  \H@@mpfootnotetext{%
    \ifHy@nesting
      \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
    \else
      \Hy@raisedlink{%
        \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
      }#1%
    \fi
  }%
}%
\long\def\@mpRTLfootnotetext#1{%
  \HRTL@@mpRTLfootnotetext{%
    \ifHy@nesting
      \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
    \else
      \Hy@raisedlink{%
        \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
      }#1%
    \fi
  }%
}%
  \long\def\@mpLTRfootnotetext#1{%
  \HLTR@@mpLTRfootnotetext{%
    \ifHy@nesting
      \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
    \else
      \Hy@raisedlink{%
        \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
      }#1%
    \fi
  }%
}%
  \long\def\@footnotetext#1{%
  \H@@footnotetext{%
    \ifHy@nesting
      \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
    \else
      \Hy@raisedlink{%
```

```
          \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
        }%
        \let\@currentHlabel\Hy@footnote@currentHlabel
        \let\@currentHref\Hy@footnote@currentHref
        \let\@currentlabelname\@empty
        #1%
      \fi
    }%
  }%
    \long\def\@RTLfootnotetext#1{%
    \HRTL@@RTLfootnotetext{%
      \ifHy@nesting
        \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
      \else
        \Hy@raisedlink{%
          \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
        }%
        \let\@currentHlabel\Hy@footnote@currentHlabel
        \let\@currentHref\Hy@footnote@currentHref
        \let\@currentlabelname\@empty
        #1%
      \fi
    }%
  }%
    \long\def\@LTRfootnotetext#1{%
    \HLTR@@LTRfootnotetext{%
      \ifHy@nesting
        \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
      \else
        \Hy@raisedlink{%
          \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
        }%
        \let\@currentHlabel\Hy@footnote@currentHlabel
        \let\@currentHref\Hy@footnote@currentHref
        \let\@currentlabelname\@empty
        #1%
      \fi
    }%
  }%
  \def\@footnotemark{%
    \leavevmode
    \ifhmode\edef\@x@sf{\the\spacefactor}\nobreak\fi
    \stepcounter{Hfootnote}%
    \global\let\Hy@saved@currentHlabel\@currentHlabel
    \global\let\Hy@saved@currentHref\@currentHref
    \hyper@makecurrent{Hfootnote}%
    \global\let\Hy@footnote@currentHlabel\@currentHlabel
    \global\let\Hy@footnote@currentHref\@currentHref
    \global\let\@currentHlabel\Hy@saved@currentHlabel
    \global\let\@currentHref\Hy@saved@currentHref
```

```
    \beginL\hyper@linkstart{link}{\Hy@footnote@currentHref}%
    \@makefnmark
    \hyper@linkend\endL
    \ifhmode\spacefactor\@x@sf\fi
    \relax
  }%
  \let\HyOrg@maketitle\maketitle
  \def\maketitle{%
    \let\Hy@saved@footnotemark\@footnotemark
    \let\Hy@saved@footnotetext\@footnotetext
    \let\HyRTL@saved@RTLfootnotetext\@RTLfootnotetext
    \let\HyLTR@saved@LTRfootnotetext\@LTRfootnotetext
    \let\@footnotemark\H@@footnotemark
    \let\@footnotetext\H@@footnotetext
    \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
    \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
    \@ifnextchar[\Hy@maketitle@optarg{% ]
      \HyOrg@maketitle
      \Hy@maketitle@end
    }%
  }%
  \def\Hy@maketitle@optarg[#1]{%
    \HyOrg@maketitle[{#1}]%
    \Hy@maketitle@end
  }%
  \def\Hy@maketitle@end{%
    \ifx\@footnotemark\H@@footnotemark
      \let\@footnotemark\Hy@saved@footnotemark
    \fi
    \ifx\@footnotetext\H@@footnotetext
      \let\@footnotetext\Hy@saved@footnotetext
    \fi
    \ifx\@RTLfootnotetext\HRTL@@RTLfootnotetext
      \let\@RTLfootnotetext\HyRTL@saved@RTLfootnotetext
    \fi
    \ifx\@LTRfootnotetext\HLTR@@LTRfootnotetext
      \let\@LTRfootnotetext\HyLTR@saved@LTRfootnotetext
    \fi
  }%
  \def\realfootnote{%
    \@ifnextchar[\@xfootnote{%
      \stepcounter{\@mpfn}%
      \protected@xdef\@thefnmark{\thempfn}%
      \H@@footnotemark\H@@footnotetext
    }%
  }%
\fi
\def\hyper@link#1#2#3{%
  \ifmmode\else\beginL\fi\hyper@linkstart{#1}{#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\
}
```

```
\def\url@#1{\beginL\hyper@linkurl{\Hurl{#1}}{#1}\endL}
\def\hyper@natlinkstart#1{%
  \Hy@backout{#1}%
  \beginL\hyper@linkstart{cite}{cite.#1}\if@RTL\beginR\fi%
  \def\hyper@nat@current{#1}%
}
\def\hyper@natlinkend{%
  \if@RTL\endR\fi\hyper@linkend\endL
}
\def\hyper@natlinkbreak#1#2{%
  \if@RTL\endR\fi\hyper@linkend\endL#1\beginL\hyper@linkstart{cite}{cite.#2}\if@RTL\beginR\fi
}%
}
\begingroup
  \catcode`\$=6 %
  \catcode`\#=12 %
  \gdef\href@$1{\expandafter\href@split$1##\\}%
  \gdef\href@split$1#$2#$3\\$4{%
    \beginL\hyper@@link{$1}{$2}{\if@RTL\beginR\fi$4\if@RTL\endR\fi}\endL%
    \endgroup
  }%
\endgroup
\pdfstringdefDisableCommands{%
\let\LRE\@firstofone
\let\LR\@firstofone
\let\RLE\@firstofone
\let\RL\@firstofone
\def\XeTeX{Xe\TeX}
\def\XeLaTeX{Xe\LaTeX}
}
```

7.69 leqno-xetex-bidi.def

```
\ProvidesFile{leqno-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for leqno tag for XeTeX
\renewcommand\@eqnnum{\hb@xt@.01\p@{}%
                      \rlap{
                        \hskip -\displaywidth{\normalfont\normalcolor\if@RTL\beginR\fi(\theeq
```

7.70 letter-xetex-bidi.def

```
\ProvidesFile{letter-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for standard letter cla
\renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
  \thispagestyle{firstpage}%
    {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
  \else  % home address
    \thispagestyle{empty}%
    {\if@RTL\raggedright\else\raggedleft\fi\if@RTL\begin{tabular}{r@{}}\else\begin{tabular}{l
      \fromaddress \\*[2\parskip]%
      \@date \end{tabular}\par}%
  \fi
  \vspace{2\parskip}%
```

```
  {\if@RTL\raggedleft\else\raggedright\fi \toname \\ \toaddress \par}%
  \vspace{2\parskip}%
  #1\par\nobreak}
\renewcommand\left@footnoterule{%
  \kern-\p@
  \hrule \@width .4\columnwidth
  \kern .6\p@}
\renewcommand\right@footnoterule{%
  \hbox to \columnwidth
  {\beginR \vbox{%
  \kern-\p@
  \hrule \@width .4\columnwidth
  \kern .6\p@}\hfil\endR}}
```

7.71 lettrine-xetex-bidi.def

```
\ProvidesFile{lettrine-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for lettrine package
\def\@lettrine[#1]#2#3{%
  \setcounter{L@lines}{\theDefaultLines}%
  \renewcommand*{\L@hang}{\DefaultLhang}%
  \renewcommand*{\L@oversize}{\DefaultLoversize}%
  \renewcommand*{\L@raise}{\DefaultLraise}%
  \renewcommand*{\L@ante}{}%
  \setlength{\L@Findent}{\DefaultFindent}%
  \setlength{\L@Nindent}{\DefaultNindent}%
  \setlength{\L@slope}{\DefaultSlope}%
  \ifLettrineImage\L@imagetrue\else\L@imagefalse\fi
  \if\DefaultOptionsFile\relax
  \else
    \begingroup
    \InputIfFileExists{\DefaultOptionsFile}%
      {}%
      {\PackageWarning{lettrine.sty}%
         {File \DefaultOptionsFile\space not found}%
      }%
    \def\color##1##{\l@color{##1}}%
    \let\l@color\@gobbletwo
    \def\textcolor##1##{\l@textcolor{##1}}%
    \def\l@textcolor##1##2##3{##3}%
    \expandafter\ifx\csname l@#2-keys\endcsname\relax
                  \gdef\l@LOKeys{}%
                \else
                  \xdef\l@LOKeys{\csname l@#2-keys\endcsname}%
                \fi
    \endgroup
    \def\KV@prefix{KV@L@}%
    \let\@tempc\relax
    \expandafter\KV@do\l@LOKeys,\relax,
    \sbox{\L@lbox}{\LettrineFont #2}%
    \settowidth{\LettrineWidth}{\usebox{\L@lbox}}%
```

```
    \def\KV@prefix{KV@L@}%
    \let\@tempc\relax
    \expandafter\KV@do\l@LOKeys,\relax,
  \fi
  \setkeys{L}{#1}%
  \ifL@image
     \sbox{\L@lbox}{\LettrineFontEPS{#2}}%
  \else
     \sbox{\L@lbox}{\LettrineFont #2}%
  \fi
  \sbox{\L@tbox}{\LettrineTextFont{#3}}%
   \@tempdima=\baselineskip
   \ifnum\theL@lines=1
     \setlength{\L@first}{\ht\L@lbox}%
     \addtolength{\L@first}{-\ht\L@tbox}%
     \setlength{\L@lraise}{\z@}%
   \else
     \setlength{\L@first}{-\theL@lines\@tempdima}%
     \addtolength{\L@first}{\@tempdima}%
     \sbox{\@tempboxa}{\LettrineTextFont x}%
     \addtolength{\L@first}{-\ht\@tempboxa}%
     \setlength{\L@lraise}{-\L@raise\L@first}%
     \addtolength{\L@first}{\L@lraise}%
     \addtolength{\L@first}{\ht\L@lbox}%
     \addtolength{\L@lraise}{-\theL@lines\@tempdima}%
     \addtolength{\L@lraise}{\@tempdima}%
   \fi
   \par
   \ifdim\L@first>0.2\p@\vskip\L@first\fi
  \setlength{\L@Pindent}{\wd\L@lbox}%
  \addtolength{\L@Pindent}{-\L@hang\wd\L@lbox}%
  \settowidth{\L@first}{\L@ante}%
  \addtolength{\L@Pindent}{\L@first}%
  \addtolength{\L@Pindent}{\L@Findent}%
  \setlength{\L@first}{\linewidth}%
  \addtolength{\L@first}{-\L@Pindent}%
  \addtolength{\L@Nindent}{\L@Pindent}%
  \setlength{\L@next}{\linewidth}%
  \addtolength{\L@next}{-\L@Nindent}%
  \addtolength{\L@Pindent}{\rightmargin}%
  \addtolength{\L@Nindent}{\rightmargin}%
  \addtocounter{L@lines}{1}%
  \if@RTL\def\L@parshape{\c@L@lines 0pt \the\L@first}\else\def\L@parshape{\c@L@lines \the\L@P
  \@tempcnta=\tw@
  \@whilenum \@tempcnta<\c@L@lines\do{%
     \if@RTL\edef\L@parshape{\L@parshape 0pt \the\L@next}\else\edef\L@parshape{\L@parshape \t
     \addtolength{\L@Nindent}{\L@slope}%
     \addtolength{\L@next}{-\L@slope}%
     \advance\@tempcnta\@ne}%
  \if@RTL \edef\L@parshape{\L@parshape 0pt \the\linewidth}\else\edef\L@parshape{\L@parshape \
```

```
  \noindent
  \parshape=\L@parshape\relax
  \smash{\llap{\mbox{\L@ante}\raisebox{\L@lraise}{\usebox{\L@lbox}}%
          \hskip \the\L@Findent}}%
  \usebox{\L@tbox}}
```

7.72 listings-xetex-bidi.def

```
\ProvidesFile{listings-xetex-bidi.def}[2010/07/25 v0.5 bidi adaptations for listings package
\AtBeginDocument{
  \@ifundefined{thechapter}{\let\lst@ifnumberbychapter\iffalse}{}
  \lst@ifnumberbychapter
      \gdef\thelstlisting%
           {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@lstlisting}
  \else
      \gdef\thelstlisting{\@arabic\c@lstlisting}
  \fi}
```

7.73 loadingorder-xetex-bidi.def

```
\ProvidesFile{loadingorder-xetex-bidi.def}[2013/05/22 v0.95 making sure that bidi is the last
\bidi@isloaded{amsmath}
\bidi@isloaded{amstext}
\bidi@isloaded{amsthm}
\bidi@isloaded{breqn}
\bidi@isloaded{cals}
\bidi@isloaded{caption}
\bidi@isloaded{crop}
\bidi@isloaded{cuted}
\bidi@isloaded{cutwin}
\bidi@isloaded{color}
\bidi@isloaded{dblfnote}
\bidi@isloaded{xcolor}
\bidi@isloaded{colortbl}
\bidi@isloaded{float}
\bidi@isloaded{floatrow}
\bidi@isloaded{flowfram}
\bidi@isloaded{framed}
\bidi@isloaded{ftnright}
\bidi@isloaded{xltxtra}
\bidi@isloaded{xunicode}
\bidi@isloaded{wrapfig}
\bidi@isloaded{graphicx}
\bidi@isloaded{geometry}
\bidi@isloaded{hvfloat}
\bidi@isloaded{mdframed}
\bidi@isloaded{midfloat}
\bidi@isloaded{ntheorem}
\bidi@isloaded{ntheorem-hyper}
\bidi@isloaded{hyperref}
\bidi@isloaded{fancybox}
```

```
\bidi@isloaded{fancyhdr}
\bidi@isloaded{fix2col}
\bidi@isloaded{draftwatermark}
\bidi@isloaded{empheq}
\bidi@isloaded{pdfpages}
\bidi@isloaded{listings}
\bidi@isloaded{lettrine}
\bidi@isloaded{pstricks}
\bidi@isloaded{pgf}
\bidi@isloaded{picinpar}
\bidi@isloaded{quotchap}
\bidi@isloaded{tikz}
\bidi@isloaded{titlesec}
\bidi@isloaded{titletoc}
\bidi@isloaded{array}
\bidi@isloaded{stabular}
\bidi@isloaded{subfig}
\bidi@isloaded{subfigure}
\bidi@isloaded{supertabular}
\bidi@isloaded{xtab}
\bidi@isloaded{longtable}
\bidi@isloaded{arydshln}
\bidi@isloaded{multicol}
\bidi@isloaded{multienum}
\bidi@isloaded{minitoc}
\bidi@isloaded{natbib}
\bidi@isloaded{newfloat}
\bidi@isloaded{ragged2e}
\bidi@isloaded{rotating}
\bidi@isloaded{tabls}
\bidi@isloaded{tabulary}
\bidi@isloaded{tocstyle}
\bidi@isloaded{tocbibind}
\bidi@isloaded{fontspec}
\bidi@isloaded{arabxetex}
\bidi@isloaded{polyglossia}
\bidi@isloaded{fancyvrb}
\AtBeginDocument{
  \if@bidi@amsmathloaded@\else
    \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amsmath after bidi packa
  \fi%
    \if@bidi@amstextloaded@\else
    \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amstext after bidi packa
  \fi%
  \if@bidi@amsthmloaded@\else
    \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amsthm after bidi packag
  \fi%
  \if@bidi@breqnloaded@\else
    \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package breqn after bidi package
  \fi%
```

```
  \if@bidi@calsloaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cals after bidi package.
\fi%
\if@bidi@captionloaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package caption after bidi packa
\fi%
\if@bidi@croploaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package crop after bidi package.
\fi%
\if@bidi@colorloaded@\else
\@ifpackageloaded{hyperref}{}{%
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package color after bidi package
\fi%
\if@bidi@cutwinloaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cutwin after bidi packag
\fi%
  \if@bidi@cutedloaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cuted after bidi package
\fi%
\if@bidi@dblfnoteloaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package dblfnote after bidi pack
\fi%
\if@bidi@xcolorloaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xcolor after bidi packag
\fi%
\if@bidi@colortblloaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package colortbl after bidi pack
\fi%
\if@bidi@floatloaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package float after bidi package
\fi%
  \if@bidi@floatrowloaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package floatrow after bidi pack
\fi%
\if@bidi@flowframloaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package flowfram after bidi pack
\fi%
\if@bidi@framedloaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package framed after bidi packag
\fi%
  \if@bidi@ftnrightloaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ftnright after bidi pack
\fi%
\if@bidi@xltxtraloaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xltxtra after bidi packa
\fi%
\if@bidi@xunicodeloaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xunicode after bidi pack
\fi%
\if@bidi@wrapfigloaded@\else
```

```
10788   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package wrapfig after bidi packa
10789 \fi%
10790 \if@bidi@graphicxloaded@\else
10791   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package graphicx after bidi pack
10792 \fi%
10793   \if@bidi@geometryloaded@\else
10794   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package geometry after bidi pack
10795 \fi%
10796 \if@bidi@hvfloatloaded@\else
10797   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package hvfloat after bidi packa
10798 \fi%
10799     \if@bidi@mdframedloaded@\else
10800   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package mdframed after bidi pack
10801 \fi%
10802       \if@bidi@midfloatloaded@\else
10803   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package midfloat after bidi pack
10804 \fi%
10805   \if@bidi@ntheoremloaded@\else
10806   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ntheorem after bidi pack
10807 \fi%
10808 \if@bidi@hyperrefloaded@\else
10809   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package hyperref after bidi pack
10810 \fi%
10811   \if@bidi@fancyboxloaded@\else
10812   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancybox after bidi pack
10813 \fi%
10814 \if@bidi@fancyhdrloaded@\else
10815   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancyhdr after bidi pack
10816 \fi%
10817 \if@bidi@draftwatermarkloaded@\else
10818   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package draftwatermark after bid
10819 \fi%
10820 \if@bidi@empheqloaded@\else
10821   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package empheq after bidi packag
10822 \fi%
10823 \if@bidi@pdfpagesloaded@\else
10824   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pdfpages after bidi pack
10825 \fi%
10826 \if@bidi@lettrineloaded@\else
10827   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package lettrine after bidi pack
10828 \fi%
10829 \if@bidi@listingsloaded@\else
10830   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package listings after bidi pack
10831 \fi%
10832 \if@bidi@pstricksloaded@\else
10833   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pstricks after bidi pack
10834 \fi%
10835 \if@bidi@pgfloaded@\else
10836   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pgf after bidi package.
10837 \fi%
```

```
\if@bidi@picinparloaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package picinpar after bidi pack
\fi%
\if@bidi@quotchaploaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package quotchap after bidi pack
\fi%
\if@bidi@tikzloaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tikz after bidi package.
\fi%
\if@bidi@titlesecloaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package titlesec after bidi pack
\fi%
\if@bidi@titletocloaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package titletoc after bidi pack
\fi%
\if@bidi@arrayloaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package array after bidi package
\fi%
\if@bidi@stabularloaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package stabular after bidi pack
\fi%
\if@bidi@subfigloaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package subfig after bidi packag
\fi%
\if@bidi@subfigureloaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package subfigure after bidi pac
\fi%
\if@bidi@supertabularloaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package supertabular after bidi
\fi%
\if@bidi@xtabloaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xtab after bidi package.
\fi%
\if@bidi@longtableloaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package longtable after bidi pac
\fi%
\if@bidi@arydshlnloaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package arydshln after bidi pack
\fi%
\if@bidi@multicolloaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package multicol after bidi pack
\fi%
\if@bidi@multienumloaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package multienum after bidi pac
\fi%
\if@bidi@minitocloaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package minitoc after bidi packa
\fi%
\if@bidi@natbibloaded@\else
  \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package natbib after bidi packag
```

```
  \fi%
    \if@bidi@newfloatloaded@\else
    \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package newfloat after bidi pack
  \fi%
  \csname if@bidi@ragged2eloaded@\endcsname\else
    \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ragged2e after bidi pack
  \fi%
    \if@bidi@rotatingloaded@\else
    \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package rotating after bidi pack
  \fi%
  \if@bidi@tablsloaded@\else
    \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tabls after bidi package
  \fi%
  \if@bidi@tabularyloaded@\else
    \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tabulary after bidi pack
  \fi%
  \if@bidi@tocstyleloaded@\else
    \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tocstyle after bidi pack
  \fi%
  \if@bidi@tocbibindloaded@\else
    \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tocbibind after bidi pac
  \fi%
  \if@bidi@fontspecloaded@\else
    \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fontspec after bidi pack
  \fi%
  \if@bidi@arabxetexloaded@\else
    \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package arabxetex after bidi pac
  \fi%
  \if@bidi@polyglossialoaded@\else
    \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package polyglossia after bidi p
  \fi%
  \if@bidi@fancyvrbloaded@\else
    \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancyvrb after bidi pack
  \fi%
}
```

7.74 longtable-xetex-bidi.def

```
\ProvidesFile{longtable-xetex-bidi.def}[2013/04/01 v0.3 bidi adaptations for longtable packag
\def\LT@array[#1]#2{%
  \refstepcounter{table}\stepcounter{LT@tables}%
  \if l#1%
    \if@RTLtab\LTleft\fill \LTright\z@\else\LTleft\z@ \LTright\fill\fi
  \else\if r#1%
    \if@RTLtab\LTleft\z@ \LTright\fill\else\LTleft\fill \LTright\z@\fi
  \else\if c#1%
    \LTleft\fill \LTright\fill
  \fi\fi\fi
  \let\LT@mcol\multicolumn
  \let\LT@@tabarray\@tabarray
```

```
  \let\LT@@hl\hline
  \def\@tabarray{%
    \let\hline\LT@@hl
    \LT@@tabarray}%
  \let\\\LT@tabularcr\let\tabularnewline\\%
  \def\newpage{\noalign{\break}}%
  \def\pagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk-}4}%
  \def\nopagebreak{\noalign{\ifnum`}=0\fi\@testopt\LT@no@pgbk4}%
  \let\hline\LT@hline \let\kill\LT@kill\let\caption\LT@caption
  \@tempdima\ht\strutbox
  \let\@endpbox\LT@endpbox
  \ifx\extrarowheight\@undefined
    \let\@acol\@tabacol
    \let\@classz\@tabclassz \let\@classiv\@tabclassiv
    \def\@startpbox{\vtop\LT@startpbox}%
    \let\@@startpbox\@startpbox
    \let\@@endpbox\@endpbox
    \let\LT@LL@FM@cr\@tabularcr
  \else
    \advance\@tempdima\extrarowheight
    \col@sep\tabcolsep
    \let\@startpbox\LT@startpbox\let\LT@LL@FM@cr\@arraycr
  \fi
  \setbox\@arstrutbox\hbox{\vrule
    \@height \arraystretch \@tempdima
    \@depth \arraystretch \dp \strutbox
    \@width \z@}%
  \let\@sharp##\let\protect\relax
   \begingroup
    \@mkpream{#2}%
    \xdef\LT@bchunk{%
       \global\advance\c@LT@chunks\@ne
       \global\LT@rows\z@\setbox\z@\vbox\bgroup
       \LT@setprevdepth
       \tabskip\LTleft \noexpand\halign to\hsize\bgroup
      \tabskip\z@ \@arstrut \@preamble \tabskip\LTright \cr}%
  \endgroup
  \expandafter\LT@nofcols\LT@bchunk&\LT@nofcols
  \LT@make@row
  \m@th\let\par\@empty
  \everycr{}\lineskip\z@\baselineskip\z@
  \LT@bchunk}
\def\LT@makecaption#1#2#3{%
  \LT@mcol\LT@cols c{\hbox to\z@{\hss\parbox[t]\LTcapwidth{%
    \sbox\@tempboxa{\if@RTL\beginR\fi#1{#2: }#3\if@RTL\endR\fi}%
    \ifdim\wd\@tempboxa>\hsize
      #1{#2: }#3%
    \else
      \hbox to\hsize{\hfil\box\@tempboxa\hfil}%
    \fi
```

```
    \endgraf\vskip\baselineskip}%
  \hss}}}
\def\LT@startpbox#1{%
  \bgroup
    \let\@footnotetext\LT@p@ftntext
    \let\@LTRfootnotetext\LT@p@LTRftntext
    \let\@RTLfootnotetext\LT@p@RTLftntext
    \setlength\hsize{#1}%
    \@arrayparboxrestore
    \vrule \@height \ht\@arstrutbox \@width \z@}
\def\LT@p@LTRftntext#1{%
  \edef\@tempa{\the\LT@p@ftn\noexpand\LTRfootnotetext[\the\c@footnote]}%
  \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
\def\LT@p@RTLftntext#1{%
  \edef\@tempa{\the\LT@p@ftn\noexpand\RTLfootnotetext[\the\c@footnote]}%
  \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
```

7.75 mdframed-xetex-bidi.def

```
\ProvidesFile{mdframed-xetex-bidi.def}[2013/09/22 v0.4 bidi adaptations for mdframed package
\newif\if@bidi@mdf@RTL
\def\mdf@lrbox#1{%
  \mdf@patchamsthm%patch amsthm
   \if@RTL\@bidi@mdf@RTLtrue\fi%
   \@RTLfalse%
 \setbox#1\vbox\bgroup%
   \color@begingroup%
    \if@bidi@mdf@RTL\@RTLtrue\fi%
     \mdf@horizontalmargin@equation%
     \columnwidth=\hsize%
     \textwidth=\hsize%
     \let\if@nobreak\iffalse%
     \let\if@noskipsec\iffalse%
     \let\par\@@par%
     \let\-\@dischyph%
     \let\'\@acci\let\`\@accii\let\=\@acciii%
     \parindent\z@ \parskip\z@skip%
     \linewidth\hsize%
     \@totalleftmargin\z@%
     \leftskip\z@skip \rightskip\z@skip \@rightskip\z@skip%
     \parfillskip\@flushglue \lineskip\normallineskip%
     \baselineskip\normalbaselineskip%
%%  \sloppy%
     \let\\\@normalcr%
     \mdf@par@local%New feature to restore parskip/parindent local in save box
     \ifbool{mdf@suppressfirstparskip}{\vspace*{-\parskip}}{}%
     \@afterindentfalse%
    %\@afterheading%
}
\renewrobustcmd\mdfframedtitleenv[1]{%
```

```
    \mdf@lrbox{\mdf@frametitlebox}%
     \mdf@frametitlealignment%
       \leavevmode{\color{\mdf@frametitlefontcolor}%
           \normalfont\mdf@frametitlefont{#1}
       \ifbool{mdf@ignorelastdescenders}%
         {%
          \par\strut\par
          \unskip\unskip\setbox0=\lastbox
          \vspace*{\dimexpr\ht\strutbox-\baselineskip\relax}%
         }{}}%
    \par\unskip\ifvmode\nointerlineskip\hrule \@height\z@ \@width\hsize\fi%%
    \endmdf@lrbox\relax%
   \mdf@ignorevbadness%
   \setbox\mdf@frametitlebox=\vbox{\unvbox\mdf@frametitlebox}%
   \mdfframetitleboxwidth=\wd\mdf@frametitlebox\relax%
   \mdfframetitleboxheight=\ht\mdf@frametitlebox\relax%
   \mdfframetitleboxdepth=\dp\mdf@frametitlebox\relax%
   \mdfframetitleboxtotalheight=\dimexpr
                                  \ht\mdf@frametitlebox
                                  +\dp\mdf@frametitlebox%
                                  +\mdf@frametitleaboveskip@length
                                  +\mdf@frametitlebelowskip@length
                                \relax%
}

\renewrobustcmd*\mdf@footnoteoutput{%
     \ifvoid\@mpfootins\else%
          \nobreak%
          \vskip\mdf@footenotedistance@length%
          \normalcolor%
          \bidi@mpfootnoterule%
          \unvbox\@mpfootins%
     \fi%
}


\renewrobustcmd*\mdf@footnoteinput{%
   \def\@mpfn{mpfootnote}%
   \def\thempfn{\thempfootnote}%
   \c@mpfootnote\z@%
   \let\@footnotetext\@mpfootnotetext%
    \let\@LTRfootnotetext\@mpLTRfootnotetext%
    \let\@RTLfootnotetext\@mpRTLfootnotetext%
}
```

7.76 memoir-xetex-bidi.def

```
\ProvidesFile{memoir-xetex-bidi.def}[2010/07/25 v0.5 bidi adaptations for memoir class for Xe
\renewcommand{\keepthetitle}{%
  \@bsmtitlempty
```

```
  \global\let\thanks\relax
  \global\let\LTRthanks\relax
  \global\let\RTLthanks\relax
  \global\let\and\relax
  \global\let\andnext\relax
  \global\let\@thanks\@empty
  \global\let\@title\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty}
\renewcommand{\maketitle}{\par
  \begingroup
    \@bsmarkseries
    \def\@makefnmark{\@textsuperscript{%
       \normalfont\@bsthanksheadpre \tamark \@bsthanksheadpost}}%
    \long\def\@makefntext##1{\makethanksmark ##1}
    \if@twocolumn
      \ifnum \col@number=\@ne
        \@maketitle
      \else
        \twocolumn[\@maketitle]%
      \fi
    \else
      \ifdim\pagetotal>\z@
        \newpage
      \fi
      \global\@topnum\z@
      \@maketitle
    \fi
    \thispagestyle{title}\@thanks
  \endgroup
  \@bscontmark  %  \setcounter{footnote}{0}%
  }
\renewcommand*{\memRTLleftskip}{\if@RTL\rightskip\else\leftskip\fi}
\renewcommand*{\memRTLrightskip}{\if@RTL\leftskip\else\rightskip\fi}
\renewcommand*{\memRTLvleftskip}{\if@RTL\vrightskip\else\vleftskip\fi}
\renewcommand*{\memRTLvrightskip}{\if@RTL\vleftskip\else\vrightskip\fi}
\renewcommand*{\memRTLraggedright}{\if@RTL\raggedleft\else\raggedright\fi}
\renewcommand*{\memRTLraggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
\renewcommand*{\thesection}{\thechapter\@SepMark\@arabic\c@section}
\renewcommand*{\thesubsection}{%
              \thesection\@SepMark\@arabic\c@subsection}
\renewcommand*{\thesubsubsection}{%
              \thesubsection\@SepMark\@arabic\c@subsubsection}
\renewcommand*{\theparagraph}{%
              \thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand*{\thesubparagraph}{%
              \theparagraph\@SepMark\@arabic\c@subparagraph}
\renewcommand{\setthesection}{\thechapter\@SepMark\Alph{section}}
\renewcommand{\theequation}{%
  \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
```

```
\renewcommand{\thefigure}{\thechapter\@SepMark\@arabic\c@figure}
\renewcommand{\thetable}{\thechapter\@SepMark\@arabic\c@table}
\ifartopt
  \chapterstyle{article}
  \counterwithout{figure}{chapter}
  \counterwithout{table}{chapter}
  \counterwithout{footnote}{chapter}
  \counterwithout{equation}{chapter}
  \renewcommand{\chaptername}{}
  \renewcommand{\maketitlehookb}{%
    \vskip -1.5\topsep\vskip -1.5\partopsep}
  \renewcommand{\maketitlehookc}{%
    \vskip -1.5\topsep\vskip -1.5\partopsep}
\fi
\long\def\@makecaption#1#2{\let\@memtempa\relax
  \ifdim\prevdepth>-99\p@ \vskip\abovecaptionskip
  \else \def\@memtempa{\vbox to\topskip{}}\fi
  \let\@contfnote\footnote \renewcommand{\footnote}[2][]{}
  \let\@contfmark\footnotemark \renewcommand{\footnotemark}[1][]{}
  \sbox\@tempboxa{\@contnfont #1\@contdelim \@conttfont #2\@contfinal}
  \let\footnote\@contfnote
  \let\footnotemark\@contfmark
  \ifdim\wd\@tempboxa<\linewidth \centering \fi
  \if@contcw
    \centering
    \parbox{\@contcwidth}{%
    \ifdim\wd\@tempboxa<\@contcwidth \centering \fi
  \fi
  \ifdim\wd\@tempboxa<\linewidth
    \@contpre
    {\@contnfont #1\@contdelim}\@memtempa
    {\@contcshortstyle \@conttfont #2\@contfinal\par}
  \else
    \if@conthang
      \sbox\@tempboxa{\@contnfont #1\@contdelim}
      \@contpre%
      {\@contcstyle\hangindent=\wd\@tempboxa
       \noindent\box\@tempboxa\@memtempa \@conttfont #2\@contfinal\par}
    \else
      \if@contindent
        \@contpre%
        {\@contnfont #1\@contdelim}\@memtempa
        {\@contcstyle\hangindent=\@contindw
                     \hangafter=\@ne\@conttfont #2\@contfinal\par}% <- v1.4
      \else
        \@contpre%
        {\@contnfont #1\@contdelim}\@memtempa
        {\@contcstyle \@conttfont #2\@contfinal\par}
      \fi
    \fi
```

```
  \fi
  \@contpost
  \if@contcw
    \par
    }  % end of the \parbox
  \fi
  \vskip\belowcaptionskip}
\@ifpackageloaded{caption}{%
\AtBeginPackage{caption}{
\ClassWarningNoLine{memoir}{%
  You are using the caption package with the memoir \MessageBreak
  class. This may cause unexpected or inconsistent \MessageBreak
  results if you use any of memoir's captioning facilities}

\long\def\@makecaption##1##2{%
  \vskip\abovecaptionskip
  \sbox\@tempboxa{\if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi}%
  \ifdim \wd\@tempboxa >\hsize
    \if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi\par
  \else
    \global \@minipagefalse
    \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
  \fi
  \vskip\belowcaptionskip}

\def\caption{%
   \ifx\@captype\@undefined
     \@latex@error{\noexpand\caption outside float}\@ehd
     \expandafter\@gobble
   \else
     \refstepcounter\@captype
     \expandafter\@firstofone
   \fi
   {\@dblarg{\@caption\@captype}}%
}

\long\def\@caption##1[##2]##3{%
  \par
  \addcontentsline{\csname ext@##1\endcsname}{##1}%
    {\protect\numberline{\csname the##1\endcsname}{\ignorespaces ##2}}%
  \begingroup
    \@parboxrestore
    \if@minipage
      \@setminipage
    \fi
    \normalsize
    \@makecaption{\csname fnum@##1\endcsname}{\ignorespaces ##3}\par
  \endgroup}
}}{}
\renewenvironment{thebibliography}[1]{%
```

```
  \bibsection
  \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
  \begin{bibitemlist}{#1}}{\end{bibitemlist}\postbibhook}
```

7.77 midfloat-xetex-bidi.def

```
\ProvidesFile{midfloat-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for midfloat package
\def\RTL@outputdblcol{%
  \if@firstcolumn
    \global \@firstcolumnfalse
    \global \setbox\@leftcolumn \box\@outputbox
    \global\c@colht\@colht\global\c@addvipersep\z@
    \ifnum\juo@sk>0
        \remove@strip\juo@sar
        \global\@colht\the\juo@pr
        \ifdim\right@cor>\z@
                \global\advance\@colht by\right@cor
        \fi
        \global\advance\@colht by\cor@height
        \global\cor@height=0pt
    \fi
    \global \setbox\@rightcolumn \vbox{}%
  \else
    \ifdim\c@colht>\@colht
            \@tempdima\@colht
            \ifdim\@colht>\z@
            \global\setbox\@rightcolumn \vbox{%
                        \unvbox\@rightcolumn
                        \vbox to\@tempdima{%
                                \vskip\c@addvipersep\unvbox\@outputbox}%
                        \vskip\stripsep
                        \vrule height\the\juo@ht width 0pt depth 0pt
                        \vskip\stripsep
                        }%
            \global\c@addvipersep\m@addvipersep
            \else
            \global\setbox\@rightcolumn \vbox{%
                        \unvbox\@rightcolumn
                        \vrule height\the\juo@ht width 0pt depth 0pt
                        \vskip\stripsep
                        }%
            \fi
            \ifnum\juo@sk>0
                \remove@strip\juo@sar
                \global\@colht\the\juo@pr
                \global\advance\@colht by -\ht\@rightcolumn
                \global\advance\@colht by\cor@height
                \global\cor@height=0pt
            \else
                \global\advance\c@colht by-\ht\@rightcolumn
```

```
                \global\@colht\c@colht
            \fi
   \else
   \global\@firstcolumntrue
    \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
                        \unvbox\@rightcolumn
                        \vskip\c@addvipersep
                        \unvbox\@outputbox
                        }%
    \setbox\@outputbox \vbox {%
                         \hb@xt@\textwidth {%
                          \hskip \columnwidth
                          \hfil
                           \vrule \@width\columnseprule
                           \hfil
                           \hb@xt@\columnwidth {%
                             \box\@leftcolumn \hss}%
                           \hskip-\textwidth
                           \hb@xt@\columnwidth {%
                             \box\@outputbox \hss}%
                           \hskip\columnwidth
                           \hskip\columnsep}%
                              }%
    \@combinedblfloats
    \@outputpage
    \begingroup
      \@dblfloatplacement
      \@startdblcolumn
      \@whilesw\if@fcolmade \fi
        {\@outputpage
         \@startdblcolumn}%
    \endgroup
    \global\juo@sk=0\global\juo@sar={}%
    \global\cor@height\z@\global\c@addvipersep\z@
    \fi
  \fi
}


\def\LTR@outputdblcol{%
  \if@firstcolumn
    \global \@firstcolumnfalse
    \global \setbox\@leftcolumn \box\@outputbox
    \global\c@colht\@colht\global\c@addvipersep\z@
    \ifnum\juo@sk>0
        \remove@strip\juo@sar
        \global\@colht\the\juo@pr
        \ifdim\right@cor>\z@
                \global\advance\@colht by\right@cor
        \fi
```

```
      \global\advance\@colht by\cor@height
      \global\cor@height=0pt
  \fi
  \global \setbox\@rightcolumn \vbox{}%
\else
  \ifdim\c@colht>\@colht
          \@tempdima\@colht
          \ifdim\@colht>\z@
          \global\setbox\@rightcolumn \vbox{%
                      \unvbox\@rightcolumn
                      \vbox to\@tempdima{%
                              \vskip\c@addvipersep\unvbox\@outputbox}%
                      \vskip\stripsep
                      \vrule height\the\juo@ht width 0pt depth 0pt
                      \vskip\stripsep
                      }%
          \global\c@addvipersep\m@addvipersep
          \else
          \global\setbox\@rightcolumn \vbox{%
                      \unvbox\@rightcolumn
                      \vrule height\the\juo@ht width 0pt depth 0pt
                      \vskip\stripsep
                      }%
          \fi
          \ifnum\juo@sk>0
              \remove@strip\juo@sar
              \global\@colht\the\juo@pr
              \global\advance\@colht by -\ht\@rightcolumn
              \global\advance\@colht by\cor@height
              \global\cor@height=0pt
          \else
              \global\advance\c@colht by-\ht\@rightcolumn
              \global\@colht\c@colht
          \fi
\else
 \global\@firstcolumntrue
  \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
                      \unvbox\@rightcolumn
                      \vskip\c@addvipersep
                      \unvbox\@outputbox
                      }%
  \setbox\@outputbox \vbox {%
                       \hb@xt@\textwidth {%
                         \hb@xt@\columnwidth {%
                           \box\@leftcolumn \hss}%
                         \hfil
                         \vrule \@width\columnseprule
                         \hfil
                         \hb@xt@\columnwidth {%
                           \box\@outputbox \hss}%
```

```
                                                }%
                                }%
    \@combinedblfloats
    \@outputpage
    \begingroup
      \@dblfloatplacement
      \@startdblcolumn
      \@whilesw\if@fcolmade \fi
        {\@outputpage
         \@startdblcolumn}%
    \endgroup
    \global\juo@sk=0\global\juo@sar={}%
    \global\cor@height\z@\global\c@addvipersep\z@
    \fi
  \fi
}


\def\@strip[#1/#2]{\global\@tempdima=#1\global\@tempdimb=#2%
  \global \setbox\@viper\vbox\bgroup\if@RTLmain\moveleft\dimexpr(\columnwidth+\columnsep)\fi\
        \hsize\textwidth
        \@parboxrestore
        \col@number \@ne
        \vrule height\topskip width0pt depth0pt
}

\def\endstrip{%
        \egroup\egroup
        \if@firstcolumn
                \ifdim\pagetotal>\z@
                        \vskip\stripsep
                        \global\ht@strip\pagegoal
                        \global\advance\ht@strip by-\pagetotal
                        \global\advance\ht@strip by-\stripsep
                        \global\advance\ht@strip by-\ht\@viper
                        \global\advance\ht@strip by-\stripsep
                        \global\juo@ht=\ht\@viper
                \else
                        \global\ht@strip\z@
                \fi
                \ifdim\ht@strip>\z@
                  \unvbox\@viper
                  \vskip\stripsep
                  \add@strip{\the\pagetotal}{\the\juo@ht}{\the\@tempdima}{\the\@tempdimb}%
                  \global\advance\juo@sk by1
                \else
                  \@latex@error{Strip needs more place!}\@ehc
                  \if@vihproof
                    \framebox[\columnwidth]{??? Strip ???}%
                  \fi
```

```
                \fi
        \else
          \@latex@error{Strip is used only on left column!}\@ehc
          \if@vihproof
            \framebox[\columnwidth]{??? Strip ???}%
          \fi
        \fi
}
```

7.78 minitoc-xetex-bidi.def

```
\ProvidesFile{minitoc-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for minitoc package fo
\def\@undottedtocline#1#2#3#4#5{%
  \ifnum #1>\c@tocdepth\relax \else
  \vskip \z@ plus.2\p@
  {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
   \parindent #2\relax\@afterindenttrue
   \interlinepenalty\@M
   \leavevmode
   \@tempdima #3\relax \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \hbox{}%
   \hskip -\if@RTL\rightskip\else\leftskip\fi
    #4\nobreak\hfill \nobreak
           \null\par}%
  \fi}
\def\@Undottedtocline#1#2#3#4#5{%
  \ifnum #1>\c@tocdepth\relax \else
    \vskip \z@ \@plus.2\p@
    {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocrmar
     \parindent #2\relax\@afterindenttrue
     \interlinepenalty\@M
     \leavevmode
     \@tempdima #3\relax
     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
     {\coffeefont #4}\nobreak \nobreak\null
    \par}%
  \fi}
\def\@Undottedtoclinep#1#2#3#4#5{%
  \ifnum #1>\c@tocdepth\relax \else
    \vskip \z@ \@plus.2\p@
    {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocrmar
     \parindent #2\relax\@afterindenttrue
     \interlinepenalty\@M
     \leavevmode
     \@tempdima #3\relax
     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
     {#4}\nobreak \hfill \nobreak\null
     \hb@xt@\@pnumwidth{{\hfil\normalfont \normalcolor #5}}%
    \par}%
  \fi}
```

7.79 multicol-xetex-bidi.def

```
\ProvidesFile{multicol-xetex-bidi.def}[2013/11/11 v0.3 bidi adaptations for multicol package
\def\page@sofar{%
   \process@cols\mult@rightbox
       {\ifvoid\count@
          \setbox\count@\hbox to\hsize{}%
        \else
          \wd\count@\hsize
        \fi}%
   \count@\col@number \advance\count@\m@ne
   \mult@info\z@
    {Column spec: \the\full@width\space = indent
                  + columns + sep =\MessageBreak
       \the\multicol@leftmargin\space
       + \the\col@number\space
       x \the\hsize\space
       + \the\count@\space
       x \the\columnsep
     }%
\ifvmode\else\errmessage{Multicol Error}\fi
   \nointerlineskip
   \setbox\z@\hbox{p}\global\dimen\tw@\dp\z@
   \moveright\multicol@leftmargin
    \hbox to\full@width{%
       \if@RTL
         \process@cols\mult@gfirstbox{%
         \hskip\hsize
         \hss{\columnseprulecolor\vrule
              \@width\columnseprule}\hss
          }%
       \hskip\hsize
       \process@cols\mult@gfirstbox{%
       \ifdim\dp\count@>\dimen\tw@
         \global\dimen\tw@\dp\count@ \fi
       \hskip-\hsize
       \box\count@
       \hskip-\hsize
       \hskip-\columnsep
     }%
     \ifdim\dp\mult@rightbox>\dimen\tw@
       \global\dimen\tw@\dp\mult@rightbox \fi
     \hskip-\hsize
     \box\mult@rightbox
     \hskip-\hsize
     \hskip\full@width
       \else
         \process@cols\mult@gfirstbox{%
         \ifdim\dp\count@>\dimen\tw@
           \global\dimen\tw@\dp\count@ \fi
```

```
        \box\count@
        \hss{\columnseprulecolor\vrule
             \@width\columnseprule}\hss}%
        \ifdim\dp\mult@rightbox>\dimen\tw@
          \global\dimen\tw@\dp\mult@rightbox \fi
        \box\mult@rightbox
      \fi
      \rlap{\phantom p}%
   }%
\kern-\dimen\tw@
\ifdim\dimen\tw@ = \mc@gridwarn
  \PackageWarning{multicol}%
    {Very deep columns!\MessageBreak
     Grid alignment might be broken}%
\fi
}
\def\multicols#1{\col@number#1\relax
  \ifnum\col@number<\tw@
    \PackageWarning{multicol}%
     {Using `\number\col@number'
      columns doesn't seem a good idea.^^J
      I therefore use two columns instead}%
    \col@number\tw@ \fi
  \ifnum\col@number>10
    \PackageError{multicol}%
     {Too many columns}%
     {Current implementation doesn't
      support more than 10 columns.%
      \MessageBreak
      I therefore use 10 columns instead}%
    \col@number10 \fi
    \ifx\@footnotetext\mult@footnotetext\else
      \let\orig@footnotetext\@footnotetext
      \let\@footnotetext\mult@footnotetext
    \fi
    \ifx\@LTRfootnotetext\mult@LTRfootnotetext\else
      \let\orig@LTRfootnotetext\@LTRfootnotetext
      \let\@LTRfootnotetext\mult@LTRfootnotetext
    \fi
    \ifx\@RTLfootnotetext\mult@RTLfootnotetext\else
      \let\orig@RTLfootnotetext\@RTLfootnotetext
      \let\@RTLfootnotetext\mult@RTLfootnotetext
    \fi
  \@ifnextchar[\mult@cols{\mult@cols[]}}
\long\def\mult@footnotetext#1{\begingroup
        \hsize\textwidth
        \columnwidth\textwidth
        \orig@footnotetext{#1}\endgroup}
\long\def\mult@LTRfootnotetext#1{\begingroup
        \hsize\textwidth
```

```
          \columnwidth\textwidth
          \orig@LTRfootnotetext{#1}\endgroup}
\long\def\mult@RTLfootnotetext#1{\begingroup
          \hsize\textwidth
          \columnwidth\textwidth
          \orig@RTLfootnotetext{#1}\endgroup}
\def\right@footnoterule{%
  \hbox to \textwidth
  {\beginR \vbox{\kern -3\p@
   \hrule width .4\columnwidth \kern2.6\p@}\hfil\endR}}
\def\textwidth@footnoterule{\kern-3\p@
  \hrule \@width \textwidth \kern 2.6\p@}
```

7.80 multienum-xetex-bidi.def

```
\ProvidesFile{multienum-xetex-bidi.def}[2011/04/16 v0.1 bidi adaptations for multienum packag
\renewcommand{\itemx}[1]{\parbox[t]%
{\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
\parbox[t]{\remainx}{\bidi@raggedright #1}\par}%\smallskip
\renewcommand{\itemxx}[2]{\parbox[t]%
{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{.5\remainxx}{\bidi@raggedright #1}\hfill\parbox[t]%
{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{0.5\remainxx}{\bidi@raggedright #2}\smallskip}
\renewcommand{\itemxxx}[3]{\parbox[t]%
{\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
\parbox[t]{.3333\remainxxx}{\bidi@raggedright #1}\hfill\parbox[t]%
{\labelwidth}{\hfill {\labelname}}\hskip\labelsep%
\parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\hfill\parbox[t]%
{\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
\parbox[t]{0.3333\remainxxx}{\bidi@raggedright #3}\par}%\smallskip
\renewcommand{\itemxxxx}[4]{\parbox[t]%
{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill\parbox[t]%
{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
\parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\hfill%
\parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{0.25\remainxxxx}{\bidi@raggedright #4}\smallskip}
\renewcommand{\itemxxxxx}[5]{\parbox[t]%
{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #1}\hfill%
\parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #2}\hfill%
\parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #3}\hfill%
\parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #4}\hfill%
\parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
```

```
\parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #5}\smallskip}
\renewcommand{\itemxox}[2]{\parbox[t]%
{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
\parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\smallskip}
\renewcommand{\itemxxo}[2]{\parbox[t]%
{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{0.3333\remainxxx}{\bidi@raggedright #1}\hfill%
\parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{\remainxox}{\bidi@raggedright #2}\smallskip}
\renewcommand{\itemxoxx}[3]{\parbox[t]%
{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{\remainxoxx}{\bidi@raggedright #1}\hfill%
\parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
\parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
\renewcommand{\itemxxox}[3]{\parbox[t]%
{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
\parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{\remainxoxx}{\bidi@raggedright #2}\hfill%
\parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
\renewcommand{\itemxxxo}[3]{\parbox[t]%
{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
\parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{.25\remainxxxx}{\bidi@raggedright #2}\hfill%
\parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{\remainxoxx}{\bidi@raggedright #3}\smallskip}
```

7.81 natbib-xetex-bidi.def

```
\ProvidesFile{natbib-xetex-bidi.def}[2011/06/04 v0.1 bidi adaptations for natbib package for
\renewenvironment{thebibliography}[1]{%
 \bibsection
 \parindent\z@
 \bibpreamble
 \bibfont
 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
 \list{\@biblabel{\the\c@NAT@ctr}}{\@bibsetup{#1}\global\c@NAT@ctr\z@}%
 \ifNAT@openbib
   \renewcommand\newblock{\par}%
 \else
   \renewcommand\newblock{\hskip .11em \@plus.33em \@minus.07em}%
 \fi
 \sloppy\clubpenalty4000\widowpenalty4000
 \sfcode`\.\@m
```

```
\let\NAT@bibitem@first@sw\@firstoftwo
   \let\citeN\cite \let\shortcite\cite
   \let\citeasnoun\cite
}{%
 \bibitem@fin
 \bibpostamble
 \def\@noitemerr{%
  \PackageWarning{natbib}{Empty `thebibliography' environment}%
 }%
 \endlist
 \bibcleanup
}%
```

7.82 newfloat-xetex-bidi.def

```
\ProvidesFile{newfloat-xetex-bidi.def}[2013/05/22 v0.1 bidi adaptations for newfloat package
\renewcommand*\newfloat@setwithin[2]{%
  \ifcsname c@chapter\endcsname
    \@removefromreset{#1}{chapter}%
  \fi
  \@removefromreset{#1}{section}%
  \edef\@tempa{#2}%
  \ifx\@tempa\@empty
    \def\@tempa{none}%
  \fi
  \def\@tempb{none}%
  \ifx\@tempa\@tempb
    \ifcsname c@chapter\endcsname
      \@chapterlistsgap@off{#1}%
    \fi
    \newfloat@@setwithin{#1}{}{}%
  \else
    \def\@tempb{chapter}%
    \ifx\@tempa\@tempb
      \@addtoreset{#1}{chapter}%
      \@chapterlistsgap@on{#1}%
      \newfloat@@setwithin{#1}{\ifnum\c@chapter>\z@ \thechapter\@SepMark\fi}{\theHchapter\@Se
    \else
      \def\@tempb{section}%
      \ifx\@tempa\@tempb
        \@addtoreset{#1}{section}%
        \ifcsname c@chapter\endcsname
          \@addtoreset{#1}{chapter}%
          \@chapterlistsgap@on{#1}%
          \newfloat@@setwithin{#1}{\thesection\@SepMark}{\theHsection\@SepMark}%
        \else
          \newfloat@@setwithin{#1}{\ifnum\c@section>\z@ \thesection\@SepMark\fi}{\theHsectior
        \fi
      \else
        \newfloat@Error{Invalid value `#2' for option `within'}%
```

```
      \fi
    \fi
  \fi}
```

7.83 ntheorem-xetex-bidi.def

```
\ProvidesFile{ntheorem-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem package
\gdef\@thm#1#2#3{%
   \if@thmmarks
     \stepcounter{end\InTheoType ctr}%
   \fi
   \renewcommand{\InTheoType}{#1}%
   \if@thmmarks
     \stepcounter{curr#1ctr}%
     \setcounter{end#1ctr}{0}%
   \fi
   \refstepcounter{#2}%
   \theorem@prework
   \thm@topsepadd \theorempostskipamount   % cf. latex.ltx: \@trivlist
   \ifvmode \advance\thm@topsepadd\partopsep\fi
   \trivlist
   \@topsep \theorempreskipamount
   \@topsepadd \thm@topsepadd        % used by \@endparenv
   \advance\linewidth -\theorem@indent
   \advance\@totalleftmargin \theorem@indent
  \if@RTL\parshape \@ne 0pt \linewidth\else  \parshape \@ne \@totalleftmargin \linewidth\fi
   \@ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}}
```

7.84 ntheorem-hyper-xetex-bidi.def

```
\ProvidesFile{ntheorem-hyper-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem-hy
\gdef\@thm#1#2#3{%
   \if@thmmarks
     \stepcounter{end\InTheoType ctr}%
   \fi
   \renewcommand{\InTheoType}{#1}%
   \if@thmmarks
     \stepcounter{curr#1ctr}%
     \setcounter{end#1ctr}{0}%
   \fi
   \refstepcounter{#2}%
   \thm@topsepadd \theorempostskipamount   % cf. latex.ltx: \@trivlist
   \ifvmode \advance\thm@topsepadd\partopsep\fi
   \trivlist
   \@topsep \theorempreskipamount
   \@topsepadd \thm@topsepadd        % used by \@endparenv
   \advance\linewidth -\theorem@indent
   \advance\@totalleftmargin \theorem@indent
   \if@RTL\parshape \@ne 0pt \linewidth\else  \parshape \@ne \@totalleftmargin \linewidth\fi
   \@ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}}
```

7.85 pdfpages-xetex-bidi.def

```
\ProvidesFile{pdfpages-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for pdfpages package
\renewcommand*{\includepdf}[2][]{%
  \begingroup
  \@RTLfalse
  \let\AM@threadname\relax
  \AM@split@options{pdfpages}{#1}%
  \edef\AM@temp{{pdfpages}{\the\@temptokena}}%
  \expandafter\setkeys\AM@temp
  \ifthenelse{\boolean{AM@pkg@draft} \and \boolean{AM@survey}}{%
    \let\AM@currentdocname\relax
    \renewcommand\includegraphics[2][]{Survey in draft-mode}%
    \def\AM@pagecount{0}%
  }{%
    \AM@findfile{#2}%
    \if\AM@threadname\relax
      \def\AM@threadname{\AM@currentdocname}%
    \fi
  }%
  \ifAM@survey
    \def\AM@pagestemp{}%
    \@tempcnta=0
    \def\foo{%
      \@ifundefined{r@\AM@xrprefix pdfpages@page\the\@tempcnta}%
         {\let\foo\relax}
         {\expandafter\ifx\expandafter\\\AM@pagestemp\\
             \edef\AM@pagestemp{%
                \AM@pageref{\AM@xrprefix pdfpages@page\the\@tempcnta}}%
          \else
            \edef\AM@pagestemp{\AM@pagestemp,%
               \AM@pageref{\AM@xrprefix pdfpages@page\the\@tempcnta}}%
          \fi
          \advance\@tempcnta 1\relax
         }%
      \foo
    }%
    \foo
    \expandafter\ifx\expandafter\\\AM@pagestemp\\
      \def\AM@pagestemp{1}%
    \fi
  \fi
  \ifAM@output
    \expandafter\AM@readlist\expandafter{\AM@pagestemp}%
    \AM@output{#1}%
  \fi
  \AM@CheckAtEnd
  \endgroup
  \AM@ClearShipoutPicture
}
```

7.86 pgf-xetex-bidi.def

```
\ProvidesFile{pgf-xetex-bidi.def}[2012/07/08 v0.4 bidi adaptations for pgf package for XeTeX
\let\origin@pgfpicture=\pgfpicture
\let\origin@endpgfpicture=\endpgfpicture
\def\pgfpicture{\ifmmode\else\LTR\beginL\fi\origin@pgfpicture}
\def\endpgfpicture{\origin@endpgfpicture\ifmmode\else\endL\endLTR\fi}%
```

7.87 picinpar-xetex-bidi.def

```
\ProvidesFile{picinpar-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for picinpar package
\long\def\@makewincaption#1#2{%
   \setbox\@tempboxa\hbox{\footnotesize{\bf #1:\enspace}{#2}}%
   \ifdim\wd\@tempboxa>\picwd
      {\footnotesize{\bf #1:\enspace}{#2\par}}
   \else
      \hbox to\picwd{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}
   \fi}
\def\endwindow{%
    \global\tcd=\tcdsav
    \egroup\vskip\parskip\parshape=0 % reset parshape; end \box\rawtext
    \vbadness=10000
    \splittopskip=0pt
%
% Typeset the lines above the window
%
\ifnum\tcd>0\setbox\holder=\vsplit\rawtext to \tcd\baselineskip
\tcn=\tcd
\loop\advance\tcn -1
\setbox\fslice=\vsplit\holder to\baselineskip
\prune\fslice\linewidth
\topheight=0pt
\ifnum\dp\fslice>\dp\wstrutbox
       \advance\topheight-\dp\fslice
       \advance\topheight\dp\wstrutbox
       \advance\topheight\ilg\fi
\hbox to\linewidth{\box\fslice}
\vskip-\topheight
\ifdim\ht\holder>0pt\repeat
\fi
%
% Now we build the boxes beside the window
%
\global\topheight=\tcl\baselineskip
\ifnum\cumpartcl>0\global\tcl=\cumtcl
      \global\topheight=\vpic
\fi
\ifnum\bl>0 \ifnum\br>0 \multiply\topheight by 2\fi\fi
\ifnum\bl>0\setbox\holder=\vsplit\rawtext to\topheight
\else\ifnum\br>0\setbox\holder=\vsplit\rawtext to\topheight\fi\fi
\tcn=\tcl \na=0 \nb=0
```

```
\ifnum\bl>0 \ifnum\br>0 \multiply\tcn by 2\fi\fi
\ifnum\bl>0\na=\tcn\ifnum\br>0\divide\na by 2\fi\fi
\ifnum\br>0\nb=\tcn\ifnum\bl>0\divide\nb by 2\fi\fi
\ifnum\na=0\ifnum\nb=0
      \setbox\waslice=\vbox to\vpic{\vss}
      \setbox\wbslice=\vbox to\vpic{\vss}
      \bl=1\br=1
      \vskip\ilg
\fi\fi
%
% both sides
%
\ifnum\na>0 \ifnum\nb>0
\loop\advance\nb -1
\advance\na -1
\if@RTL%
\setbox\bslice=\vsplit\holder to\baselineskip
\prune\bslice\rtside
\setbox\wbslice=\vbox{\unvbox\wbslice\hbox
to\rtside{\box\bslice\hfil}}
\setbox\aslice=\vsplit\holder to\baselineskip
\prune\aslice\lftside
\setbox\waslice=\vbox{\unvbox\waslice\hbox
to\lftside{\box\aslice\hfil}}
\else%
\setbox\aslice=\vsplit\holder to\baselineskip
\prune\aslice\lftside
\setbox\waslice=\vbox{\unvbox\waslice\hbox
to\lftside{\box\aslice\hfil}}
\setbox\bslice=\vsplit\holder to\baselineskip
\prune\bslice\rtside
\setbox\wbslice=\vbox{\unvbox\wbslice\hbox
to\rtside{\box\bslice\hfil}}
\fi%
\ifnum\nb>0\repeat
\fi\fi
%
% only text on the left side
%
\ifnum\na>0
    \loop\advance\na -1
    \setbox\aslice=\vsplit\holder to\baselineskip
    \prune\aslice\lftside
    \setbox\waslice=\vbox{\unvbox\waslice\hbox
    to\lftside{\box\aslice\hfil}}
    \ifdim\ht\holder>0pt\repeat
\fi
%
% only text on the right side
%
```

```
\ifnum\nb>0
    \loop\advance\nb -1
    \setbox\bslice=\vsplit\holder to\baselineskip
    \prune\bslice\rtside
    \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
    to\rtside{\box\bslice\hfil}}
    \ifdim\ht\holder>0pt\repeat
\fi
%
% fixing the dimensions of the window part
%
\ifnum\bl=0\topheight=\ht\wbslice
\else\ifnum\br=0\topheight=\ht\waslice
      \else\ifdim\ht\waslice>\ht\wbslice\topheight=\ht\waslice
            \else\topheight=\ht\wbslice\fi\fi\fi
%
% ship out the window material to the main vertical list
%
\ifnum\bl>0 \ifnum\br>0 \ifdim\ht\wbslice<\topheight
\setbox\wbslice=\vbox to\topheight{\box\wbslice\vfill}
\fi\fi\fi
\setbox\windowbox=\vbox{\hbox to\linewidth{%
\ifnum\bl>0\box\waslice\hfill\fi%
\vbox to\topheight{\hrule width\picwd height0pt depth0pt\vskip0pt%
\vfill\unvbox\picbox%
\ifnum\picwd>0\vfill\fi%
\vss}\ifnum\br>0\hfill\vbox{\box\wbslice}\fi}}%
\unvbox\windowbox%
\loop
 \setbox\bslice=\vsplit\rawtext to\baselineskip
 \prune\bslice\linewidth
 \setbox\wbslice=\vbox{\hbox to\linewidth{\box\bslice\hfil}}
 \unvbox\wbslice
 \ifdim\ht\rawtext>0pt
\repeat
}% FINITO
```

7.88 plain-xetex-bidi.def

```
\def\TeXXeTOn{\TeXXeTstate=1 }
\def\TeXXeTOff{\TeXXeTstate=0 }
\TeXXeTOn
\def\usebox#1{\leavevmode\copy #1\relax}
\def\bidi@RTL@everypar{\if@RTL{\setbox\z@\lastbox\beginR\ifvoid\z@\else\usebox\z@\fi}\fi}
   \let\bidi@o@everypar=\everypar
   \newtoks\bidi@n@everypar
   \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
   \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
   \let\everypar=\bidi@n@everypar
\def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
```

```
\def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
\protected\def\hboxR{\hbox\bgroup
 \everyhbox{%
  \aftergroup\egroup
  \everyhbox{}%
  \beginR
  \bgroup
  \aftergroup\endR
  \aftergroup\egroup
 }\hbox}
\protected\def\hboxL{\hbox\bgroup
 \everyhbox{%
  \aftergroup\egroup
  \everyhbox{}%
  \beginL
  \bgroup
  \aftergroup\endL
  \aftergroup\egroup
 }\hbox}
\protected\def\vboxR{\vbox\bgroup
 \everyvbox{%
  \aftergroup\egroup
  \everyvbox{}%
  \@RTLtrue
  \bgroup
  \aftergroup\egroup
 }\vbox}
\protected\def\vboxL{\vbox\bgroup
 \everyvbox{%
  \aftergroup\egroup
  \everyvbox{}%
  \@RTLfalse
  \bgroup
  \aftergroup\egroup
 }\vbox}
\def\LTR{\par\@RTLfalse\@RTL@footnotefalse\hsize\linewidth\parshape\z@}
\def\endLTR{\par}
\def\RTL{\par\@RTLtrue\@RTL@footnotetrue\hsize\linewidth\parshape\z@}
\def\endRTL{\par}
\def\setRTL{\@RTLtrue\@RTL@footnotetrue}
\def\setLTR{\@RTLfalse\@RTL@footnotefalse}
\let\unsetRTL=\setLTR
\let\unsetLTR=\setRTL
\let\LR=\LRE
\let\RL=\RLE
\def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
\def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
\let\@ensure@RL=\@ensure@RTL
\let\@ensure@LR=\@ensure@LTR
\def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
```

```
\let\@ensure@maindir=\@ensure@dir
\def\@@RTL{RTL}
\def\@@LTR{LTR}
\def\save@dir{\if@RTL\gdef\saved@@dir{RTL}\else\gdef\saved@@dir{LTR}\fi}
\def\reset@dir{\ifx\saved@@dir\@@RTL\setRTL\else\ifx\saved@@dir\@@LTR\setLTR\else\relax\fi\fi
\let\@@TeX\TeX
\def\TeX{\@ensure@LTR{\@@TeX}}
\long\def\bidi@reflect@box#1{%
  \leavevmode
  \setbox\z@\hbox{{#1}}%
  \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}
  \hbox to \wd\z@{\kern\wd\z@\box\tw@\hss}%
}
\def\XeTeX{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
  \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
\let\setRL=\setRTL
\let\setLR=\setLTR
\let\unsetRL=\setLTR
\let\bidi@saved@eqno=\eqno
\let\bidi@saved@leqno=\leqno
\def\eqno{\ifnum\predisplaydirection<\z@ \bidi@saved@leqno \else \bidi@saved@eqno \fi}
\def\leqno{\ifnum\predisplaydirection<\z@ \bidi@saved@eqno \else \bidi@saved@leqno \fi}
\def\centerline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
\def\leftline#1{\line{\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
\def\rightline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi}}
```

7.89 pstricks-xetex-bidi.def

```
\ProvidesFile{pstricks-xetex-bidi.def}[2010/07/25 v0.3 bidi adaptations for pstricks package
\let\origin@pspicture=\pspicture
\let\origin@endpspicture=\endpspicture
\def\pspicture{\ifmmode\else\LTR\beginL\fi\origin@pspicture}
\def\endpspicture{\origin@endpspicture\ifmmode\else\endL\endLTR\fi}
```

7.90 quotchap-xetex-bidi.def

```
\ProvidesFile{quotchap-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for quotchap package
\renewcommand{\qauthor}[1]{%
  \par\smallskip
  {\if@RTL\raggedright\else\raggedleft\fi\upshape #1\qquad\hbox{}\par}\bigskip}
\renewcommand{\@makechapterhead}[1]{\chapterheadstartvskip%
  {\size@chapter{\sectfont\if@RTL\raggedright\else\raggedleft\fi
      {\chapnumfont
        \ifnum \c@secnumdepth >\m@ne%
        \if@mainmatter\thechapter%
        \fi\fi
        \par\nobreak}%
      {\if@RTL\raggedright\else\raggedleft\fi\advance\if@RTL\rightmargin\else\leftmargin\fi1C
    \nobreak\chapterheadendvskip}}
\renewcommand*{\@iprintcites}{%
  \vbox to\z@{\leavevmode\copy\@quotebox\vss}
```

```
  \global\let\@printcites\relax}
```

7.91 ragged2e-xetex-bidi.def

```
\ProvidesFile{ragged2e-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for ragged2e package
\renewcommand{\Centering}{%
   \ifx\\\@raggedtwoe@savedcr
      \let\\\@centercr
   \fi
   \let\@gnewline\@raggedtwoe@gnewline
   \if@RTL\rightskip\else\leftskip\fi\CenteringLeftskip
   \@rightskip\CenteringRightskip
   \if@RTL\leftskip\else\rightskip\fi\@rightskip
   \parfillskip\CenteringParfillskip
   \parindent\CenteringParindent
   \@raggedtwoe@spaceskiptrue
   \@raggedtwoe@everyselectfont
   }
\renewcommand{\RaggedLeft}{%
   \ifx\\\@raggedtwoe@savedcr
      \let\\\@centercr
   \fi
   \let\@gnewline\@raggedtwoe@gnewline
   \if@RTL\rightskip\else\leftskip\fi\RaggedLeftLeftskip
   \@rightskip\RaggedLeftRightskip
   \if@RTL\leftskip\else\rightskip\fi\@rightskip
   \parfillskip\RaggedLeftParfillskip
   \parindent\RaggedLeftParindent
   \@raggedtwoe@spaceskiptrue
   \@raggedtwoe@everyselectfont
   }
\renewcommand{\RaggedRight}{%
   \ifx\\\@raggedtwoe@savedcr
      \let\\\@centercr
   \fi
   \let\@gnewline\@raggedtwoe@gnewline
   \if@RTL\rightskip\else\leftskip\fi\RaggedRightLeftskip
   \@rightskip\RaggedRightRightskip
   \if@RTL\leftskip\else\rightskip\fi\@rightskip
   \parfillskip\RaggedRightParfillskip
   \parindent\RaggedRightParindent
   \@raggedtwoe@spaceskiptrue
   \@raggedtwoe@everyselectfont
   }
\renewcommand{\justifying}{%
   \let\\\@raggedtwoe@savedcr
   \let\@gnewline\@raggedtwoe@saved@gnewline
   \if@RTL\rightskip\else\leftskip\fi\z@
   \@rightskip\z@
   \if@RTL\leftskip\else\rightskip\fi\@rightskip
```

```
    \parfillskip\JustifyingParfillskip
    \parindent\JustifyingParindent
    \@raggedtwoe@spaceskipfalse
    \@raggedtwoe@everyselectfont
    }
\renewcommand*{\@raggedtwoe@raggedrightboxes@opt}{
  \CheckCommand*{\@arrayparboxrestore}{%
    \let\if@nobreak\iffalse
    \let\if@noskipsec\iffalse
    \let\par\@@par
    \let\-\@dischyph
    \let\'\@acci\let\`\@accii\let\=\@acciii
    \parindent\z@ \parskip\z@skip
    \everypar{}%
    \linewidth\hsize
    \@totalleftmargin\z@
    \if@RTL\rightskip\else\leftskip\fi\z@skip \if@RTL\leftskip\else\rightskip\fi\z@skip \@rig
    \parfillskip\@flushglue \lineskip\normallineskip
    \baselineskip\normalbaselineskip
    \sloppy}%
  \renewcommand{\@arrayparboxrestore}{%
    \let\if@nobreak\iffalse
    \let\if@noskipsec\iffalse
    \let\par\@@par
    \let\-\@dischyph
    \let\'\@acci\let\`\@accii\let\=\@acciii
    \parskip\z@skip
    \everypar{}%
    \linewidth\hsize
    \@totalleftmargin\z@
    \RaggedRight
    \lineskip\normallineskip
    \baselineskip\normalbaselineskip
    \sloppy}%
  \let\@raggedtwoe@raggedrightboxes@opt\relax
  }
\let\origin@RaggedLeft=\RaggedLeft
\let\origin@RaggedRight=\RaggedRight
\def\RaggedLeft{\if@RTL\origin@RaggedRight\else\origin@RaggedLeft\fi}
\def\RaggedRight{\if@RTL\origin@RaggedLeft\else\origin@RaggedRight\fi}
```

7.92 rapport1-xetex-bidi.def

```
\ProvidesFile{rapport1-xetex-bidi.def}[2011/08/26 v0.2 bidi adaptations for rapport1 class fo
\renewenvironment{theindex}{%
  \if@twocolumn
    \@restonecolfalse
  \else
    \@restonecoltrue
  \fi
```

```
  \columnseprule \z@
  \columnsep 35\p@
  \twocolumn[\@makeschapterhead{\indexname}]%
  \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
  \thispagestyle{plain}\parindent\z@
  \parskip\z@ \@plus .3\p@\relax
  \let\item\@idxitem
  }{%
  \if@restonecol\onecolumn\else\clearpage\fi}
\renewcommand*\head@style{%
    \interlinepenalty \@M
    \hyphenpenalty=\@M \exhyphenpenalty=\@M
    \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
\if@titlepage
  \renewenvironment{abstract}{%
      \titlepage
      \null\vfil
      \section*{\SectFont\abstractname}%
      \noindent\ignorespaces}
     {\par\vfil\null\endtitlepage}
\else
  \renewenvironment{abstract}{%
      \if@twocolumn
        \section*{\abstractname}%
      \else
        \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
        \section*{\small\SectFont\abstractname}%
        \noindent\ignorespaces
      \fi}
      {\if@twocolumn\else\par\egroup\fi}
\fi
\renewcommand*\@regtocline[3]{%
  \ifnum #1>\c@tocdepth
  \else
    \vskip\z@\@plus.2\p@
    {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
     \if@RTL\rightskip\else\leftskip\fi\unitindent
     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
     \parfillskip\z@
     \@tempdima\unitindent
     \parindent\z@
     \leavevmode
     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
     \hskip 1em \nobreak{\slshape #3}\par
     }%
  \fi}
\if@oldtoc
\renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >-2\relax
    \addpenalty{-\@highpenalty}%
```

```
    \addvspace{2.25em \@plus\p@}%
    \begingroup
      \setlength\@tempdima{3em}%
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      {\leavevmode
        \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
        \nobreak
        \global\@nobreaktrue
        \everypar{\global\@nobreakfalse\everypar{}}%
    \endgroup
  \fi}
\else
   \renewcommand*\l@part{%
     \ifnum \c@tocdepth >-2\relax
     \addpenalty{-\@highpenalty}%
     \addvspace{2.25em \@plus \p@}%
     \@regtocline{0}%
   \fi}
\fi
\if@oldtoc
\renewcommand*\l@chapter[2]{%
    \addpenalty{-\@highpenalty}%
    \vskip 1.0em \@plus\p@
    \setlength\@tempdima{1.5em}%
    \begingroup
    \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
    \parfillskip -\@pnumwidth
    \leavevmode \bfseries
    \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
    \hskip -\if@RTL\rightskip\else\leftskip\fi
    #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
    \penalty\@highpenalty
   \endgroup}
\else
  \renewcommand*\l@chapter{\@regtocline{0}}
\fi
\renewcommand*\left@footnoterule{%
  \kern-3\p@
  \kern.5\baselineskip
  \hrule\@width\unitindent
  \kern.4\baselineskip
}
\renewcommand*\right@footnoterule{%
  \hbox to \columnwidth
  {\beginR \vbox{%
  \kern-3\p@
  \kern.5\baselineskip
  \hrule\@width\unitindent
  \kern.4\baselineskip}\hfil\endR}
```

```
}
\renewenvironment{thebibliography}[1]
     {\chapter*{\bibname}%
       \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
      \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
      \list{\@biblabel{\@arabic\c@enumiv}}%
           {\settowidth\labelwidth{\@biblabel{#1}}%
            \leftmargin\labelwidth
            \advance\leftmargin\labelsep
            \@openbib@code
            \usecounter{enumiv}%
            \let\p@enumiv\@empty
            \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
      \sloppy\clubpenalty4000\widowpenalty4000%
      \sfcode`\.\@m}
     {\def\@noitemerr
       {\@latex@warning{Empty `thebibliography' environment}}%
      \endlist}
\renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
\renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
\renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
\renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
\renewcommand*\theequation{%
  \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
\renewcommand*\thefigure{%
  \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
\renewcommand*\thetable{%
  \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
\if@titlepage
\renewcommand*\TitleFont{\rmfamily}
\renewcommand*\maketitle{%
  \begin{titlepage}%
    \let\footnotesize\small
    \let\right@footnoterule\relax
    \let\left@footnoterule\relax
    \let\textwidth@footnoterule\relax
    \let \footnote \thanks
    \long\def\@makefntext##1{\parindent\z@
         \def\labelitemi{\textendash}\@revlabeltrue
         \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
    \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
    \if@compatibility\setcounter{page}{0}\fi
    \null\vfil
    \vskip 60\p@
    \begin{center}%
      \TitleFont
      {\LARGE \def\\{\penalty -\@M}
        \if@allcaps
          \expandafter\uc@nothanks\@title\thanks\relax
```

```
        \else
          \@title
        \fi\par}%
      \vskip 3em%
      {\large
        \lineskip .75em \parindent\z@
        \begin{tabular}[t]{c}%
          \if@allcaps
            \expandafter\uc@authornothanks\@author\and\relax
          \else
            \@author
          \fi
        \end{tabular}\par}%
      \vskip 1.5em%
      {\large
        \if@allcaps
          \uppercase\expandafter{\@date}%
        \else
          \@date
        \fi\par}%
      \end{center}\par
    \@thanks
    \vfil\null
  \end{titlepage}%
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@title\@empty
  \global\let\@date\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
\def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
    \futurelet\@tempa\uc@ax}
\def\uc@ax{%
  \ifx\@tempa\relax
  \else
    \\ \andname \\ \expandafter\uc@authornothanks
  \fi}
\def\uc@tx{\ifx\@tempa\relax
    \else \expandafter\uc@ty \fi}
\def\uc@ty#1{\thanks{#1}\uc@nothanks}
\else
\renewcommand*\maketitle{\par
  \begingroup
```

```
    \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
    \def\@makefnmark{\rlap{%
      \@textsuperscript{\normalfont\@thefnmark}}}%
    \long\def\@makefntext{\@xmakefntext{%
      \@textsuperscript{\normalfont\@thefnmark}}}%
    \if@twocolumn
      \ifnum \col@number=\@ne
        \@maketitle
      \else
        \twocolumn[\@maketitle]%
      \fi
    \else
      \newpage
      \global\@topnum\z@
      \@maketitle
    \fi
    \thispagestyle{plain}\@thanks
  \endgroup
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\maketitle\relax
  \global\let\@maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@title\@empty
  \global\let\@date\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
  }
\def\@maketitle{%
  \newpage
  \null
  \vskip 2em%
  \begin{center}%
    \let \footnote \thanks
    {\LARGE \TitleFont \@title \par}%
    \vskip 1.5em%
    {\large \TitleFont
      \lineskip .5em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
    \vskip 1em%
    {\large \TitleFont \@date}%
  \end{center}%
  \par
  \vskip 1.5em}
\fi
```

7.93 rapport3-xetex-bidi.def

```
\ProvidesFile{rapport3-xetex-bidi.def}[2011/08/26 v0.4 bidi adaptations for rapport3 class fo
\renewenvironment{theindex}{%
  \if@twocolumn
    \@restonecolfalse
  \else
    \@restonecoltrue
  \fi
  \columnseprule \z@
  \columnsep 35\p@
  \twocolumn[\@makeschapterhead{\indexname}]%
  \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
  \thispagestyle{plain}\parindent\z@
  \parskip\z@ \@plus .3\p@\relax
  \let\item\@idxitem
  }{%
  \if@restonecol\onecolumn\else\clearpage\fi}
\if@titlepage
\renewcommand*\TitleFont{\rmfamily}
\renewcommand*\maketitle{%
  \begin{titlepage}%
    \let\footnotesize\small
    \let\right@footnoterule\relax
    \let\left@footnoterule\relax
    \let\textwidth@footnoterule\relax
    \let \footnote \thanks
    \let \LTRfootnote \LTRthanks
    \let \RTLfootnote \RTLthanks
    \long\def\@makefntext##1{\parindent\z@
         \def\labelitemi{\textendash}\@revlabeltrue
         \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
    \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
    \if@compatibility\setcounter{page}{0}\fi
    \null\vfil
    \vskip 60\p@
    \begin{center}%
      \TitleFont
      {\LARGE \def\\{\penalty -\@M}
        \if@allcaps
          \expandafter\uc@nothanks\@title\thanks\relax
        \else
          \@title
        \fi\par}%
      \vskip 3em%
      {\large
        \lineskip .75em \parindent\z@
        \begin{tabular}[t]{c}%
          \if@allcaps
            \expandafter\uc@authornothanks\@author\and\relax
```

```
          \else
            \@author
          \fi
        \end{tabular}\par}%
      \vskip 1.5em%
      {\large
        \if@allcaps
          \uppercase\expandafter{\@date}%
        \else
          \@date
        \fi\par}%
      \end{center}\par
    \@thanks
    \vfil\null
  \end{titlepage}%
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\LTRthanks\relax
  \global\let\RTLthanks\relax
  \global\let\maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@title\@empty
  \global\let\@date\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
\def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
    \futurelet\@tempa\uc@ax}
\def\uc@ax{%
  \ifx\@tempa\relax
  \else
    \\ \andname \\ \expandafter\uc@authornothanks
  \fi}
\def\uc@tx{\ifx\@tempa\relax
    \else \expandafter\uc@ty \fi}
\def\uc@ty#1{\thanks{#1}\uc@nothanks}
\else
\renewcommand*\maketitle{\par
  \begingroup
    \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
    \def\@makefnmark{\rlap{%
      \@textsuperscript{\normalfont\@thefnmark}}}%
    \long\def\@makefntext{\@xmakefntext{%
      \@textsuperscript{\normalfont\@thefnmark}}}%
    \if@twocolumn
      \ifnum \col@number=\@ne
```

```
        \@maketitle
      \else
        \twocolumn[\@maketitle]%
      \fi
    \else
      \newpage
      \global\@topnum\z@
      \@maketitle
    \fi
    \thispagestyle{plain}\@thanks
  \endgroup
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\LTRthanks\relax
  \global\let\RTLthanks\relax
  \global\let\maketitle\relax
  \global\let\@maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@title\@empty
  \global\let\@date\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
  }
\def\@maketitle{%
  \newpage
  \null
  \vskip 2em%
\if@titlecentered
  \begin{center}%
    \let \footnote \thanks
    \let \LTRfootnote \LTRthanks
    \let \RTLfootnote \RTLthanks
    {\LARGE \TitleFont \@title \par}%
    \vskip 1.5em%
    {\large \TitleFont
      \lineskip .5em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
    \vskip 1em%
    {\large \TitleFont \@date}%
  \end{center}%
\else
    {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
    {\large \TitleFont \lineskip .5em \tabcolsep\z@
            \def\and{%%% \begin{tabular} has already started
                     \end{tabular}\hskip 1em plus .17fil
```

```
                      \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}%% \end{tabul
            \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}\p
    \vskip 1em {\large \TitleFont \@date}
\fi
 \par
 \vskip 1.5em}
\fi
\renewcommand*\@regtocline[3]{%
 \ifnum #1>\c@tocdepth
 \else
   \vskip\z@\@plus.2\p@
   {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
    \if@RTL\rightskip\else\leftskip\fi\unitindent
    \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
    \parfillskip\z@
    \@tempdima\unitindent
    \parindent\z@
    \leavevmode
    \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
    \hskip 1em \nobreak{\slshape #3}\par
    }%
 \fi}
\if@oldtoc
\renewcommand*\l@part[2]{%
 \ifnum \c@tocdepth >-2\relax
   \addpenalty{-\@highpenalty}%
   \addvspace{2.25em \@plus\p@}%
   \begingroup
     \setlength\@tempdima{3em}%
     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
     \parfillskip -\@pnumwidth
     {\leavevmode
       \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
       \nobreak
       \global\@nobreaktrue
       \everypar{\global\@nobreakfalse\everypar{}}%
   \endgroup
 \fi}
\else
  \renewcommand*\l@part{%
    \ifnum \c@tocdepth >-2\relax
    \addpenalty{-\@highpenalty}%
    \addvspace{2.25em \@plus \p@}%
    \@regtocline{0}%
  \fi}
\fi
\if@oldtoc
\renewcommand*\l@chapter[2]{%
    \addpenalty{-\@highpenalty}%
    \vskip 1.0em \@plus\p@
```

```
    \setlength\@tempdima{1.5em}%
    \begingroup
    \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
    \parfillskip -\@pnumwidth
    \leavevmode \bfseries
    \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
    \hskip -\if@RTL\rightskip\else\leftskip\fi
    #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
    \penalty\@highpenalty
   \endgroup}
\else
  \renewcommand*\l@chapter{\@regtocline{0}}
\fi
\renewcommand*\head@style{%
    \interlinepenalty \@M
    \hyphenpenalty=\@M \exhyphenpenalty=\@M
    \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
\if@titlepage
  \renewenvironment{abstract}{%
      \titlepage
      \null\vfil
      \section*{\SectFont\abstractname}%
      \noindent\ignorespaces}
     {\par\vfil\null\endtitlepage}
\else
  \renewenvironment{abstract}{%
      \if@twocolumn
        \section*{\abstractname}%
      \else
        \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
        \section*{\small\SectFont\abstractname}%
        \noindent\ignorespaces
      \fi}
      {\if@twocolumn\else\par\egroup\fi}
\fi
\renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
\renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
\renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
\renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
\renewcommand*\thefigure{%
  \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
\renewcommand*\thetable{%
  \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
\renewcommand*\theequation{%
  \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
\renewenvironment{thebibliography}[1]
     {\chapter*{\bibname}%
       \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
      \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
```

```
      \list{\@biblabel{\@arabic\c@enumiv}}%
           {\settowidth\labelwidth{\@biblabel{#1}}%
            \leftmargin\labelwidth
            \advance\leftmargin\labelsep
            \@openbib@code
            \usecounter{enumiv}%
            \let\p@enumiv\@empty
            \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
      \sloppy\clubpenalty4000\widowpenalty4000%
      \sfcode`\.\@m}
     {\def\@noitemerr
       {\@latex@warning{Empty `thebibliography' environment}}%
      \endlist}
\renewcommand*\left@footnoterule{%
  \kern-3\p@
  \kern.5\baselineskip
  \hrule\@width\unitindent
  \kern.4\baselineskip
}
\renewcommand*\right@footnoterule{%
  \hbox to \columnwidth
  {\beginR \vbox{%
  \kern-3\p@
  \kern.5\baselineskip
  \hrule\@width\unitindent
  \kern.4\baselineskip}\hfil\endR}
}
\renewcommand*\head@style{%
    \interlinepenalty \@M
    \hyphenpenalty=\@M \exhyphenpenalty=\@M
    \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
```

7.94 refrep-xetex-bidi.def

```
\ProvidesFile{refrep-xetex-bidi.def}[2010/07/25 v0.3 bidi adaptations for refrep class for Xe
\if@titlepage
  \renewcommand\maketitle{\begin{titlepage}%
  \let\footnotesize\small
  \let\right@footnoterule\relax
  \let\left@footnoterule\relax
  \let\textwidth@footnoterule\relax
  \let\footnote\thanks
  \let\LTRfootnote\LTRthanks
  \let\RTLfootnote\RTLthanks
  \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
  \def\@makefnmark%
      {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
  \long\def\@makefntext##1{%
       \@setpar{\@@par
          \@tempdima = \hsize
```

```
          \advance\@tempdima -1em
          \parshape \@ne 1em \@tempdima}%
       \par\parindent 1em \noindent
       \hb@xt@\z@{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
  \null\vfil
  \vskip 60\p@
  \begin{center}%
    {\LARGE \@title \par}%
    \vskip 3em%
    {\large
     \lineskip .75em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
      \vskip 1.5em%
    {\large \@date \par}%       % Set date in \large size.
  \end{center}\par
  \@thanks
  \vfil\null
  \end{titlepage}%
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\LTRthanks\relax
  \global\let\RTLthanks\relax
  \global\let\maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty
  \global\let\@title\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
  }
\else
  \renewcommand\maketitle{\par
    \begingroup
      \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
      \def\@makefnmark%
          {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
      \long\def\@makefntext##1{%
         \@setpar{\@@par
           \@tempdima = \hsize
           \advance\@tempdima -1em
           \parshape \@ne 1em \@tempdima}%
         \par\parindent 1em \noindent
         \hb@xt@\z@{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
      \if@twocolumn
        \ifnum \col@number=\@ne
          \@maketitle
```

```
        \else
          \twocolumn[\@maketitle]%
        \fi
      \else
        \newpage
        \global\@topnum\z@   % Prevents figures from going at top of page.
        \@maketitle
      \fi
      \thispagestyle{empty}\@thanks
    \endgroup
    \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\LTRthanks\relax
  \global\let\RTLthanks\relax
  \global\let\maketitle\relax
  \global\let\@maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty
  \global\let\@title\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
  \def\@maketitle{%
    \newpage
    \null
    \longthickrule\vskip1.5em%
    \let \footnote \thanks
    \let \LTRfootnote \LTRthanks
    \let \RTLfootnote \RTLthanks
    {\secshape \parskip\z@ \parindent\z@
    \Large\bfseries \@title \par}%
    \vskip1.5em\longthickrule\vskip1.5em%
    {\normalsize
      \lineskip .5em%
      \begin{flushright}%
        {\slshape\@author\par}
        \vskip 1em%
        {\@date}%
      \end{flushright}\par}%
    \vskip 1.5em}
\fi
\renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >-2\relax
    \addpenalty{-\@highpenalty}%
    \addvspace{2.25em \@plus\p@}%
    \begingroup
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
```

```
      \parfillskip -\@pnumwidth
      {\leavevmode
       \large \bfseries #1\hfil \hbox to\@pnumwidth{\hss #2}}\par
       \nobreak
         \global\@nobreaktrue
         \everypar{\global\@nobreakfalse\everypar{}}%
      \endgroup
  \fi}
\renewcommand*\l@chapter[2]{%
  \ifnum \c@tocdepth >\m@ne
    \addpenalty{-\@highpenalty}%
    \vskip 1.0em \@plus\p@
    \setlength\@tempdima{1.5em}%
    \begingroup
    \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
    \parfillskip -\@pnumwidth
    \leavevmode \bfseries
    \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
    \hskip -\if@RTL\rightskip\else\leftskip\fi
    #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
    \penalty\@highpenalty
   \endgroup
  \fi}
\renewcommand\secshape{\if@RTL\rightskip\else\leftskip\fi=-\leftmarginwidth%
                       \if@RTL\leftskip\else\rightskip\fi=\@flushglue%
                       \hyphenpenalty=2000}
\renewcommand\left@footnoterule{%
  \kern-3\p@
  \hrule\@width.4\columnwidth
  \kern 2.6\p@}
\renewcommand\right@footnoterule{%
  \hbox to \columnwidth
  {\beginR \vbox{%
  \kern-3\p@
  \hrule\@width.4\columnwidth
  \kern 2.6\p@}\hfil\endR}}
\renewcommand\theequation
{\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
\renewcommand\thefigure
     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
\renewcommand\thetable%
     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
\renewcommand\thesection       {\thechapter\@SepMark\@arabic\c@section}
\renewcommand\thesubsection    {\thesection\@SepMark\@arabic\c@subsection}
\renewcommand\thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
\renewcommand\theparagraph     {\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand\thesubparagraph  {\theparagraph\@SepMark\@arabic\c@subparagraph}
\renewenvironment{thebibliography}[1]
     {\chapter*{\bibname
         \@mkboth{\bibname}{\bibname}}%
```

```
      \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
      \list{\@biblabel{\@arabic\c@enumiv}}%
           {\settowidth\labelwidth{\@biblabel{#1}}%
            \leftmargin\labelwidth
            \advance\leftmargin\labelsep
            \@openbib@code
            \usecounter{enumiv}%
            \let\p@enumiv\@empty
            \renewcommand\theenumiv{\@arabic\c@enumiv}}%
            \sloppy
            \clubpenalty4000
            \@clubpenalty \clubpenalty
            \widowpenalty4000%
      \sfcode`\.=\@m}
     {\def\@noitemerr
       {\@latex@warning{Empty `thebibliography' environment}}%
      \endlist}
```

7.95 report-xetex-bidi.def

```
\ProvidesFile{report-xetex-bidi.def}[2011/08/26 v0.6 bidi adaptations for standard report cla
\renewenvironment{theindex}
               {\if@twocolumn
                  \@restonecolfalse
                \else
                  \@restonecoltrue
                \fi
                \columnseprule \z@
                \columnsep 35\p@
                \twocolumn[\@makeschapterhead{\indexname}]%
                \@mkboth{\MakeUppercase\indexname}%
                        {\MakeUppercase\indexname}%
                \thispagestyle{plain}\parindent\z@
                \parskip\z@ \@plus .3\p@\relax
                \let\item\@idxitem}
               {\if@restonecol\onecolumn\else\clearpage\fi}
  \if@titlepage
  \renewcommand\maketitle{\begin{titlepage}%
  \let\footnotesize\small
  \let\right@footnoterule\relax
  \let\left@footnoterule\relax
  \let\textwidth@footnoterule\relax
  \let \footnote \thanks
  \let \LTRfootnote \LTRthanks
  \let \RTLfootnote \RTLthanks
  \null\vfil
  \vskip 60\p@
  \begin{center}%
    {\LARGE \@title \par}%
    \vskip 3em%
```

```
    {\large
     \lineskip .75em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
      \vskip 1.5em%
    {\large \@date \par}%       % Set date in \large size.
  \end{center}\par
  \@thanks
  \vfil\null
  \end{titlepage}%
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\LTRthanks\relax
  \global\let\RTLthanks\relax
  \global\let\maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty
  \global\let\@title\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\else
\renewcommand\maketitle{\par
  \begingroup
    \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
    \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
    \long\def\@makefntext##1{\parindent 1em\noindent
            \hb@xt@1.8em{%
                \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
    \if@twocolumn
      \ifnum \col@number=\@ne
        \@maketitle
      \else
        \twocolumn[\@maketitle]%
      \fi
    \else
      \newpage
      \global\@topnum\z@   % Prevents figures from going at top of page.
      \@maketitle
    \fi
    \thispagestyle{plain}\@thanks
  \endgroup
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\LTRthanks\relax
  \global\let\RTLthanks\relax
```

```
  \global\let\maketitle\relax
  \global\let\@maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty
  \global\let\@title\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\def\@maketitle{%
  \newpage
  \null
  \vskip 2em%
  \begin{center}%
  \let \footnote \thanks
  \let \LTRfootnote \LTRthanks
  \let \RTLfootnote \RTLthanks
    {\LARGE \@title \par}%
    \vskip 1.5em%
    {\large
      \lineskip .5em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
    \vskip 1em%
    {\large \@date}%
  \end{center}%
  \par
  \vskip 1.5em}
\fi
\renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >-2\relax
    \addpenalty{-\@highpenalty}%
    \addvspace{2.25em \@plus\p@}%
    \setlength\@tempdima{3em}%
    \begingroup
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      {\leavevmode
       \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
       \nobreak
         \global\@nobreaktrue
         \everypar{\global\@nobreakfalse\everypar{}}%
    \endgroup
  \fi}
\renewcommand*\l@chapter[2]{%
  \ifnum \c@tocdepth >\m@ne
    \addpenalty{-\@highpenalty}%
```

```
    \vskip 1.0em \@plus\p@
    \setlength\@tempdima{1.5em}%
    \begingroup
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      \leavevmode \bfseries
      \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
      \hskip -\if@RTL\rightskip\else\leftskip\fi
      #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
      \penalty\@highpenalty
    \endgroup
  \fi}
\renewcommand\left@footnoterule{%
  \kern-3\p@
  \hrule\@width.4\columnwidth
  \kern2.6\p@}
\renewcommand\right@footnoterule{%
  \hbox to \columnwidth
  {\beginR \vbox{%
  \kern-3\p@
  \hrule\@width.4\columnwidth
  \kern2.6\p@}\hfil\endR}}
\renewcommand\theequation
  {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
\renewcommand \thefigure
     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
\renewcommand \thetable
     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
\renewcommand \thechapter {\@arabic\c@chapter}
\renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
\renewcommand\thesubsection   {\thesection\@SepMark\@arabic\c@subsection}
\renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
\renewcommand\theparagraph    {\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
\def\@makechapterhead#1{%
  \vspace*{50\p@}%
  {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
    \ifnum \c@secnumdepth >\m@ne
        \huge\bfseries \@chapapp\space \thechapter
        \par\nobreak
        \vskip 20\p@
    \fi
    \interlinepenalty\@M
    \Huge \bfseries #1\par\nobreak
    \vskip 40\p@
  }}
\def\@makeschapterhead#1{%
  \vspace*{50\p@}%
  {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
    \normalfont
```

```
    \interlinepenalty\@M
    \Huge \bfseries  #1\par\nobreak
    \vskip 40\p@
  }}
\renewenvironment{thebibliography}[1]
     {\chapter*{\bibname}%
      \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
      \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
      \list{\@biblabel{\@arabic\c@enumiv}}%
           {\settowidth\labelwidth{\@biblabel{#1}}%
            \leftmargin\labelwidth
            \advance\leftmargin\labelsep
            \@openbib@code
            \usecounter{enumiv}%
            \let\p@enumiv\@empty
            \renewcommand\theenumiv{\@arabic\c@enumiv}}%
      \sloppy
      \clubpenalty4000
      \@clubpenalty \clubpenalty
      \widowpenalty4000%
      \sfcode`\.\@m}
     {\def\@noitemerr
       {\@latex@warning{Empty `thebibliography' environment}}%
      \endlist}
```

7.96 rotating-xetex-bidi.def

```
\ProvidesFile{rotating-xetex-bidi.def}[2013/05/22 v0.2 bidi adaptations for rotating package
\def\end@rotfloat{%
   \end{minipage}\end{lrbox}%
   \stepcounter{r@tfl@t}%
   \rot@label{RF\ther@tfl@t}%
   \rot@pageref{RF\ther@tfl@t}{\R@@page}%
   \edef\@tempa{Adding sideways \@captype\space on page \R@@page\space}
   \rot@mess@toks\expandafter{\@tempa}
   \wd\rot@float@box\z@
   \ht\rot@float@box\z@
   \dp\rot@float@box\z@
   \vboxL to \textheight{%
    \setkeys{Grot}{units=360}%
    \if@rot@twoside
    \else
      \let\R@@page\rot@LR
    \fi
    \ifthenelse{\isodd{\R@@page}}{%
      \if@rot@twoside
        \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
      \fi
      \vfill
      \@@line{%
```

```
        \hskip\rotFPtop
        \rotatebox{90}{\box\rot@float@box}%
        \hskip\rotFPbot
      }%
    }{%
      \if@rot@twoside
        \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
      \fi
      \@@line{%
        \hskip\rotFPbot
        \rotatebox{-90}{\box\rot@float@box}%
        \hskip\rotFPtop
      }%
      \vfill
    }%
    \rot@message{\the\rot@mess@toks}
  }%
  \end@float
}
\let\endsidewaysfigure\end@rotfloat
\let\endsidewaystable\end@rotfloat
\def\end@rotdblfloat{%
  \end{minipage}\end{lrbox}%
  \stepcounter{r@tfl@t}%
  \rot@label{RF\ther@tfl@t}%
  \rot@pageref{RF\ther@tfl@t}{\R@@page}%
  \edef\@tempa{Adding sideways \@captype\space on page \R@@page\space}
  \rot@mess@toks\expandafter{\@tempa}
  \@tempdima\ht\rot@float@box
  \advance\@tempdima by \dp\rot@float@box
  \wd\rot@float@box\z@
  \ht\rot@float@box\z@
  \dp\rot@float@box\z@
  \vboxL to \textheight{%
    \setkeys{Grot}{units=360}%
    \if@rot@twoside
    \else
      \let\R@@page\rot@LR
    \fi
    \ifthenelse{\isodd{\R@@page}}{%
      \ifrot@messages
        \if@rot@twoside
  \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
\fi
      \fi
      \vfill
      \@@line{%
        \hskip\rotFPtop
        \rotatebox{90}{\box\rot@float@box}%
        \hskip\rotFPbot
```

```
      }%
    }{%
      \ifrot@messages
        \if@rot@twoside
  \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
\fi
      \fi%
      \@@line{%
        \hskip\rotFPbot
        \rotatebox{-90}{\box\rot@float@box}%
        \hskip\rotFPtop
      }%
      \vfill
    }%
    \rot@message{\the\rot@mess@toks}%
  }%
  \end@dblfloat
}
\def\turn#1{%
  \Grot@setangle{#1}%
  \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
\def\endturn{%
  \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
  \unskip\color@endbox
  \Grot@x\z@
  \Grot@y\z@
  \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
}
\def\rotate#1{%
  \Grot@setangle{#1}%
  \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
\def\endrotate{%
 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
  \unskip\color@endbox
  \Grot@x\z@
  \Grot@y\z@
  \wd0\z@\dp0\z@\ht0\z@
  \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
}
\def\turnbox#1#2{%
  \Grot@setangle{#1}%
  \setbox\z@\hbox{{\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi#2\ifmmode\if@RTL\endR\f
  \Grot@x\z@\Grot@y\z@
  \wd0\z@\dp0\z@\ht0\z@
  \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
}
\def\sideways{%
  \Grot@setangle{90}%
  \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
\def\endsideways{%
```

```
 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
  \unskip\color@endbox
  \Grot@x\z@
  \Grot@y\z@
  \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
}
```

7.97 scrartcl-xetex-bidi.def

```
\ProvidesFile{scrartcl-xetex-bidi.def}[2012/01/01 v0.6 bidi adaptations for scrartcl class fo
\newcommand{\scr@saved@LTRfootnotetext}{}
\newcommand{\scr@saved@RTLfootnotetext}{}
\let\scr@saved@footnotetext\@footnotetext
\let\scr@saved@LTRfootnotetext\@LTRfootnotetext
\let\scr@saved@RTLfootnotetext\@RTLfootnotetext
\renewcommand{\@footnotetext}[1]{%
  \scr@saved@footnotetext{#1}%
  \csname FN@mf@prepare\endcsname
}
\renewcommand{\@LTRfootnotetext}[1]{%
  \scr@saved@LTRfootnotetext{#1}%
  \csname FN@mf@prepare\endcsname
}
\renewcommand{\@RTLfootnotetext}[1]{%
  \scr@saved@RTLfootnotetext{#1}%
  \csname FN@mf@prepare\endcsname
}
\renewcommand\deffootnote[4][]{%
  \long\def\@makefntext##1{%
    \setlength{\@tempdimc}{#3}%
    \def\@tempa{#1}\ifx\@tempa\@empty
      \@setpar{\@@par
        \@tempdima = \hsize
        \addtolength{\@tempdima}{-#2}%
        \if@RTL\parshape \@ne 0pt \@tempdima\else\parshape \@ne #2 \@tempdima\fi}%
    \else
      \addtolength{\@tempdimc}{#2}%
      \addtolength{\@tempdimc}{-#1}%
      \@setpar{\@@par
        \@tempdima = \hsize
        \addtolength{\@tempdima}{-#1}%
        \@tempdimb = \hsize
        \addtolength{\@tempdimb}{-#2}%
        \if@RTL\parshape \tw@ 0pt \@tempdima 0pt \@tempdimb\else\parshape \tw@ #1 \@tempdima
      }%
    \fi
    \par
    \parindent\@tempdimc\noindent
    \ftn@font\hbox to \z@{\hss\@@makefnmark}##1%
  }%
```

```
  \def\@@makefnmark{\hbox{\ftnm@font{#4}}}%
}
\deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
\renewcommand*\left@footnoterule{%
  \normalsize\ftn@rule@test@values
  \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
  \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
  {\usekomafont{footnoterule}{%
      \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
  \kern 2.6\p@}
\renewcommand*\right@footnoterule{%
  \hbox to \columnwidth
  {\beginR \vbox{\kern -3\p@
  \normalsize\ftn@rule@test@values
  \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
  \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
  {\usekomafont{footnoterule}{%
      \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
  \kern 2.6\p@}\hfil\endR}}
\renewcommand*\maketitle[1][1]{%
  \if@titlepage
    \begin{titlepage}
      \setcounter{page}{%
        #1%
      }%
      \let\footnotesize\small
      \let\right@footnoterule\relax
      \let\left@footnoterule\relax
      \let\textwidth@footnoterule\relax
      \let\footnote\thanks
      \let\LTRfootnote\LTRthanks
      \let\RTLfootnote\RTLthanks
      \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
      \let\@oldmakefnmark\@makefnmark
      \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
      \ifx\@extratitle\@empty \else
        \noindent\@extratitle\next@tpage\cleardoubleemptypage
        \thispagestyle{empty}%
      \fi
      \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
      \ifx\@titlehead\@empty \else
        \begin{minipage}[t]{\textwidth}%
        \@titlehead
        \end{minipage}\par
      \fi
      \null\vfill
      \begin{center}
        \ifx\@subject\@empty \else
          {\subject@font \@subject \par}%
          \vskip 3em
```

```
      \fi
      {\titlefont\huge \@title\par}%
      \vskip 1em
      {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
      \vskip 2em
      {\Large \lineskip 0.75em
        \begin{tabular}[t]{c}
          \@author
        \end{tabular}\par
      }%
      \vskip 1.5em
      {\Large \@date \par}%
      \vskip \z@ \@plus3fill
      {\Large \@publishers \par}%
      \vskip 3em
    \end{center}\par
    \@thanks
    \vfill\null
    \if@twoside\next@tpage
      \begin{minipage}[t]{\textwidth}
        \@uppertitleback
      \end{minipage}\par
      \vfill
      \begin{minipage}[b]{\textwidth}
        \@lowertitleback
      \end{minipage}
    \fi
    \ifx\@dedication\@empty \else
      \next@tpage\null\vfill
      {\centering \Large \@dedication \par}%
      \vskip \z@ \@plus3fill
      \if@twoside \next@tpage\cleardoubleemptypage \fi
    \fi
  \end{titlepage}
\else
  \par
  \@tempcnta=%
  #1%
  \relax\ifnum\@tempcnta=1\else
    \ClassWarning{\KOMAClassName}{%
      Optional argument of \string\maketitle\space ignored
      at\MessageBreak
      notitlepage-mode%
    }%
  \fi
  \begingroup
    \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
    \let\@oldmakefnmark\@makefnmark
    \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}
    \if@twocolumn
```

```
        \ifnum \col@number=\@ne
          \@maketitle
        \else
          \twocolumn[\@maketitle]%
        \fi
      \else
        \newpage
        \global\@topnum\z@
        \@maketitle
      \fi
      \thispagestyle{\titlepagestyle}\@thanks
    \endgroup
  \fi
  \setcounter{footnote}{0}%
  \let\thanks\relax
  \let\LTRthanks\relax
  \let\RTLthanks\relax
  \let\maketitle\relax
  \let\@maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty
  \global\let\@title\@empty
  \global\let\@subtitle\@empty
  \global\let\@extratitle\@empty
  \global\let\@titlehead\@empty
  \global\let\@subject\@empty
  \global\let\@publishers\@empty
  \global\let\@uppertitleback\@empty
  \global\let\@lowertitleback\@empty
  \global\let\@dedication\@empty
  \global\let\author\relax
  \global\let\title\relax
  \global\let\extratitle\relax
  \global\let\titlehead\relax
  \global\let\subject\relax
  \global\let\publishers\relax
  \global\let\uppertitleback\relax
  \global\let\lowertitleback\relax
  \global\let\dedication\relax
  \global\let\date\relax
  \global\let\and\relax
}%
\renewcommand*{\@maketitle}{%
  \clearpage
  \let\footnote\thanks
  \let\LTRfootnote\LTRthanks
  \let\RTLfootnote\RTLthanks
  \ifx\@extratitle\@empty \else
    \noindent\@extratitle \next@tpage \if@twoside \null\next@tpage \fi
```

```
  \fi
  \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
  \ifx\@titlehead\@empty \else
    \begin{minipage}[t]{\textwidth}
      \@titlehead
    \end{minipage}\par
  \fi
  \null
  \vskip 2em%
  \begin{center}%
    \ifx\@subject\@empty \else
      {\subject@font \@subject \par}
      \vskip 1.5em
    \fi
    {\titlefont\huge \@title \par}%
    \vskip .5em
    {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
    \vskip 1em
    {\Large
      \lineskip .5em%
      \begin{tabular}[t]{c}
        \@author
      \end{tabular}\par
    }%
    \vskip 1em%
    {\Large \@date \par}%
    \vskip \z@ \@plus 1em
    {\Large \@publishers \par}
    \ifx\@dedication\@empty \else
      \vskip 2em
      {\Large \@dedication \par}
    \fi
  \end{center}%
  \par
  \vskip 2em
}%
\renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >\m@ne\relax
    \addpenalty{\@secpenalty}%
    \addvspace{2.25em \@plus\p@}%
    \setlength{\@tempdima}{2em}%
    \if@tocleft
      \ifx\toc@l@number\@empty\else
        \setlength\@tempdima{0\toc@l@number}%
      \fi
    \fi
    \begingroup
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      \leavevmode
```

```
      \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
      \hskip -\if@RTL\rightskip\else\leftskip\fi
      {\usekomafont{partentry}{#1\nobreak
        \usekomafont{partentrypagenumber}{\hfil\nobreak
          \hb@xt@\@pnumwidth{\hss#2}}}}\par
      \ifnum \scr@compatibility>\@nameuse{scr@v@2.96}\relax
      \endgroup
      \penalty20010
      \else
        \if@compatibility
          \global\@nobreaktrue
          \everypar{\global\@nobreakfalse\everypar{}}%
        \else
          \penalty\@highpenalty
         \fi
      \endgroup
    \fi
  \fi
}
\renewcommand*\l@section[2]{%
  \ifnum \c@tocdepth >\z@
    \ifnum \lastpenalty<20009
      \addpenalty{\@secpenalty}%
    \fi
    \addvspace{1.0em \@plus\p@}%
    \setlength\@tempdima{1.5em}%
     \if@tocleft
      \ifx\toc@l@number\@empty\else
        \setlength\@tempdima{0\toc@l@number}%
      \fi
    \fi
   \begingroup
      \raggedsectionentry
      \parindent \z@ \advance\if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      \interlinepenalty\@M
      \leavevmode
      \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
      {\usekomafont{sectionentry}{#1\nobreak
        \usekomafont{sectionentrypagenumber}{%
          \hfill\nobreak
          \hb@xt@\@pnumwidth{\hss#2}}}}\par
    \endgroup
    \ifnum \scr@compatibility>\@nameuse{scr@v@2.96}\relax
      \penalty20008
    \fi
  \fi
}
\def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
\def\raggedpart{\if@RTL\raggedleft\else\raggedright\fi}
```

```
\renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
\renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
\renewcommand*{\thesubsubsection}{%
  \thesubsection\@SepMark\@arabic\c@subsubsection
}
\renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand*{\thesubparagraph}{%
  \theparagraph\@SepMark\@arabic\c@subparagraph
}
\renewenvironment{thebibliography}[1]{%
  \if@bib@break@
    \bib@beginhook
  \else
    \bib@heading
    \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
        \noindent\bibpreamble\par\nobreak
    \fi\fi
    \bib@beginhook
    \bib@before@hook
  \fi
  \renewcommand{\BreakBibliography}[1]{%
    \@bib@break
    \end{thebibliography}%
    \begingroup ##1\endgroup
    \begin{thebibliography}{#1}
  }%
  \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
  \list{%
    \@biblabel{\@arabic\c@enumiv}%
  }{%
    \settowidth\labelwidth{\@biblabel{#1}}%
    \leftmargin\labelwidth
    \advance\leftmargin\labelsep
    \@openbib@code
    \if@bib@break@
      \edef\@tempa{%
        \noexpand\usecounter{enumiv}%
        \noexpand\setcounter{enumiv}{\the\c@enumiv}%
      }\@tempa
      \no@bib@break
    \else
      \usecounter{enumiv}%
    \fi
    \let\p@enumiv\@empty
    \renewcommand*\theenumiv{\@arabic\c@enumiv}%
  }%
  \sloppy\clubpenalty4000 \widowpenalty4000
  \sfcode`\.=\@m
}{%
  \if@bib@break@
```

```
    \def\@noitemerr{%
      \@latex@warning{%
        \string\BreakBibliography\space at begin of ‘thebibliography’
        environment\MessageBreak
        or following \string\BreakBibliography}%
    }%
  \else
    \def\@noitemerr{%
      \@latex@warning{%
        Empty ‘thebibliography’ environment or
        \string\BreakBibliography\MessageBreak
        before end of ‘thebibliography’ environment}%
    }%
  \fi
  \endlist
  \if@bib@break@
  \else
    \bib@after@hook
    \let\bib@before@hook\@empty
    \let\bib@after@hook\@empty
  \fi
  \bib@endhook
}
\renewcommand*\left@footnoterule{%
  \kern-3\p@
  \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
  \hrule\@width.4\columnwidth
  \kern 2.6\p@}
\renewcommand*\right@footnoterule{%
  \hbox to \columnwidth
  {\beginR \vbox{%
  \kern-3\p@
  \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
  \hrule\@width.4\columnwidth
  \kern 2.6\p@}\hfil\endR}}
\renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
\renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
\renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
\renewcommand\marginline[1]{%
  \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\
}
\renewcommand{\@@makecaption}[3]{%
  \cap@margin
  \ifonelinecaptions
    \@tempcnta=\value{mpfootnote}\@tempcntb=\value{footnote}%
    \let\scr@tmp@footnotetext=\@footnotetext
    \let\@footnotetext=\@gobble
    \let\scr@tmp@LTRfootnotetext=\@LTRfootnotetext
    \let\@LTRfootnotetext=\@gobble
    \let\scr@tmp@RTLfootnotetext=\@RTLfootnotetext
```

```
  \let\@RTLfootnotetext=\@gobble
  \sbox\@tempboxa{%
    {\capfont{\strut\ignorespaces
      #1{{\caplabelfont{#2\captionformat}}}%
      #3\unskip\strut}}%
  }%
  \let\@footnotetext=\scr@tmp@footnotetext
  \let\scr@tmp@footnotetext=\undefined
  \let\@LTRfootnotetext=\scr@tmp@LTRfootnotetext
  \let\scr@tmp@LTRfootnotetext=\undefined
  \let\@RTLfootnotetext=\scr@tmp@RTLfootnotetext
  \let\scr@tmp@RTLfootnotetext=\undefined
  \setcounter{footnote}{\@tempcntb}%
  \setcounter{mpfootnote}{\@tempcnta}%
\else
  \sbox\@tempboxa{\hspace*{2\cap@width}}%
\fi
\begingroup%
  \setlength{\@tempdima}{\cap@width}%
  \ifdim \wd\@tempboxa >\@tempdima
    \hb@xt@\hsize{%
      \setbox\@tempboxa\vbox{\hsize=\cap@width
        \ifdofullc@p
          {\capfont{\@hangfrom{\scr@smashdp{\strut\ignorespaces
                #1{{\caplabelfont{#2\captionformat}}}}}%
            {#3\unskip\strut\par}}}%
        \else%
          \ifdim\cap@indent<\z@
            {\capfont{\strut\ignorespaces
              #1{{\caplabelfont{#2\captionformat\par}}}%
              \noindent\hspace*{-\cap@indent}#3\unskip\strut\par}}%
          \else%
            \if@capbreak
              {\capfont{\strut\ignorespaces
                #1{{\caplabelfont{#2\captionformat\par}}}%
                \noindent\@hangfrom{\hspace*{\cap@indent}}{#3\par}}}%
            \else
              {\capfont{\@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
                {\hspace{-\cap@indent}\scr@smashdp{\ignorespaces#1%
                  {{\caplabelfont{#2\captionformat}}}}#3\unskip\strut\par}}}%
            \fi
          \fi
        \fi
      }%
      \setlength{\@tempdima}{\ht\@tempboxa}%
      \addtolength{\@tempdima}{\dp\@tempboxa}%
      \addtolength{\@tempdima}{-\ht\strutbox}%
      \ht\@tempboxa\ht\strutbox
      \dp\@tempboxa\@tempdima
      \strut\cap@left
```

```
        \box\@tempboxa
        \cap@right\strut
      }%
    \else
      \global \@minipagefalse
      \sbox\@tempboxa{%
        {\capfont{\scr@smashdp{\strut\ignorespaces
          #1{{\caplabelfont{#2\captionformat}}}}%
          #3}}%
      }%
      {\capfont{\hb@xt@\hsize{\strut\cap@left\if@RTL\beginR\fi\box\@tempboxa\if@RTL\endR\fi\c
    \fi
  \endgroup
}
\renewcommand{\@makecaption}[2]{%
  \if@captionabove
    \vskip\belowcaptionskip
  \else
    \vskip\abovecaptionskip
  \fi
  \@@makecaption\@firstofone{#1}{#2}%
  \if@captionabove
    \vskip\abovecaptionskip
  \else
    \vskip\belowcaptionskip
  \fi
}
```

7.98 scrbook-xetex-bidi.def

```
\ProvidesFile{scrbook-xetex-bidi.def}[2012/01/01 v0.6 bidi adaptations for scrbook class for
\newcommand{\scr@saved@LTRfootnotetext}{}
\newcommand{\scr@saved@RTLfootnotetext}{}
\let\scr@saved@footnotetext\@footnotetext
\let\scr@saved@LTRfootnotetext\@LTRfootnotetext
\let\scr@saved@RTLfootnotetext\@RTLfootnotetext
\renewcommand{\@footnotetext}[1]{%
  \scr@saved@footnotetext{#1}%
  \csname FN@mf@prepare\endcsname
}
\renewcommand{\@LTRfootnotetext}[1]{%
  \scr@saved@LTRfootnotetext{#1}%
  \csname FN@mf@prepare\endcsname
}
\renewcommand{\@RTLfootnotetext}[1]{%
  \scr@saved@RTLfootnotetext{#1}%
  \csname FN@mf@prepare\endcsname
}
\renewcommand\deffootnote[4][]{%
  \long\def\@makefntext##1{%
```

```
    \setlength{\@tempdimc}{#3}%
    \def\@tempa{#1}\ifx\@tempa\@empty
      \@setpar{\@@par
        \@tempdima = \hsize
        \addtolength{\@tempdima}{-#2}%
        \if@RTL\parshape \@ne 0pt \@tempdima\else\parshape \@ne #2 \@tempdima\fi}%
    \else
      \addtolength{\@tempdimc}{#2}%
      \addtolength{\@tempdimc}{-#1}%
      \@setpar{\@@par
        \@tempdima = \hsize
        \addtolength{\@tempdima}{-#1}%
        \@tempdimb = \hsize
        \addtolength{\@tempdimb}{-#2}%
        \if@RTL\parshape \tw@ 0pt \@tempdima 0pt \@tempdimb\else\parshape \tw@ #1 \@tempdima
      }%
    \fi
    \par
    \parindent\@tempdimc\noindent
    \ftn@font\hbox to \z@{\hss\@@makefnmark}##1%
  }%
  \def\@@makefnmark{\hbox{\ftnm@font{#4}}}%
}
\deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
\renewcommand*\left@footnoterule{%
  \normalsize\ftn@rule@test@values
  \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
  \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
  {\usekomafont{footnoterule}{%
      \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
  \kern 2.6\p@}
\renewcommand*\right@footnoterule{%
  \hbox to \columnwidth
  {\beginR \vbox{\kern -3\p@
  \normalsize\ftn@rule@test@values
  \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
  \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
  {\usekomafont{footnoterule}{%
      \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
  \kern 2.6\p@}\hfil\endR}}
\renewcommand*\maketitle[1][1]{%
  \if@titlepage
    \begin{titlepage}
      \setcounter{page}{%
        #1%
      }%
      \let\footnotesize\small
      \let\right@footnoterule\relax
      \let\left@footnoterule\relax
      \let\textwidth@footnoterule\relax
```

```
    \let\footnote\thanks
    \let\LTRfootnote\LTRthanks
    \let\RTLfootnote\RTLthanks
    \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
    \let\@oldmakefnmark\@makefnmark
    \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
    \ifx\@extratitle\@empty \else
      \noindent\@extratitle\next@tpage\cleardoubleemptypage
      \thispagestyle{empty}%
    \fi
    \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
    \ifx\@titlehead\@empty \else
      \begin{minipage}[t]{\textwidth}%
      \@titlehead
      \end{minipage}\par
    \fi
    \null\vfill
    \begin{center}
      \ifx\@subject\@empty \else
        {\subject@font \@subject \par}%
        \vskip 3em
      \fi
      {\titlefont\huge \@title\par}%
      \vskip 1em
      {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
      \vskip 2em
      {\Large \lineskip 0.75em
        \begin{tabular}[t]{c}
          \@author
        \end{tabular}\par
      }%
      \vskip 1.5em
      {\Large \@date \par}%
      \vskip \z@ \@plus3fill
      {\Large \@publishers \par}%
      \vskip 3em
    \end{center}\par
    \@thanks
    \vfill\null
    \if@twoside\next@tpage
      \begin{minipage}[t]{\textwidth}
        \@uppertitleback
      \end{minipage}\par
      \vfill
      \begin{minipage}[b]{\textwidth}
        \@lowertitleback
      \end{minipage}
    \fi
    \ifx\@dedication\@empty \else
      \next@tpage\null\vfill
```

```
        {\centering \Large \@dedication \par}%
        \vskip \z@ \@plus3fill
        \if@twoside \next@tpage\cleardoubleemptypage \fi
      \fi
    \end{titlepage}
  \else
    \par
    \@tempcnta=%
    #1%
    \relax\ifnum\@tempcnta=1\else
      \ClassWarning{\KOMAClassName}{%
        Optional argument of \string\maketitle\space ignored
        at\MessageBreak
        notitlepage-mode%
      }%
    \fi
    \begingroup
      \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
      \let\@oldmakefnmark\@makefnmark
      \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}
      \if@twocolumn
        \ifnum \col@number=\@ne
          \@maketitle
        \else
          \twocolumn[\@maketitle]%
        \fi
      \else
        \newpage
        \global\@topnum\z@
        \@maketitle
      \fi
      \thispagestyle{\titlepagestyle}\@thanks
    \endgroup
  \fi
  \setcounter{footnote}{0}%
  \let\thanks\relax
  \let\LTRthanks\relax
  \let\RTLthanks\relax
  \let\maketitle\relax
  \let\@maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty
  \global\let\@title\@empty
  \global\let\@subtitle\@empty
  \global\let\@extratitle\@empty
  \global\let\@titlehead\@empty
  \global\let\@subject\@empty
  \global\let\@publishers\@empty
  \global\let\@uppertitleback\@empty
```

```
  \global\let\@lowertitleback\@empty
  \global\let\@dedication\@empty
  \global\let\author\relax
  \global\let\title\relax
  \global\let\extratitle\relax
  \global\let\titlehead\relax
  \global\let\subject\relax
  \global\let\publishers\relax
  \global\let\uppertitleback\relax
  \global\let\lowertitleback\relax
  \global\let\dedication\relax
  \global\let\date\relax
  \global\let\and\relax
}%
\renewcommand*{\@maketitle}{%
  \clearpage
  \let\footnote\thanks
  \let\LTRfootnote\LTRthanks
  \let\RTLfootnote\RTLthanks
  \ifx\@extratitle\@empty \else
    \noindent\@extratitle \next@tpage \if@twoside \null\next@tpage \fi
  \fi
  \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
  \ifx\@titlehead\@empty \else
    \begin{minipage}[t]{\textwidth}
      \@titlehead
    \end{minipage}\par
  \fi
  \null
  \vskip 2em%
  \begin{center}%
    \ifx\@subject\@empty \else
      {\subject@font \@subject \par}
      \vskip 1.5em
    \fi
    {\titlefont\huge \@title \par}%
    \vskip .5em
    {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
    \vskip 1em
    {\Large
      \lineskip .5em%
      \begin{tabular}[t]{c}
        \@author
      \end{tabular}\par
    }%
    \vskip 1em%
    {\Large \@date \par}%
    \vskip \z@ \@plus 1em
    {\Large \@publishers \par}
    \ifx\@dedication\@empty \else
```

```
      \vskip 2em
      {\Large \@dedication \par}
    \fi
  \end{center}%
  \par
  \vskip 2em
}%
\renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >-2\relax
    \addpenalty{-\@highpenalty}%
    \addvspace{2.25em \@plus\p@}%
    \setlength{\@tempdima}{2em}%
    \if@tocleft
      \ifx\toc@l@number\@empty\else
        \setlength\@tempdima{0\toc@l@number}%
      \fi
    \fi
    \begingroup
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      \leavevmode
      \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
      \hskip -\if@RTL\rightskip\else\leftskip\fi
      {\usekomafont{partentry}{#1\nobreak
        \usekomafont{partentrypagenumber}{\hfil\nobreak
          \hb@xt@\@pnumwidth{\hss#2}}}}\par
      \ifnum \scr@compatibility>\@nameuse{scr@v@2.96}\relax
      \endgroup
      \penalty20010
      \else
          \penalty\@highpenalty
      \endgroup
    \fi
  \fi
}\renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >-2\relax
    \addpenalty{-\@highpenalty}%
    \addvspace{2.25em \@plus\p@}%
    \setlength{\@tempdima}{2em}%
    \if@tocleft
      \ifx\toc@l@number\@empty\else
        \setlength\@tempdima{0\toc@l@number}%
      \fi
    \fi
    \begingroup
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      \leavevmode
      \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
      \hskip -\if@RTL\rightskip\else\leftskip\fi
```

```
      {\usekomafont{partentry}{#1\nobreak
        \usekomafont{partentrypagenumber}{\hfil\nobreak
          \hb@xt@\@pnumwidth{\hss#2}}}}\par
      \ifnum \scr@compatibility>\@nameuse{scr@v@2.96}\relax
      \endgroup
      \penalty20010
      \else
          \penalty\@highpenalty
      \endgroup
    \fi
  \fi
}
\renewcommand*\l@chapter[2]{%
  \ifnum \c@tocdepth >\m@ne
    \ifnum \lastpenalty<20010
      \addpenalty{-\@highpenalty}%
    \fi
    \vskip 1.0em \@plus\p@
    \setlength\@tempdima{1.5em}%
    \if@tocleft
      \ifx\toc@l@number\@empty\else
        \setlength\@tempdima{0\toc@l@number}%
      \fi
    \fi
    \begingroup
      \raggedchapterentry
      \parindent \z@ \advance\if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      \interlinepenalty\@M
      \leavevmode
      \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
      {\usekomafont{chapterentry}{#1\nobreak
        \usekomafont{chapterentrypagenumber}{%
          \hfill\nobreak
          \hb@xt@\@pnumwidth{\hss#2}}}}\par
      \ifnum \scr@compatibility>\@nameuse{scr@v@2.96}\relax
      \endgroup
      \penalty20009
      \else
        \penalty\@highpenalty
      \endgroup
    \fi
  \fi
}
\def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
\renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
\renewcommand*\thesection{%
  \ifnum \scr@compatibility>\@nameuse{scr@v@2.97d}\relax
    \if@mainmatter\thechapter\@SepMark\fi
  \else
```

```
  \thechapter\@SepMark%
  \fi
  \@arabic\c@section
}
\renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
\renewcommand*{\thesubsubsection}{%
  \thesubsection\@SepMark\@arabic\c@subsubsection
}
\renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand*{\thesubparagraph}{%
  \theparagraph\@SepMark\@arabic\c@subparagraph
}
\renewcommand*\thefigure{%
  \ifnum \scr@compatibility>\@nameuse{scr@v@2.97d}\relax
    \if@mainmatter\thechapter\@SepMark\fi
  \else
  \thechapter\@SepMark%
  \fi
  \@arabic\c@figure
}
\renewcommand*\thetable{%
  \ifnum \scr@compatibility>\@nameuse{scr@v@2.97d}\relax
    \if@mainmatter\thechapter\@SepMark\fi
  \else
  \thechapter\@SepMark%
  \fi
  \@arabic\c@table
}
\renewcommand*\theequation{%
  \ifnum \scr@compatibility>\@nameuse{scr@v@2.97d}\relax
    \if@mainmatter\thechapter\@SepMark\fi
  \else
  \thechapter\@SepMark%
  \fi
  \@arabic\c@equation
}
\renewenvironment{thebibliography}[1]{%
  \if@bib@break@
    \bib@beginhook
  \else
    \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
        \setchapterpreamble{\bibpreamble}%
    \fi\fi
    \bib@heading
    \bib@beginhook
    \bib@before@hook
  \fi
  \renewcommand{\BreakBibliography}[1]{%
    \@bib@break
    \end{thebibliography}%
```

```
    \begingroup ##1\endgroup
    \begin{thebibliography}{#1}
  }%
   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
  \list{%
    \@biblabel{\@arabic\c@enumiv}%
  }{%
    \settowidth\labelwidth{\@biblabel{#1}}%
    \leftmargin\labelwidth
    \advance\leftmargin\labelsep
    \@openbib@code
    \if@bib@break@
      \edef\@tempa{%
        \noexpand\usecounter{enumiv}%
        \noexpand\setcounter{enumiv}{\the\c@enumiv}%
      }\@tempa
      \no@bib@break
    \else
      \usecounter{enumiv}%
    \fi
    \let\p@enumiv\@empty
    \renewcommand*\theenumiv{\@arabic\c@enumiv}%
  }%
  \sloppy\clubpenalty4000 \widowpenalty4000
  \sfcode`\.=\@m
}{%
  \if@bib@break@
    \def\@noitemerr{%
      \@latex@warning{%
        \string\BreakBibliography\space at begin of `thebibliography'
        environment\MessageBreak
        or following \string\BreakBibliography}%
    }%
  \else
    \def\@noitemerr{%
      \@latex@warning{%
        Empty `thebibliography' environment or
        \string\BreakBibliography\MessageBreak
        before end of `thebibliography' environment}%
    }%
  \fi
  \endlist
  \if@bib@break@
  \else
    \bib@after@hook
    \let\bib@before@hook\@empty
    \let\bib@after@hook\@empty
  \fi
  \bib@endhook
}
```

```
\renewcommand*\left@footnoterule{%
  \kern-3\p@
  \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
  \hrule\@width.4\columnwidth
  \kern 2.6\p@}
\renewcommand*\right@footnoterule{%
  \hbox to \columnwidth
  {\beginR \vbox{%
  \kern-3\p@
  \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
  \hrule\@width.4\columnwidth
  \kern 2.6\p@}\hfil\endR}}
\renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
\renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
\renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
\renewcommand\marginline[1]{%
  \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\
}
\renewcommand{\@@makecaption}[3]{%
  \cap@margin
  \ifonelinecaptions
    \@tempcnta=\value{mpfootnote}\@tempcntb=\value{footnote}%
    \let\scr@tmp@footnotetext=\@footnotetext
    \let\@footnotetext=\@gobble
    \let\scr@tmp@LTRfootnotetext=\@LTRfootnotetext
    \let\@LTRfootnotetext=\@gobble
    \let\scr@tmp@RTLfootnotetext=\@RTLfootnotetext
    \let\@RTLfootnotetext=\@gobble
    \sbox\@tempboxa{%
      {\capfont{\strut\ignorespaces
        #1{{\caplabelfont{#2\captionformat}}}%
        #3\unskip\strut}}%
    }%
    \let\@footnotetext=\scr@tmp@footnotetext
    \let\scr@tmp@footnotetext=\undefined
    \let\@LTRfootnotetext=\scr@tmp@LTRfootnotetext
    \let\scr@tmp@LTRfootnotetext=\undefined
    \let\@RTLfootnotetext=\scr@tmp@RTLfootnotetext
    \let\scr@tmp@RTLfootnotetext=\undefined
    \setcounter{footnote}{\@tempcntb}%
    \setcounter{mpfootnote}{\@tempcnta}%
  \else
    \sbox\@tempboxa{\hspace*{2\cap@width}}%
  \fi
  \begingroup%
    \setlength{\@tempdima}{\cap@width}%
    \ifdim \wd\@tempboxa >\@tempdima
      \hb@xt@\hsize{%
        \setbox\@tempboxa\vbox{\hsize=\cap@width
          \ifdofullc@p
```

```
            {\capfont{\@hangfrom{\scr@smashdp{\strut\ignorespaces
                  #1{{\caplabelfont{#2\captionformat}}}}}%
              {#3\unskip\strut\par}}}%
          \else%
            \ifdim\cap@indent<\z@
              {\capfont{\strut\ignorespaces
                #1{{\caplabelfont{#2\captionformat\par}}}%
                \noindent\hspace*{-\cap@indent}#3\unskip\strut\par}}%
            \else%
              \if@capbreak
                {\capfont{\strut\ignorespaces
                  #1{{\caplabelfont{#2\captionformat\par}}}%
                  \noindent\@hangfrom{\hspace*{\cap@indent}}{#3\par}}}%
              \else
                {\capfont{\@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
                  {\hspace{-\cap@indent}\scr@smashdp{\ignorespaces#1%
                    {{\caplabelfont{#2\captionformat}}}}#3\unskip\strut\par}}}%
              \fi
            \fi
          \fi
        }%
        \setlength{\@tempdima}{\ht\@tempboxa}%
        \addtolength{\@tempdima}{\dp\@tempboxa}%
        \addtolength{\@tempdima}{-\ht\strutbox}%
        \ht\@tempboxa\ht\strutbox
        \dp\@tempboxa\@tempdima
        \strut\cap@left
        \box\@tempboxa
        \cap@right\strut
      }%
    \else
      \global \@minipagefalse
      \sbox\@tempboxa{%
        {\capfont{\scr@smashdp{\strut\ignorespaces
          #1{{\caplabelfont{#2\captionformat}}}}%
          #3}}%
      }%
      {\capfont{\hb@xt@\hsize{\strut\cap@left\if@RTL\beginR\fi\box\@tempboxa\if@RTL\endR\fi\c
    \fi
  \endgroup
}
\renewcommand{\@makecaption}[2]{%
  \if@captionabove
    \vskip\belowcaptionskip
  \else
    \vskip\abovecaptionskip
  \fi
  \@@makecaption\@firstofone{#1}{#2}%
  \if@captionabove
    \vskip\abovecaptionskip
```

```
  \else
    \vskip\belowcaptionskip
  \fi
}
```

7.99 scrlettr-xetex-bidi.def

```
\ProvidesFile{scrlettr-xetex-bidi.def}[2011/09/24 v0.2 bidi adaptations for scrlettr class fo
\renewcommand\deffootnote[4][]{%
  \long\def\@makefntext##1{%
    \edef\@tempa{#1}\ifx\@tempa\@empty
      \@setpar{\@@par
        \@tempdima = \hsize
        \addtolength{\@tempdima}{-#2}
        \if@RTL\parshape \@ne 0pt \@tempdima\else\parshape \@ne #2 \@tempdima\fi}%
    \else
      \@setpar{\@@par
        \@tempdima = \hsize
        \addtolength{\@tempdima}{-#1}
        \@tempdimb = \hsize
        \addtolength{\@tempdimb}{-#2}
        \if@RTL\parshape \tw@ 0pt \@tempdima 0pt \@tempdimb\else\parshape \tw@ #1 \@tempdima
    \fi
    \par
    \parindent #3\noindent
    \hbox to \z@{\hss\@@makefnmark}##1}
  \def\@@makefnmark{\hbox{#4}}
}
\deffootnote[1em]{1.5em}{1em}
  {\textsuperscript{\thefootnotemark}}
\def\left@footnoterule{\kern-1\p@
 \hrule width 0.4\columnwidth
 \kern .6\p@}
\def\right@footnoterule{%
 \hbox to \columnwidth
 {\beginR \vbox{\kern -3\p@
 \kern-1\p@
 \hrule width 0.4\columnwidth
 \kern .6\p@}\hfil\endR}}
\def\@datefield{\@reffalse
 \ifx\varyourref\@empty \else \@reftrue \fi
 \ifx\varyourmail\@empty \else \@reftrue \fi
 \ifx\varmyref\@empty \else \@reftrue \fi
 \ifx\varcustomer\@empty \else \@reftrue \fi
 \ifx\varinvoice\@empty \else \@reftrue \fi
 \ifx\varrefitemi\@empty \else \@reftrue \fi
 \ifx\varrefitemii\@empty \else \@reftrue \fi
 \ifx\varrefitemiii\@empty \else \@reftrue \fi
 \vskip -\parskip
 \vskip \refvskip
```

```
\if@ref
 \ifx\varyourref\@empty \else
  \settowidth{\sc@temp}{\varyourref}
  \setbox0\hbox{\scriptsize \sf \yourrefname}
  \ifdim \sc@temp > \wd0 \sc@@temp\sc@temp \else \sc@@temp\wd0 \fi
  \parbox[t]{\sc@@temp}{\noindent \box0\par \varyourref}\hfill
 \fi
 \ifx\varyourmail\@empty \else
  \settowidth{\sc@temp}{\varyourmail}
  \setbox0\hbox{\scriptsize \sf \yourmailname}
  \ifdim \sc@temp > \wd0 \sc@@temp\sc@temp \else \sc@@temp\wd0 \fi
  \parbox[t]{\sc@@temp}{\noindent \box0\par \varyourmail}\hfill
 \fi
 \ifx\varmyref\@empty \else
  \settowidth{\sc@temp}{\varmyref}
  \setbox0\hbox{\scriptsize \sf \myrefname}
  \ifdim \sc@temp > \wd0 \sc@@temp\sc@temp \else \sc@@temp\wd0 \fi
  \parbox[t]{\sc@@temp}{\noindent \box0\par \varmyref}\hfill
 \fi
 \ifx\varcustomer\@empty \else
  \settowidth{\sc@temp}{\varcustomer}
  \setbox0\hbox{\scriptsize \sf \customername}
  \ifdim \sc@temp > \wd0 \sc@@temp\sc@temp \else \sc@@temp\wd0 \fi
  \parbox[t]{\sc@@temp}{\noindent \box0\par \varcustomer}\hfill
 \fi
 \ifx\varinvoice\@empty \else
  \settowidth{\sc@temp}{\varinvoice}
  \setbox0\hbox{\scriptsize \sf \invoicename}
  \ifdim \sc@temp > \wd0 \sc@@temp\sc@temp \else \sc@@temp\wd0 \fi
  \parbox[t]{\sc@@temp}{\noindent \box0\par \varinvoice}\hfill
 \fi
 \ifx\varrefitemi\@empty \else
  \settowidth{\sc@temp}{\varrefitemi}
  \setbox0\hbox{\scriptsize \sf \varrefitemnamei}
  \ifdim \sc@temp > \wd0 \sc@@temp\sc@temp \else \sc@@temp\wd0 \fi
  \parbox[t]{\sc@@temp}{\noindent \box0\par \varrefitemi}\hfill
 \fi
 \ifx\varrefitemii\@empty \else
  \settowidth{\sc@temp}{\varrefitemii}
  \setbox0\hbox{\scriptsize \sf \varrefitemnameii}
  \ifdim \sc@temp > \wd0 \sc@@temp\sc@temp \else \sc@@temp\wd0 \fi
  \parbox[t]{\sc@@temp}{\noindent \box0\par \varrefitemii}\hfill
 \fi
 \ifx\varrefitemiii\@empty \else
  \settowidth{\sc@temp}{\varrefitemiii}
  \setbox0\hbox{\scriptsize \sf \varrefitemnameiii}
  \ifdim \sc@temp > \wd0 \sc@@temp\sc@temp \else \sc@@temp\wd0 \fi
  \parbox[t]{\sc@@temp}{\noindent \box0\par \varrefitemiii}\hfill
 \fi
 \ifx\@date\@empty \else
```

```
   \settowidth{\sc@temp}{\@date}
   \setbox0\hbox{\scriptsize \sf \datename}
   \ifdim \sc@temp > \wd0 \sc@@temp\sc@temp \else \sc@@temp\wd0 \fi
   \parbox[t]{\sc@@temp}{\noindent \box0\par \@date}
  \fi
  \par
  \vspace{2.5\baselineskip}
 \else
  {\ifx\@date\@empty \else \if@RTL\raggedright\else\raggedleft\fi\fromplace\ \@date\par \fi}
  \vspace{1.5\baselineskip}
 \fi}
\long\def\closing#1{\par\nobreak\vspace{0.5\baselineskip}
 \stopbreaks \noindent \sc@temp\textwidth \advance\sc@temp by
 -\sigindent \hspace{\sigindent}%
 \parbox{\sc@temp}{\if@RTL\raggedleft\else\raggedright\fi\ignorespaces #1\mbox{}\\[\presig@sk
 \fromsig\strut}\par
 \vspace{1.5\baselineskip}}
```

7.100 scrreprt-xetex-bidi.def

```
\ProvidesFile{scrreprt-xetex-bidi.def}[2012/01/01 v0.6 bidi adaptations for scrreprt class fo
\newcommand{\scr@saved@LTRfootnotetext}{}
\newcommand{\scr@saved@RTLfootnotetext}{}
\let\scr@saved@footnotetext\@footnotetext
\let\scr@saved@LTRfootnotetext\@LTRfootnotetext
\let\scr@saved@RTLfootnotetext\@RTLfootnotetext
\renewcommand{\@footnotetext}[1]{%
  \scr@saved@footnotetext{#1}%
  \csname FN@mf@prepare\endcsname
}
\renewcommand{\@LTRfootnotetext}[1]{%
  \scr@saved@LTRfootnotetext{#1}%
  \csname FN@mf@prepare\endcsname
}
\renewcommand{\@RTLfootnotetext}[1]{%
  \scr@saved@RTLfootnotetext{#1}%
  \csname FN@mf@prepare\endcsname
}
\renewcommand\deffootnote[4][]{%
  \long\def\@makefntext##1{%
    \setlength{\@tempdimc}{#3}%
    \def\@tempa{#1}\ifx\@tempa\@empty
      \@setpar{\@@par
        \@tempdima = \hsize
        \addtolength{\@tempdima}{-#2}%
        \if@RTL\parshape \@ne 0pt \@tempdima\else\parshape \@ne #2 \@tempdima\fi}%
    \else
      \addtolength{\@tempdimc}{#2}%
      \addtolength{\@tempdimc}{-#1}%
      \@setpar{\@@par
```

```
        \@tempdima = \hsize
        \addtolength{\@tempdima}{-#1}%
        \@tempdimb = \hsize
        \addtolength{\@tempdimb}{-#2}%
        \if@RTL\parshape \tw@ 0pt \@tempdima 0pt \@tempdimb\else\parshape \tw@ #1 \@tempdima
      }%
    \fi
    \par
    \parindent\@tempdimc\noindent
    \ftn@font\hbox to \z@{\hss\@@makefnmark}##1%
  }%
  \def\@@makefnmark{\hbox{\ftnm@font{#4}}}%
}
\deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
\renewcommand*\left@footnoterule{%
  \normalsize\ftn@rule@test@values
  \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
  \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
  {\usekomafont{footnoterule}{%
      \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
  \kern 2.6\p@}
\renewcommand*\right@footnoterule{%
  \hbox to \columnwidth
  {\beginR \vbox{\kern -3\p@
  \normalsize\ftn@rule@test@values
  \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
  \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
  {\usekomafont{footnoterule}{%
      \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
  \kern 2.6\p@}\hfil\endR}}
\renewcommand*\maketitle[1][1]{%
  \if@titlepage
    \begin{titlepage}
      \setcounter{page}{%
        #1%
      }%
      \let\footnotesize\small
      \let\right@footnoterule\relax
      \let\left@footnoterule\relax
      \let\textwidth@footnoterule\relax
      \let\footnote\thanks
      \let\LTRfootnote\LTRthanks
      \let\RTLfootnote\RTLthanks
      \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
      \let\@oldmakefnmark\@makefnmark
      \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
      \ifx\@extratitle\@empty \else
        \noindent\@extratitle\next@tpage\cleardoubleemptypage
        \thispagestyle{empty}%
      \fi
```

```
    \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
    \ifx\@titlehead\@empty \else
      \begin{minipage}[t]{\textwidth}%
      \@titlehead
      \end{minipage}\par
    \fi
    \null\vfill
    \begin{center}
      \ifx\@subject\@empty \else
        {\subject@font \@subject \par}%
        \vskip 3em
      \fi
      {\titlefont\huge \@title\par}%
      \vskip 1em
      {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
      \vskip 2em
      {\Large \lineskip 0.75em
        \begin{tabular}[t]{c}
          \@author
        \end{tabular}\par
      }%
      \vskip 1.5em
      {\Large \@date \par}%
      \vskip \z@ \@plus3fill
      {\Large \@publishers \par}%
      \vskip 3em
    \end{center}\par
    \@thanks
    \vfill\null
    \if@twoside\next@tpage
      \begin{minipage}[t]{\textwidth}
        \@uppertitleback
      \end{minipage}\par
      \vfill
      \begin{minipage}[b]{\textwidth}
        \@lowertitleback
      \end{minipage}
    \fi
    \ifx\@dedication\@empty \else
      \next@tpage\null\vfill
      {\centering \Large \@dedication \par}%
      \vskip \z@ \@plus3fill
      \if@twoside \next@tpage\cleardoubleemptypage \fi
    \fi
  \end{titlepage}
\else
  \par
  \@tempcnta=%
  #1%
  \relax\ifnum\@tempcnta=1\else
```

```
      \ClassWarning{\KOMAClassName}{%
        Optional argument of \string\maketitle\space ignored
        at\MessageBreak
        notitlepage-mode%
      }%
    \fi
    \begingroup
      \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
      \let\@oldmakefnmark\@makefnmark
      \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}
      \if@twocolumn
        \ifnum \col@number=\@ne
          \@maketitle
        \else
          \twocolumn[\@maketitle]%
        \fi
      \else
        \newpage
        \global\@topnum\z@
        \@maketitle
      \fi
      \thispagestyle{\titlepagestyle}\@thanks
    \endgroup
  \fi
  \setcounter{footnote}{0}%
  \let\thanks\relax
  \let\LTRthanks\relax
  \let\RTLthanks\relax
  \let\maketitle\relax
  \let\@maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty
  \global\let\@title\@empty
  \global\let\@subtitle\@empty
  \global\let\@extratitle\@empty
  \global\let\@titlehead\@empty
  \global\let\@subject\@empty
  \global\let\@publishers\@empty
  \global\let\@uppertitleback\@empty
  \global\let\@lowertitleback\@empty
  \global\let\@dedication\@empty
  \global\let\author\relax
  \global\let\title\relax
  \global\let\extratitle\relax
  \global\let\titlehead\relax
  \global\let\subject\relax
  \global\let\publishers\relax
  \global\let\uppertitleback\relax
  \global\let\lowertitleback\relax
```

```
  \global\let\dedication\relax
  \global\let\date\relax
  \global\let\and\relax
}%
\renewcommand*{\@maketitle}{%
  \clearpage
  \let\footnote\thanks
  \let\LTRfootnote\LTRthanks
  \let\RTLfootnote\RTLthanks
  \ifx\@extratitle\@empty \else
    \noindent\@extratitle \next@tpage \if@twoside \null\next@tpage \fi
  \fi
  \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
  \ifx\@titlehead\@empty \else
    \begin{minipage}[t]{\textwidth}
      \@titlehead
    \end{minipage}\par
  \fi
  \null
  \vskip 2em%
  \begin{center}%
    \ifx\@subject\@empty \else
      {\subject@font \@subject \par}
      \vskip 1.5em
    \fi
    {\titlefont\huge \@title \par}%
    \vskip .5em
    {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
    \vskip 1em
    {\Large
      \lineskip .5em%
      \begin{tabular}[t]{c}
        \@author
      \end{tabular}\par
    }%
    \vskip 1em%
    {\Large \@date \par}%
    \vskip \z@ \@plus 1em
    {\Large \@publishers \par}
    \ifx\@dedication\@empty \else
      \vskip 2em
      {\Large \@dedication \par}
    \fi
  \end{center}%
  \par
  \vskip 2em
}%
\renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >-2\relax
    \addpenalty{-\@highpenalty}%
```

```
    \addvspace{2.25em \@plus\p@}%
    \setlength{\@tempdima}{2em}%
    \if@tocleft
      \ifx\toc@l@number\@empty\else
        \setlength\@tempdima{0\toc@l@number}%
      \fi
    \fi
    \begingroup
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      \leavevmode
      \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
      \hskip -\if@RTL\rightskip\else\leftskip\fi
      {\usekomafont{partentry}{#1\nobreak
        \usekomafont{partentrypagenumber}{\hfil\nobreak
          \hb@xt@\@pnumwidth{\hss#2}}}}\par
      \ifnum \scr@compatibility>\@nameuse{scr@v@2.96}\relax
      \endgroup
      \penalty20010
      \else
          \penalty\@highpenalty
      \endgroup
    \fi
  \fi
}
\renewcommand*\l@chapter[2]{%
  \ifnum \c@tocdepth >\m@ne
    \ifnum \lastpenalty<20010
      \addpenalty{-\@highpenalty}%
    \fi
    \vskip 1.0em \@plus\p@
    \setlength\@tempdima{1.5em}%
    \if@tocleft
      \ifx\toc@l@number\@empty\else
        \setlength\@tempdima{0\toc@l@number}%
      \fi
    \fi
    \begingroup
      \raggedchapterentry
      \parindent \z@ \advance\if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      \interlinepenalty\@M
      \leavevmode
      \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
      {\usekomafont{chapterentry}{#1\nobreak
        \usekomafont{chapterentrypagenumber}{%
          \hfill\nobreak
          \hb@xt@\@pnumwidth{\hss#2}}}}\par
      \ifnum \scr@compatibility>\@nameuse{scr@v@2.96}\relax
      \endgroup
```

```
      \penalty20009
      \else
        \penalty\@highpenalty
      \endgroup
    \fi
  \fi
}
\def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
\renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
\renewcommand*\thesection{%
  \thechapter\@SepMark%
  \@arabic\c@section
}
\renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
\renewcommand*{\thesubsubsection}{%
  \thesubsection\@SepMark\@arabic\c@subsubsection
}
\renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand*{\thesubparagraph}{%
  \theparagraph\@SepMark\@arabic\c@subparagraph
}
\renewcommand*\thefigure{%
  \thechapter\@SepMark%
  \@arabic\c@figure
}
\renewcommand*\thetable{%
  \thechapter\@SepMark%
  \@arabic\c@table
}
\renewcommand*\theequation{%
  \thechapter\@SepMark%
  \@arabic\c@equation
}
\renewenvironment{thebibliography}[1]{%
  \if@bib@break@
    \bib@beginhook
  \else
    \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
        \setchapterpreamble{\bibpreamble}%
    \fi\fi
    \bib@heading
    \bib@beginhook
    \bib@before@hook
  \fi
  \renewcommand{\BreakBibliography}[1]{%
    \@bib@break
    \end{thebibliography}%
    \begingroup ##1\endgroup
    \begin{thebibliography}{#1}
  }%
```

```
  \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
  \list{%
    \@biblabel{\@arabic\c@enumiv}%
  }{%
    \settowidth\labelwidth{\@biblabel{#1}}%
    \leftmargin\labelwidth
    \advance\leftmargin\labelsep
    \@openbib@code
    \if@bib@break@
      \edef\@tempa{%
        \noexpand\usecounter{enumiv}%
        \noexpand\setcounter{enumiv}{\the\c@enumiv}%
      }\@tempa
      \no@bib@break
    \else
      \usecounter{enumiv}%
    \fi
    \let\p@enumiv\@empty
    \renewcommand*\theenumiv{\@arabic\c@enumiv}%
  }%
  \sloppy\clubpenalty4000 \widowpenalty4000
  \sfcode`\.=\@m
}{%
  \if@bib@break@
    \def\@noitemerr{%
      \@latex@warning{%
        \string\BreakBibliography\space at begin of `thebibliography'
        environment\MessageBreak
        or following \string\BreakBibliography}%
    }%
  \else
    \def\@noitemerr{%
      \@latex@warning{%
        Empty `thebibliography' environment or
        \string\BreakBibliography\MessageBreak
        before end of `thebibliography' environment}%
    }%
  \fi
  \endlist
  \if@bib@break@
  \else
    \bib@after@hook
    \let\bib@before@hook\@empty
    \let\bib@after@hook\@empty
  \fi
  \bib@endhook
}
\renewcommand*\left@footnoterule{%
  \kern-3\p@
  \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
```

```
  \hrule\@width.4\columnwidth
  \kern 2.6\p@}
\renewcommand*\right@footnoterule{%
  \hbox to \columnwidth
  {\beginR \vbox{%
  \kern-3\p@
  \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
  \hrule\@width.4\columnwidth
  \kern 2.6\p@}\hfil\endR}}
\renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
\renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
\renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
\renewcommand\marginline[1]{%
  \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\
}
\renewcommand{\@@makecaption}[3]{%
  \cap@margin
  \ifonelinecaptions
    \@tempcnta=\value{mpfootnote}\@tempcntb=\value{footnote}%
    \let\scr@tmp@footnotetext=\@footnotetext
    \let\@footnotetext=\@gobble
    \let\scr@tmp@LTRfootnotetext=\@LTRfootnotetext
    \let\@LTRfootnotetext=\@gobble
    \let\scr@tmp@RTLfootnotetext=\@RTLfootnotetext
    \let\@RTLfootnotetext=\@gobble
    \sbox\@tempboxa{%
      {\capfont{\strut\ignorespaces
        #1{{\caplabelfont{#2\captionformat}}}%
        #3\unskip\strut}}%
    }%
    \let\@footnotetext=\scr@tmp@footnotetext
    \let\scr@tmp@footnotetext=\undefined
    \let\@LTRfootnotetext=\scr@tmp@LTRfootnotetext
    \let\scr@tmp@LTRfootnotetext=\undefined
   \let\@RTLfootnotetext=\scr@tmp@RTLfootnotetext
    \let\scr@tmp@RTLfootnotetext=\undefined
    \setcounter{footnote}{\@tempcntb}%
    \setcounter{mpfootnote}{\@tempcnta}%
  \else
    \sbox\@tempboxa{\hspace*{2\cap@width}}%
  \fi
  \begingroup%
    \setlength{\@tempdima}{\cap@width}%
    \ifdim \wd\@tempboxa >\@tempdima
      \hb@xt@\hsize{%
        \setbox\@tempboxa\vbox{\hsize=\cap@width
          \ifdofullc@p
            {\capfont{\@hangfrom{\scr@smashdp{\strut\ignorespaces
                  #1{{\caplabelfont{#2\captionformat}}}}}}%
              {#3\unskip\strut\par}}}%
```

```
          \else%
            \ifdim\cap@indent<\z@
              {\capfont{\strut\ignorespaces
                #1{{\caplabelfont{#2\captionformat\par}}}%
                \noindent\hspace*{-\cap@indent}#3\unskip\strut\par}}%
            \else%
              \if@capbreak
                {\capfont{\strut\ignorespaces
                  #1{{\caplabelfont{#2\captionformat\par}}}%
                  \noindent\@hangfrom{\hspace*{\cap@indent}}{#3\par}}}%
              \else
                {\capfont{\@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
                  {\hspace{-\cap@indent}\scr@smashdp{\ignorespaces#1%
                    {{\caplabelfont{#2\captionformat}}}}#3\unskip\strut\par}}}%
              \fi
            \fi
          \fi
        }%
        \setlength{\@tempdima}{\ht\@tempboxa}%
        \addtolength{\@tempdima}{\dp\@tempboxa}%
        \addtolength{\@tempdima}{-\ht\strutbox}%
        \ht\@tempboxa\ht\strutbox
        \dp\@tempboxa\@tempdima
        \strut\cap@left
        \box\@tempboxa
        \cap@right\strut
      }%
    \else
      \global \@minipagefalse
      \sbox\@tempboxa{%
        {\capfont{\scr@smashdp{\strut\ignorespaces
          #1{{\caplabelfont{#2\captionformat}}}}%
          #3}}%
      }%
      {\capfont{\hb@xt@\hsize{\strut\cap@left\if@RTL\beginR\fi\box\@tempboxa\if@RTL\endR\fi\c
    \fi
  \endgroup
}
\renewcommand{\@makecaption}[2]{%
  \if@captionabove
    \vskip\belowcaptionskip
  \else
    \vskip\abovecaptionskip
  \fi
  \@@makecaption\@firstofone{#1}{#2}%
  \if@captionabove
    \vskip\abovecaptionskip
  \else
    \vskip\belowcaptionskip
  \fi
```

```
}
```

7.101 sidecap-xetex-bidi.def

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

7.102 stabular-xetex-bidi.def

```
\ProvidesFile{stabular-xetex-bidi.def}[2010/08/01 v0.2 bidi adaptations for stabular package
\def\@stabular{\if@RTL\@RTLtabtrue\fi
   \leavevmode \bgroup \if@RTLtab\beginR \fi
   \let\@acol\@tabacol
   \let\@classz\@tabclassz
   \let\@classiv\@tabclassiv \let\\\@tabularcr\@stabarray}
\def\endstabular{\crcr\egroup\if@RTLtab\egroup\endR\egroup\fi
                 \egroup \if@RTLtab\endR\fi\egroup
                 \@RTLtabfalse}
\expandafter \let \csname endstabular*\endcsname = \endstabular
\def\@sarray[#1]#2{%
  \bgroup
  \setbox\@arstrutbox\hbox{%
    \vrule \@height\arraystretch\ht\strutbox
           \@depth\arraystretch \dp\strutbox
           \@width\z@}%
  \@mkpream{#2}%
  \edef\@preamble{%
    \ialign \noexpand\@halignto
      \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
  \let\@startpbox\@@startpbox \let\@endpbox\@@endpbox
  \let\tabularnewline\\%
    \let\@sharp##%
    \set@typeset@protect
    \lineskip\z@skip\baselineskip\z@skip
  \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
    \@preamble}
```

7.103 subfigure-xetex-bidi.def

```
\ProvidesFile{subfigure-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for subfigure packag
\AtBeginDocument{%
\let\p@subfigure=\thefigure
\let\p@subtable=\thetable%
}
```

7.104 tabls-xetex-bidi.def

```
\ProvidesFile{tabls-xetex-bidi.def}[2010/08/01 v0.2 bidi adaptations for tabls package for Xe
```

```
\def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup
                 \@RTLtabfalse}

\expandafter\let\csname endtabular*\endcsname=\endtabular

\def\endarray{\ifvmode\csname crcr\endcsname % just do \crcr if \\ given
  \else \\[\z@ \global\advance\@arstdepth-\@otarlinesep]%
  \fi\egroup\if@RTLtab\egroup\endR\egroup\fi\@unrecurse\egroup}

\def\@array[#1]#2{%  remember global variables to allow recursion:
 \edef\@unrecurse{\global\@skip@bove\the\@skip@bove
     \global\@arstheight\the\@arstheight\global\@arstdepth\the\@arstdepth}%
 \let\@otarlinesep\@tarlinesep \global\@skip@bove-\@otarlinesep
 \ifx\@classz\@arrayclassz \let\@tarlinesep\arraylinesep
 \else \let\@tarlinesep\tablinesep \fi
 \divide\@tarlinesep\tw@ % half sep is applied to height & depth
 \let\@seesize\relax \let\@rememsize\relax \@mkpream{#2}%
 \@tempdima\arraystretch\ht\strutbox \@tempdimb\arraystretch\dp\strutbox
 \ifdim\@tarlinesep>\z@ % (need \protect for \multicolumn)
   \def\@rememsize{\protect\@r@m@msize}\let\@seesize\@s@@size
   \advance\@tempdima-\@tarlinesep \advance\@tempdimb-\@tarlinesep
 \fi \setbox\@arstrutbox\hbox{% set up smaller strut
    \vrule \@height\@tempdima \@depth\@tempdimb \@width\z@}%
 \let\protect\noexpand
 \edef\@preamble{\ialign \noexpand\@halignto \bgroup
 \unhcopy\@arstrutbox \@preamble \tabskip\z@skip &\@sharp \cr}%
 \let\@startpbox\@@startpbox \let\@endpbox\@@endpbox
 \if#1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
 \bgroup \let\par\@empty
 \global\@arstheight\ht\@arstrutbox \global\@arstdepth\dp\@arstrutbox
 \advance\extrarulesep.5\arrayrulewidth
 \let\@sharp##\let\protect\relax \lineskip\z@skip \baselineskip\z@skip
 \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
 \@preamble}
```

7.105 tabulary-xetex-bidi.def

```
\ProvidesFile{tabulary-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tabulary package
\def\@testpach{\@chclass
 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
  \ifnum \@lastchclass=7 5 \else
   \ifnum \@lastchclass=8 \tw@ \else
    \ifnum \@lastchclass=9 \thr@@
   \else \z@
   \ifnum \@lastchclass = 10 \else
   \edef\@nextchar{\expandafter\string\@nextchar}%
   \@chnum
   \if \@nextchar c\z@ \else
    \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
     \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
```

```
  \if \@nextchar C7 \else
   \if \@nextchar L8 \else
    \if \@nextchar R9 \else
    \if \@nextchar J10 \else
  \z@ \@chclass
  \if\@nextchar |\@ne \else
   \if \@nextchar !6 \else
    \if \@nextchar @7 \else
     \if \@nextchar <8 \else
      \if \@nextchar >9 \else
 10
 \@chnum
 \if \@nextchar m\thr@@\else
  \if \@nextchar p4 \else
   \if \@nextchar b5 \else
  \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi\fi \fi \fi\fi \fi
    \fi  \fi  \fi  \fi  \fi  \fi \fi \fi \fi \fi \fi}
```

7.106 titlesec-xetex-bidi.def

```
\ProvidesFile{titlesec-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for titlesec package
\renewcommand\filright{%
  \gdef\ttl@filleft##1{\hskip##1}%
  \gdef\ttl@filright##1{\hfill}%
  \let\\\@centercr
  \advance\rightskip\z@ \@plus 1fil
\parfillskip\z@}
\def\ttlh@hang#1#2#3#4#5#6#7#8{%
  \gdef\ttl@makeline##1{\ttl@calc\hspace{#6}##1\ttl@calc\hspace{#7}}%
  \setlength\leftskip{#6}%
  \setlength\rightskip{#7}%
  \interlinepenalty\@M
  \ttl@changecentercr
  \ttl@beginlongest
  #1{\ifhmode\ttl@hmode@error\fi
     \ttl@glcmds
     \parindent\z@
     \leavevmode
     \begingroup
       \ifttl@label
          \sbox\z@{#2\strut\ttl@calc\hspace{#3}}%
          \if@RTL\advance\rightskip\wd\z@\else\advance\leftskip\wd\z@\fi
          \llap{\box\z@}%
       \fi
       #4{#8}%
       \kern\z@\strut\@@par
     \endgroup
     \nobreak\ttl@midlongest#5\@@par}%
  \ttl@endlongest}
```

7.107 titletoc-xetex-bidi.def

```
\ProvidesFile{titletoc-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for titletoc package
\renewcommand\filright{%
  \gdef\ttl@filleft##1{\hskip##1}%
  \gdef\ttl@filright##1{\hfill}%
  \let\\\@centercr
  \advance\rightskip\z@ \@plus 1fil
\parfillskip\z@}
\renewcommand\contentspush[1]{%
  \sbox\z@{#1}%
  \xdef\ttl@b{\advance\if@RTL\rightskip\else\leftskip\fi\the\wd\z@}%
  \aftergroup\ttl@b
  \leavevmode\llap{\box\z@}}
\def\ttl@outnoblock#1#2#3{%
  \begingroup
  \ifnum\ttl@b>\ttl@a
    \nobreak
  \else\ifnum\ttl@b<\ttl@a
    \addpenalty{\@secpenalty}%
  \else
    \addpenalty{\z@}%
  \fi\fi
  \ttl@contentsstretch
  \nobreak
  \ifcase#1\relax\else\interlinepenalty\@M\fi
  \parindent\z@
  \ifx\@nil#2%
    \PackageError{titletoc}{Unimplemented}%
    {The optional argument is currently mandatory}%
  \else
    \if@RTL\setlength\rightskip{#2}\else
    \setlength\leftskip{#2}\fi%
  \fi
  \if@RTL\setlength\leftskip{\@pnumwidth}\else\setlength\rightskip{\@pnumwidth}\fi%
  \let\contentsmargin\ttl@margin
  \def\ttl@makeline##1{##1}%
  #3%
  \addtolength{\parfillskip}{-\ttl@corr}%
  \if@RTL\addtolength{\leftskip}{\ttl@corr}\else\addtolength{\rightskip}{\ttl@corr}\fi%
  \let\ttl@leaders\leaders}
\renewcommand\ttl@margin[2][\z@]{%
  \def\ttl@corr{#1}%
  \advance\if@RTL\leftskip\else\rightskip\fi-\@pnumwidth\relax
  \advance\if@RTL\leftskip\else\rightskip\fi#2\relax
  \def\@pnumwidth{#2}}
\let\ttl@savel@part\l@part
\def\l@part{\ttl@lselect{part}}

\let\ttl@savel@chapter\l@chapter
```

```
\def\l@chapter{\ttl@lselect{chapter}}
```

7.108 tocbibind-xetex-bidi.def

```
\ProvidesFile{tocbibind-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for tocbibind packag
\if@dotocbib
  \@ifpackageloaded{natbib}{}{% natbib not loaded
    \renewcommand{\bibsection}{\t@cb@bchapsec}
    \renewenvironment{thebibliography}[1]{%
      \bibsection
      \begin{thebibitemlist}{#1}}{\end{thebibitemlist}}}
  \renewenvironment{thebibitemlist}[1]{
    \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
    \list{\@biblabel{\@arabic\c@enumiv}}%
         {\settowidth\labelwidth{\@biblabel{#1}}%
          \leftmargin\labelwidth
          \advance\leftmargin\labelsep
          \@openbib@code
          \usecounter{enumiv}%
          \let\p@enumiv\@empty
          \renewcommand\theenumiv{\@arabic\c@enumiv}}%
    \sloppy
    \clubpenalty4000
    \@clubpenalty \clubpenalty
    \widowpenalty4000%
    \sfcode`\.\@m}
   {\def\@noitemerr
     {\@latex@warning{Empty `thebibliography' environment}}%
     \endlist}

  \@ifpackagewith{chapterbib}{sectionbib}%
    {\renewcommand{\sectionbib}[2]{}}%
    {}

\fi
\if@inltxdoc\else
  \renewenvironment{theindex}%
    {\if@twocolumn
       \@restonecolfalse
     \else
       \@restonecoltrue
     \fi
     \if@bibchapter
        \if@donumindex
          \refstepcounter{chapter}
          \twocolumn[\vspace*{2\topskip}%
                     \@makechapterhead{\indexname}]%
          \addcontentsline{toc}{chapter}{\protect\numberline{\thechapter}\indexname}
          \chaptermark{\indexname}
        \else
```

```
          \if@dotocind
            \twocolumn[\vspace*{2\topskip}%
                       \@makeschapterhead{\indexname}]%
            \prw@mkboth{\indexname}
            \addcontentsline{toc}{chapter}{\indexname}
          \else
            \twocolumn[\vspace*{2\topskip}%
                       \@makeschapterhead{\indexname}]%
            \prw@mkboth{\indexname}
          \fi
        \fi
     \else
        \if@donumindex
          \twocolumn[\vspace*{-1.5\topskip}%
                     \@nameuse{\@tocextra}{\indexname}]%
          \csname \@tocextra mark\endcsname{\indexname}
        \else
          \if@dotocind
            \twocolumn[\vspace*{-1.5\topskip}%
                       \toc@headstar{\@tocextra}{\indexname}]%
            \prw@mkboth{\indexname}
            \addcontentsline{toc}{\@tocextra}{\indexname}
          \else
            \twocolumn[\vspace*{-1.5\topskip}%
                       \toc@headstar{\@tocextra}{\indexname}]%
            \prw@mkboth{\indexname}
          \fi
        \fi
     \fi
   \thispagestyle{plain}\parindent\z@
   \parskip\z@ \@plus .3\p@\relax
   \let\item\@idxitem}
   {\if@restonecol\onecolumn\else\clearpage\fi}
\fi
```

7.109 tocloft-xetex-bidi.def

```
\ProvidesFile{tocloft-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for tocloft package fo
\let\cftdot\@SepMark
\if@cfthaspart
\renewcommand*{\l@part}[2]{
  \@cftdopartfalse
  \ifnum \c@tocdepth >-2\relax
    \if@cfthaschapter
      \@cftdoparttrue
    \fi
    \ifnum \c@tocdepth >\m@ne
      \if@cfthaschapter\else
        \@cftdoparttrue
      \fi
```

```
    \fi
  \fi
  \if@cftdopart
    \if@cfthaschapter
      \addpenalty{-\@highpenalty}
    \else
      \addpenalty\@secpenalty
    \fi
    \addvspace{\cftbeforepartskip}
    \begingroup
      {\if@RTL\rightskip\else\leftskip\fi \cftpartindent\relax
       \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
       \parfillskip -\if@RTL\leftskip\else\rightskip\fi
       \parindent \cftpartindent\relax\@afterindenttrue
       \interlinepenalty\@M
       \leavevmode
       \@tempdima \cftpartnumwidth\relax
       \let\@cftbsnum \cftpartpresnum
       \let\@cftasnum \cftpartaftersnum
       \let\@cftasnumb \cftpartaftersnumb
       \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rig
       {\cftpartfont \cftpartpresnum #1}
       \cftpartfillnum{#2}}
      \nobreak
      \if@cfthaschapter
        \global\@nobreaktrue
        \everypar{\global\@nobreakfalse\everypar{}}
      \else
        \if@compatibility
          \global\@nobreaktrue
          \everypar{\global\@nobreakfalse\everypar{}}
        \fi
      \fi
    \endgroup
  \fi}
\fi
\if@cfthaschapter
\renewcommand*{\l@chapter}[2]{
  \ifnum \c@tocdepth >\m@ne
    \addpenalty{-\@highpenalty}
    \vskip \cftbeforechapskip
    {\if@RTL\rightskip\else\leftskip\fi \cftchapindent\relax
     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
     \parindent \cftchapindent\relax\@afterindenttrue
     \interlinepenalty\@M
     \leavevmode
     \@tempdima \cftchapnumwidth\relax
     \let\@cftbsnum \cftchappresnum
     \let\@cftasnum \cftchapaftersnum
```

```
    \let\@cftasnumb \cftchapaftersnumb
    \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
    {\cftchapfont #1}\nobreak
    \cftchapfillnum{#2}}
  \fi}
\fi
\renewcommand*{\l@section}[2]{%
  \ifnum \c@tocdepth >\z@
    \if@cfthaschapter
      \vskip \cftbeforesecskip
    \else
      \addpenalty\@secpenalty
      \addvspace{\cftbeforesecskip}
    \fi
    {\if@RTL\rightskip\else\leftskip\fi \cftsecindent\relax
     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
     \parindent \cftsecindent\relax\@afterindenttrue
     \interlinepenalty\@M
     \leavevmode
     \@tempdima \cftsecnumwidth\relax
     \let\@cftbsnum \cftsecpresnum
     \let\@cftasnum \cftsecaftersnum
     \let\@cftasnumb \cftsecaftersnumb
     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
     {\cftsecfont #1}\nobreak
     \cftsecfillnum{#2}}
  \fi}
\renewcommand*{\l@subsection}[2]{%
  \ifnum \c@tocdepth >\@ne
    \vskip \cftbeforesubsecskip
    {\if@RTL\rightskip\else\leftskip\fi \cftsubsecindent\relax
     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
     \parindent \cftsubsecindent\relax\@afterindenttrue
     \interlinepenalty\@M
     \leavevmode
     \@tempdima \cftsubsecnumwidth\relax
     \let\@cftbsnum \cftsubsecpresnum
     \let\@cftasnum \cftsubsecaftersnum
     \let\@cftasnumb \cftsubsecaftersnumb
     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
     {\cftsubsecfont #1}\nobreak
     \cftsubsecfillnum{#2}}
  \fi}
\renewcommand*{\l@subsubsection}[2]{%
  \ifnum \c@tocdepth >\tw@
    \vskip \cftbeforesubsubsecskip
    {\if@RTL\rightskip\else\leftskip\fi \cftsubsubsecindent\relax
     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
```

```
    \parfillskip -\if@RTL\leftskip\else\rightskip\fi
    \parindent \cftsubsubsecindent\relax\@afterindenttrue
    \interlinepenalty\@M
    \leavevmode
    \@tempdima \cftsubsubsecnumwidth\relax
    \let\@cftbsnum \cftsubsubsecpresnum
    \let\@cftasnum \cftsubsubsecaftersnum
    \let\@cftasnumb \cftsubsubsecaftersnumb
    \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
    {\cftsubsubsecfont #1}\nobreak
    \cftsubsubsecfillnum{#2}}
  \fi}
\renewcommand*{\l@paragraph}[2]{%
  \ifnum \c@tocdepth >3\relax
    \vskip \cftbeforeparaskip
    {\if@RTL\rightskip\else\leftskip\fi \cftparaindent\relax
     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
     \parindent \cftparaindent\relax\@afterindenttrue
     \interlinepenalty\@M
     \leavevmode
     \@tempdima \cftparanumwidth\relax
     \let\@cftbsnum \cftparapresnum
     \let\@cftasnum \cftparaaftersnum
     \let\@cftasnumb \cftparaaftersnumb
     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
     {\cftparafont #1}\nobreak
     \cftparafillnum{#2}}
  \fi}
\renewcommand*{\l@subparagraph}[2]{%
  \ifnum \c@tocdepth >4\relax
    \vskip \cftbeforesubparaskip
    {\if@RTL\rightskip\else\leftskip\fi \cftsubparaindent\relax
     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
     \parindent \cftsubparaindent\relax\@afterindenttrue
     \interlinepenalty\@M
     \leavevmode
     \@tempdima \cftsubparanumwidth\relax
     \let\@cftbsnum \cftsubparapresnum
     \let\@cftasnum \cftsubparaaftersnum
     \let\@cftasnumb \cftsubparaaftersnumb
     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
     {\cftsubparafont #1}\nobreak
     \cftsubparafillnum{#2}}
  \fi}
\renewcommand*{\l@figure}[2]{%
  \ifnum \c@lofdepth >\z@
    \vskip \cftbeforefigskip
    {\if@RTL\rightskip\else\leftskip\fi \cftfigindent\relax
```

```
    \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
    \parfillskip -\if@RTL\leftskip\else\rightskip\fi
    \parindent \cftfigindent\relax\@afterindenttrue
    \interlinepenalty\@M
    \leavevmode
    \@tempdima \cftfignumwidth\relax
    \let\@cftbsnum \cftfigpresnum
    \let\@cftasnum \cftfigaftersnum
    \let\@cftasnumb \cftfigaftersnumb
    \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
    {\cftfigfont #1}\nobreak
    \cftfigfillnum{#2}}
  \fi
 }
\renewcommand*{\l@table}[2]{%
 \ifnum\c@lotdepth >\z@
   \vskip \cftbeforetabskip
   {\if@RTL\rightskip\else\leftskip\fi \cfttabindent\relax
    \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
    \parfillskip -\if@RTL\leftskip\else\rightskip\fi
    \parindent \cfttabindent\relax\@afterindenttrue
    \interlinepenalty\@M
    \leavevmode
    \@tempdima \cfttabnumwidth\relax
    \let\@cftbsnum \cfttabpresnum
    \let\@cftasnum \cfttabaftersnum
    \let\@cftasnumb \cfttabaftersnumb
    \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
    {\cfttabfont #1}\nobreak
    \cfttabfillnum{#2}}
  \fi
 }
\renewcommand{\@cftl@subfig}{
\renewcommand*{\l@subfigure}[2]{%
 \ifnum \c@lofdepth > \toclevel@subfigure
   \vskip \cftbeforesubfigskip
   {\if@RTL\rightskip\else\leftskip\fi \cftsubfigindent\relax
    \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
    \parfillskip -\if@RTL\leftskip\else\rightskip\fi
    \parindent \cftsubfigindent\relax\@afterindenttrue
    \interlinepenalty\@M
    \leavevmode
    \@tempdima \cftsubfignumwidth\relax
    \let\@cftbsnum \cftsubfigpresnum
    \let\@cftasnum \cftsubfigaftersnum
    \let\@cftasnumb \cftsubfigaftersnumb
    \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
    {\cftsubfigfont ##1}\nobreak
    \cftsubfigfillnum{##2}}
 \fi
```

```
  }
}
\renewcommand{\@cftl@subtab}{
\renewcommand*{\l@subtable}[2]{%
  \ifnum \c@lotdepth > \toclevel@subtable
    \vskip \cftbeforesubtabskip
    {\if@RTL\rightskip\else\leftskip\fi \cftsubtabindent\relax
     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
     \parindent \cftsubtabindent\relax\@afterindenttrue
     \interlinepenalty\@M
     \leavevmode
     \@tempdima \cftsubtabnumwidth\relax
     \let\@cftbsnum \cftsubtabpresnum
     \let\@cftasnum \cftsubtabaftersnum
     \let\@cftasnumb \cftsubtabaftersnumb
     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
     {\cftsubtabfont ##1}\nobreak
     \cftsubtabfillnum{##2}}
  \fi
  }
}
\renewcommand{\newlistentry}[4][\@empty]{%
  \@ifundefined{c@#2}{%    check & set the counter
    \ifx \@empty#1\relax
      \newcounter{#2}
    \else
      \@ifundefined{c@#1}{\PackageWarning{tocloft}%
                           {#1 has no counter for use as a `within'}
        \newcounter{#2}}%
      {\newcounter{#2}[#1]%
       \expandafter\edef\csname the#2\endcsname{%
         \expandafter\noexpand\csname the#1\endcsname\@SepMark\noexpand\arabic{#2}}}
    \fi
    \setcounter{#2}{0}
  }
  {\PackageError{tocloft}{#2 has been previously defined}{\@eha}}

  \@namedef{l@#2}##1##2{%
    \ifnum \@nameuse{c@#3depth} > #4\relax
      \vskip \@nameuse{cftbefore#2skip}
      {\if@RTL\rightskip\else\leftskip\fi \@nameuse{cft#2indent}\relax
       \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
       \parfillskip -\if@RTL\leftskip\else\rightskip\fi
       \parindent \@nameuse{cft#2indent}\relax\@afterindenttrue
       \interlinepenalty\@M
       \leavevmode
       \@tempdima \@nameuse{cft#2numwidth}\relax
       \expandafter\let\expandafter\@cftbsnum\csname cft#2presnum\endcsname
       \expandafter\let\expandafter\@cftasnum\csname cft#2aftersnum\endcsname
```

```
      \expandafter\let\expandafter\@cftasnumb\csname cft#2aftersnumb\endcsname
      \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima \null\nobreak\hskip -\if@RTL\righ
      {\@nameuse{cft#2font}##1}\nobreak
      \@nameuse{cft#2fillnum}{##2}}
  \fi
}  % end of \l@#2

\expandafter\newlength\csname cftbefore#2skip\endcsname
  \setlength{\@nameuse{cftbefore#2skip}}{\z@ \@plus .2\p@}
\expandafter\newlength\csname cft#2indent\endcsname
\expandafter\newlength\csname cft#2numwidth\endcsname
\ifcase #4\relax  % 0
  \setlength{\@nameuse{cft#2indent}}{0em}
  \setlength{\@nameuse{cft#2numwidth}}{1.5em}
\or               % 1
  \setlength{\@nameuse{cft#2indent}}{1.5em}
  \setlength{\@nameuse{cft#2numwidth}}{2.3em}
\or               % 2
  \setlength{\@nameuse{cft#2indent}}{3.8em}
  \setlength{\@nameuse{cft#2numwidth}}{3.2em}
\or               % 3
  \setlength{\@nameuse{cft#2indent}}{7.0em}
  \setlength{\@nameuse{cft#2numwidth}}{4.1em}
\else             % anything else
  \setlength{\@nameuse{cft#2indent}}{10.0em}
  \setlength{\@nameuse{cft#2numwidth}}{5.0em}
\fi
\@namedef{cft#2font}{\normalfont}
\@namedef{cft#2presnum}{}
\@namedef{cft#2aftersnum}{}
\@namedef{cft#2aftersnumb}{}
\@namedef{cft#2dotsep}{\cftdotsep}
\@namedef{cft#2leader}{\normalfont\cftdotfill{\@nameuse{cft#2dotsep}}}
\@namedef{cft#2pagefont}{\normalfont}
\@namedef{cft#2afterpnum}{}
\@namedef{toclevel@#2}{#4}
\@namedef{cft#2fillnum}##1{%
  {\@nameuse{cft#2leader}}\nobreak
  \hb@xt@\@pnumwidth{\hfil\@nameuse{cft#2pagefont}##1}\@nameuse{cft#2afterpnum}\par}
} % end \newlistentry
\renewcommand{\cftchapterprecistoc}[1]{\addtocontents{toc}{%
 {\if@RTL\rightskip\else\leftskip\fi \cftchapindent\relax
  \advance\if@RTL\righskip\else\leftskip\fi \cftchapnumwidth\relax
  \if@RTL\leftskip\else\rightskip\fi \@tocrmarg\relax
  \textit{#1}\protect\par}}}
```

7.110 tocstyle-xetex-bidi.def

```
\ProvidesFile{tocstyle-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tocstyle package
\renewcommand*{\tocstyle@dottedtocline}[5]{%
```

```
\let\numberline\tocstyle@numberline
\ifnum #1>\c@tocdepth \else
  \if@tocstyle@penalties
    \begingroup
      \@tempcnta 20010
      \advance \@tempcnta by -#1
      \ifnum \@tempcnta>\lastpenalty
        \aftergroup\penalty\aftergroup\@lowpenalty
      \fi
    \endgroup
  \fi
  \edef\tocstyledepth{#1}%
  \tocstyle@activate@features
  \ifx\tocstyle@feature@entryvskip\relax
    \vskip \z@ \@plus.2\p@
  \else
    \addvspace{\tocstyle@feature@entryvskip}%
  \fi
  {%
    \parskip \z@ \parindent \z@ \if@RTL\rightskip\else\leftskip\fi \z@ \if@RTL\leftskip\els
    \tocstyle@feature@raggedhook
    \@tempdima #3\relax
    \@tempdimb #2\relax
    \typeout{m (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
    \ifnum #1>\z@\relax
      \@tempcnta #1\relax \advance\@tempcnta \m@ne
      \ifcsname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
        \ifcsname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
          \@tempdimb
          \csname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
          \advance\@tempdimb
          \csname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
        \fi
      \fi
    \fi
    \typeout{C (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
    \ifcsname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname
      \ifdim \@tempdimb>
      \csname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname\relax
        \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
        @#1\endcsname{\the\@tempdimb}%
      \fi
    \else
      \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
      @#1\endcsname{\the\@tempdimb}%
    \fi
    \iftocstyle@autolength
      \ifcsname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
        \@tempdimb \csname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
        \relax
```

```
    \fi
    \ifcsname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
      \@tempdima \csname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
      \relax
    \fi
    \typeout{a (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
    \typeout{A (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
  \else
    \@tempdimb #2\relax
    \typeout{M (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
  \fi
  \ifcsname tocstyle@unumwidth@\tocstyleTOC @\endcsname
    \ifdim \@tempdima>
    \csname tocstyle@unumwidth@\tocstyleTOC @\endcsname\relax
      \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
      @\endcsname{\the\@tempdima}%
    \fi
  \else
    \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
    @\endcsname{\the\@tempdima}%
  \fi
  \ifcase\tocstyle@indentstyle\relax\else
    \@tempdimb \z@
    \ifcsname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
      \@tempdima \csname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
      \relax
    \fi
    \typeout{s (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
    \typeout{S (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
  \fi
  \advance\parindent \@tempdimb\@afterindenttrue
  \advance\if@RTL\rightskip\else\leftskip\fi \parindent
  \advance\if@RTL\leftskip\else\rightskip\fi \@tocrmarg
  \parfillskip -\if@RTL\leftskip\else\rightskip\fi
  \ifx\tocstyle@feature@parfillskip\relax\else
    \advance\parfillskip \tocstyle@feature@parfillskip\relax
  \fi
  \interlinepenalty\@M
  \leavevmode
  \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
  \null\nobreak
  \iftocstyle@indentnotnumbered\else
    \hskip -\if@RTL\rightskip\else\leftskip\fi
  \fi
  \tocstyle@feature@entryhook
  {#4}\nobreak
  \ifx\tocstyle@feature@leaders\relax
    \leaders\hbox{$\m@th
      \mkern \@dotsep mu\hbox{\tocstyle@feature@dothook .}%
      \mkern \@dotsep mu$}\hfill
```

```
      \else
        \tocstyle@feature@leaders
      \fi
      \nobreak
      \ifx\tocstyle@feature@pagenumberbox\relax
        \hb@xt@\@pnumwidth{\hfil\tocstyle@feature@pagenumberhook #5}%
      \else
        \tocstyle@feature@pagenumberbox{\tocstyle@feature@pagenumberhook #5}%
      \fi
      \par
    }%
    \if@tocstyle@penalties
      \bgroup
        \@tempcnta 20009
        \advance\@tempcnta by -#1
        \edef\reserved@a{\egroup\penalty\the\@tempcnta\relax}%
      \reserved@a
    \fi
  \fi}
\renewcommand*{\tocstyle@numberline}[1]{%
  \begingroup
    \ifx\tocstyle@feature@spaceafternumber\relax
      \settowidth\@tempdima{\tocstyle@@numberline{#1}\enskip}%
    \else
      \settowidth\@tempdima{\tocstyle@@numberline{#1}}%
      \advance \@tempdima \tocstyle@feature@spaceafternumber\relax
    \fi
    \ifcsname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname
      \ifdim \@tempdima >
      \csname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname\relax
        \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
        @\tocstyledepth\endcsname{\the\@tempdima}%
      \fi
    \else
      \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
      @\tocstyledepth\endcsname{\the\@tempdima}%
    \fi
  \endgroup
  \iftocstyle@indentnotnumbered
    \hskip -\if@RTL\rightskip\else\leftskip\fi
  \fi
  \ifcase \tocstyle@indentstyle
    \hb@xt@\@tempdima{\tocstyle@@numberline{#1}\hfil}%
  \or
    \hb@xt@\@tempdima{\tocstyle@@numberline{#1}\hfil}%
  \else
    \ifx\tocstyle@feature@spaceafternumber\relax
      \hbox{\tocstyle@@numberline{#1}\enskip}%
    \else
      \hbox{\tocstyle@@numberline{#1}\hskip
```

```
        \tocstyle@feature@spaceafternumber\relax}%
    \fi
  \fi
}
\AtBeginDocument{%
  \ifcsname l@part\endcsname
    \ifcsname l@chapter\endcsname
      \setbox\@tempboxa\vbox{\hsize\maxdimen
        \l@part{\tocstyle@l@define{part}{-1}}{}}%
    \else
      \setbox\@tempboxa\vbox{\hsize\maxdimen
        \l@part{\tocstyle@l@define{part}{0}}{}}%
    \fi
  \fi
  \ifcsname l@chapter\endcsname
    \setbox\@tempboxa\vbox{\hsize\maxdimen
      \l@chapter{\tocstyle@l@define{chapter}{0}}{}}%
  \fi
  \ifcsname l@section\endcsname
    \setbox\@tempboxa\vbox{\hsize\maxdimen
      \l@section{\tocstyle@l@define{section}{1}}{}}%
  \fi
  \ifcsname l@subsection\endcsname
    \setbox\@tempboxa\vbox{\hsize\maxdimen
      \l@subsection{\tocstyle@l@define{subsection}{2}}{}}%
  \fi
  \ifcsname l@subsubsection\endcsname
    \setbox\@tempboxa\vbox{\hsize\maxdimen
      \l@subsubsection{\tocstyle@l@define{subsubsection}{3}}{}}%
  \fi
  \ifcsname l@paragraph\endcsname
    \setbox\@tempboxa\vbox{\hsize\maxdimen
      \l@paragraph{\tocstyle@l@define{paragraph}{4}}{}}%
  \fi
  \ifcsname l@subparagraph\endcsname
    \setbox\@tempboxa\vbox{\hsize\maxdimen
      \l@subparagraph{\tocstyle@l@define{subparagraph}{5}}{}}%
  \fi
  \ifcsname l@table\endcsname
    \setbox\@tempboxa\vbox{\hsize\maxdimen
      \l@table{\tocstyle@l@define{table}{1}}{}}%
  \fi
  \ifcsname l@figure\endcsname
    \setbox\@tempboxa\vbox{\hsize\maxdimen
      \l@figure{\tocstyle@l@define{figure}{1}}{}}%
  \fi
  \def\@tempa#1#2#3#4#5{%
    \ifnum #1>\c@tocdepth \else
      \vskip \z@ \@plus.2\p@
      {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocrm
```

```
      \parindent #2\relax\@afterindenttrue
      \interlinepenalty\@M
      \leavevmode
      \@tempdima #3\relax
      \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rig
      {#4}\nobreak
      \leaders\hbox{$\m@th
         \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
         mu$}\hfill
      \nobreak
      \hb@xt@\@pnumwidth{{\hfil \normalfont \normalcolor #5}}%
      \par}%
    \fi}%
  \ifx\@dottedtocline\@tempa\else
    \tocstyle@macrochangewarning\@dottedtocline
  \fi
  \let\tocstyle@saved@dottedtocline\@dottedtocline
  \def\@tempa#1{\hb@xt@\@tempdima{#1\autodot\hfil}}%
  \ifx\numberline\@tempa\else
    \def\@tempa#1{\hb@xt@\@tempdima{#1\hfil}}%
    \ifx\numberline@tempa\else
      \tocstyle@macrochangewarning\numberline
    \fi
  \fi
  \let\tocstyle@saved@numberline\numberline
}
\renewcommand*{\tocstyle@l@define}[2]{%
  \advance\if@RTL\rightskip\else\leftskip\fi-\@tempdima
  \edef\@tempa{%
    \noexpand\global\noexpand\let
    \expandafter\noexpand\csname tocstyle@saved@l@#1\endcsname
    \expandafter\noexpand\csname l@#1\endcsname
    \noexpand\gdef
    \expandafter\noexpand\csname tocstyle@l@#1\endcsname{%
      \noexpand\@dottedtocline{#2}{\the\if@RTL\rightskip\else\leftskip\fi}{\the\@tempdima}}%
    \noexpand\g@addto@macro\noexpand\tocstyle@activate@all@l{%
      \noexpand\let\expandafter\noexpand\csname l@#1\endcsname
      \expandafter\noexpand\csname tocstyle@l@#1\endcsname
    }%
  }%
  \PackageInfo{tocstyle}{prepare \expandafter\string
    \csname l@#1\endcsname\space for redefinition}%
  \@tempa
}
```

7.111 wrapfig-xetex-bidi.def

```
\ProvidesFile{wrapfig-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for wrapfig package fo
\let\WF@@everypar\bidi@n@everypar
\def\WF@putfigmaybe{%
```

```
\ifinner
  \vskip-\parskip \global\WF@floatfalse
  \let\pagetotal\maxdimen % kludge flag for "not top of page"
\else % outer page
  \@tempdima\pagedepth % save page depth
   {\advance\parskip\if@RTL\baselineskip\else\@tempdima\fi\vskip-\parskip}% back up to baseli
   \penalty\interlinepenalty % update pg. parameters
   \@tempdimb\pagegoal \advance\@tempdimb-\pagetotal % room left on page
   \ifdim\@tempdimb<\z@ % \WF@info{Page overfull already;}%
      \global\WF@floatfalse
      \ifdim-\@tempdimb>\pageshrink \else \pagebreak \fi
   \else
      \ifdim\WF@size>\@tempdimb
         \ifWF@float \dimen@.5\baselineskip \else \dimen@ 2\baselineskip\fi
         \ifdim\pagestretch>\dimen@ \dimen@\pagestretch \fi
         \ifdim\pagefilstretch>\z@ \dimen@\@tempdimb \fi
         \ifdim\pagefillstretch>\z@ \dimen@\@tempdimb \fi
         \advance\dimen@.5\baselineskip
         \ifdim\dimen@>\@tempdimb % \WF@info{Page nearly full; can stretch}%
            \global\WF@floatfalse \pagebreak
         \fi
      \else % \WF@info{Fits in \the\@tempdimb;}%
         \global\WF@floatfalse
   \fi\fi
   \vskip\@tempdima\relax % (return erased page depth)
\fi
\noindent
\ifWF@float
  \WF@fltmes
\else % putting here;
  \WF@info{Put \WF@wfname here:}%
  {\ifodd\if@twoside\c@page\else\@ne\fi % assign l/r to i/o placement
    \lccode`i`l\lccode`o`r\else \lccode`i`r\lccode`o`l\fi
    \xdef\WF@place{\the\lccode\lccode\WF@place}}% twice to get only l or r
  \hbox to\z@{% llap or rlap depending on {l} or {r}; calc effective width
   \@tempdima\wd\WF@box \@tempdimb\WF@ovh
   \advance\@tempdima-\@tempdimb \advance\@tempdima\columnsep
   \@tempdimb\hsize \advance\@tempdimb-\@tempdima
   \xdef\WF@adjlw{\the\@tempdima}%
   \ifnum `l=\WF@place % fig on left
    \if@RTL%
     \kern\@tempdimb \kern\columnsep
    \def\@tempa{\hss}% position to left of the gap
     \else%
    \hss % figure overlaps space to the left
    \def\@tempa{\kern\columnsep}% position to left of the gap
    \fi%
   \else  %  fig on right
    \if@RTL%
     \hss
```

```
      \@tempdima\z@
      \def\@tempa{\kern\columnsep}
     \else%
    \@tempdima\z@ % no left indentation
    \kern\@tempdimb \kern\columnsep
    \def\@tempa{\hss}% figure overlaps space to the right
    \fi%
   \fi
   \ifdim\@tempdimb<\hsize
    \xdef\WF@wrapil{\the\@tempdima \the\@tempdimb}% indentation and length
    \xdef\WF@adjtlm{\the\@tempdima}%
   \else
    \xdef\WF@wrapil{\z@ \the\hsize}%
    \xdef\WF@adjlw{\z@}\xdef\WF@adjtlm{\z@}%
   \fi
   \ifdim\pagetotal=\z@ % \WF@info{Put \WF@wfname at top of p.\thepage}%
    \global\advance\WF@size-\intextsep
   \else % \WF@info{Putting \WF@wfname in middle of page}%
    \setbox\WF@box\hbox{\lower\intextsep\box\WF@box}%
   \fi \dp\WF@box\z@ \box\WF@box \@tempa
  }% end \hbox to 0pt
  \aftergroup\WF@startwrapping % after the \endgroup which immediately follows
\fi}
```

7.112 xcolor-xetex-bidi.def

```
\ProvidesFile{xcolor-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for xcolor package for
\long\def\color@b@x#1#2#3%
 {\leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
  \setbox\z@\hbox{\kern\fboxsep{\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fboxsep}%
  \dimen@\ht\z@\advance\dimen@\fboxsep\ht\z@\dimen@
  \dimen@\dp\z@\advance\dimen@\fboxsep\dp\z@\dimen@
  {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}\box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
\def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi
\DeclareRobustCommand\color
 {\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor}
\def\@undeclaredcolor[#1]#2%
 {\begingroup
  \let\@@cls\@empty
  \XC@getmodclr12{#1}{#2}{}%
   {\ifblendcolors
      \ifx\colorblend\@empty\else
        \edef\@@mix{\expandafter\@gobble\colorblend}\@tempswafalse
        \XC@coremodel\@@mod\@@clr\@xcolor@{}{}\@@mod\@@clr
      \fi
    \fi
    \ifconvertcolorsU
      \edef\@@tmp{\XC@tgt@mod{\@@mod}}%
      \convertcolorspec\@@mod\@@clr\@@tmp\@@clr \let\@@mod\@@tmp
    \fi
```

```
    \ifmaskcolors
      \convertcolorspec\@@mod\@@clr\XC@mmod\@@clr
      \let\@@mod\XC@mmod
      \XC@inflate\@@mod\XC@mclr\@@clr\@@tmp
      \expandafter\XC@mul\@@tmp,\@@clr
    \fi
    \edef\@@tmp{\noexpand\XC@undeclaredcolor{\@@mod}{\@@clr}}%
    \expandafter\endgroup\@@tmp}}
\def\@declaredcolor#1%
 {\XC@edef\XC@@tmp{#1}\XC@@tstfalse
  \ifcase\XC@type\XC@@tmp\relax \XC@@tsttrue\or \relax\else
    \ifblendcolors\XC@@tsttrue\fi \ifmaskcolors\XC@@tsttrue\fi
    \ifconvertcolorsU\XC@@tsttrue\fi
  \fi
  \ifXC@@tst
    \expandafter\XC@declaredcolor\else
    \expandafter\XC@declaredc@lor\fi}
\def\XC@undeclaredcolor#1#2%
 {\@ifundefinedmodel{#1}%
   {\c@lor@error{model `#1'}}%
   {\@nameuse{color@#1}\current@color{#2}%
    \edef\XC@current@color{\noexpand\xcolor@{}{\current@color}{#1}{#2}}%
    \XC@display}\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
\def\XC@declaredc@lor
 {\XC@let@Nc\XC@current@color{\string\color@\XC@@tmp}%
  \edef\current@color{\XC@current@color}%
  \XC@display\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
\DeclareRobustCommand\bidicolor
 {\@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
\def\@bidiundeclaredcolor[#1]#2%
 {\begingroup
  \let\@@cls\@empty
  \XC@getmodclr12{#1}{#2}{}%
   {\ifblendcolors
      \ifx\colorblend\@empty\else
        \edef\@@mix{\expandafter\@gobble\colorblend}\@tempswafalse
        \XC@coremodel\@@mod\@@clr\@xcolor@{}{}\@@mod\@@clr
      \fi
    \fi
    \ifconvertcolorsU
      \edef\@@tmp{\XC@tgt@mod{\@@mod}}%
      \convertcolorspec\@@mod\@@clr\@@tmp\@@clr \let\@@mod\@@tmp
    \fi
    \ifmaskcolors
      \convertcolorspec\@@mod\@@clr\XC@mmod\@@clr
      \let\@@mod\XC@mmod
      \XC@inflate\@@mod\XC@mclr\@@clr\@@tmp
      \expandafter\XC@mul\@@tmp,\@@clr
    \fi
    \edef\@@tmp{\noexpand\XC@bidiundeclaredcolor{\@@mod}{\@@clr}}%
```

```
    \expandafter\endgroup\@@tmp}}
\def\XC@bidiundeclaredcolor#1#2%
 {\@ifundefinedmodel{#1}%
   {\c@lor@error{model `#1'}}%
   {\@nameuse{color@#1}\current@color{#2}%
    \edef\XC@current@color{\noexpand\xcolor@{}{\current@color}{#1}{#2}}%
    \XC@display}}
\def\@bidideclaredcolor#1%
 {\XC@edef\XC@@tmp{#1}\XC@@tstfalse
  \ifcase\XC@type\XC@@tmp\relax \XC@@tsttrue\or \relax\else
    \ifblendcolors\XC@@tsttrue\fi \ifmaskcolors\XC@@tsttrue\fi
    \ifconvertcolorsU\XC@@tsttrue\fi
  \fi
  \ifXC@@tst
    \expandafter\XC@bidideclaredcolor\else
    \expandafter\XC@bidideclaredc@lor\fi}
\def\XC@bidideclaredcolor
 {\XC@split\XC@@tmp
  \edef\@@tmp{\noexpand\@bidiundeclaredcolor[\@@mod]{\@@clr}}%
  \expandafter\endgroup\@@tmp}
\def\XC@bidideclaredc@lor
 {\XC@let@Nc\XC@current@color{\string\color@\XC@@tmp}%
  \edef\current@color{\XC@current@color}%
  \XC@display}
\def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
\def\color@fbox#1#2#3#{\protect\color@fb@x{#1}{#2}{#3}}
\def\color@fb@x#1#2#3#4%
 {\color@b@x{\fboxsep\z@\bidicolor#1{#2}\XC@fbox}%
   {\@ifxempty{#3}{\bidicolor#1}{\bidicolor#3}{#4}}}
\def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode
```

7.113 latex-xetex-bidi.def

```
\ProvidesFile{latex-xetex-bidi.def}[2013/10/10 v1.1.5 bidi adaptations  for `latex.ltx' for X
\newcommand{\TeXXeTOn}{\TeXXeTstate=1 }
\newcommand{\TeXXeTOff}{\TeXXeTstate=0 }
\TeXXeTOn
\def\bidi@RTL@everypar{\if@RTL{\setbox\z@\lastbox\beginR\ifvoid\z@\else\usebox\z@\fi}\fi}
   \let\bidi@o@everypar=\everypar
   \newtoks\bidi@n@everypar
   \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
   \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
   \let\everypar=\bidi@n@everypar
\def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
\def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
\protected\def\hboxR{\hbox\bgroup
 \everyhbox{%
  \aftergroup\egroup
  \everyhbox{}%
  \beginR
```

```
  \bgroup
  \aftergroup\endR
  \aftergroup\egroup
 }\hbox}
\protected\def\hboxL{\hbox\bgroup
 \everyhbox{%
  \aftergroup\egroup
  \everyhbox{}%
  \beginL
  \bgroup
  \aftergroup\endL
  \aftergroup\egroup
 }\hbox}
\protected\def\vboxR{\vbox\bgroup
 \everyvbox{%
  \aftergroup\egroup
  \everyvbox{}%
  \@RTLtrue
  \bgroup
  \aftergroup\egroup
 }\vbox}
\protected\def\vboxL{\vbox\bgroup
 \everyvbox{%
  \aftergroup\egroup
  \everyvbox{}%
  \@RTLfalse
  \bgroup
  \aftergroup\egroup
 }\vbox}
\def\LTR{\par\@RTLfalse\@RTL@footnotefalse\if@bidi@list@minipage@parbox\beginL\else\if@RTLtab
\def\endLTR{\par}
\def\RTL{\par\@RTLtrue\@RTL@footnotetrue\hsize\linewidth\parshape\z@}
\def\endRTL{\par}
\def\setRTL{\@RTLtrue\@RTL@footnotetrue}
\def\setLTR{\@RTLfalse\@RTL@footnotefalse\if@bidi@list@minipage@parbox\beginL\else\if@RTLtab\
\let\unsetRTL=\setLTR
\let\unsetLTR=\setRTL
\let\LR=\LRE
\let\RL=\RLE
\def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
\def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
\let\@ensure@RL=\@ensure@RTL
\let\@ensure@LR=\@ensure@LTR
\def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
\let\@ensure@maindir=\@ensure@dir
\def\@@RTL{RTL}
\def\@@LTR{LTR}
\def\save@dir{\if@RTL\gdef\saved@@dir{RTL}\else\gdef\saved@@dir{LTR}\fi}
\def\reset@dir{\ifx\saved@@dir\@@RTL\setRTL\else\ifx\saved@@dir\@@LTR\setLTR\else\relax\fi\fi
\let\@@TeX\TeX
```

```
\def\TeX{\@ensure@LTR{\@@TeX}}
\let\@@LaTeX\LaTeX
\def\LaTeX{\@ensure@LTR{\@@LaTeX}}
\let\@@LaTeXe\LaTeXe
\def\LaTeXe{\@ensure@LTR{\@@LaTeXe}}
\long\def\bidi@reflect@box#1{%
  \leavevmode
  \setbox\z@\hbox{{#1}}%
  \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}
  \hb@xt@\wd\z@{\kern\wd\z@\box\tw@\hss}%
}
\def\XeTeX{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
  \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
\def\XeLaTeX{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
  \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \LaTeX}}$}}
\let\setRL=\setRTL
\let\setLR=\setLTR
\let\unsetRL=\setLTR
\def\RTLcases#1{\left.\vcenter{\normalbaselines\m@th
    \ialign{$##\hfil$&\quad{##}\hfil\crcr#1\crcr}}\,\right\}}
\def\SepMark#1{\gdef\@SepMark{\if@RTL\fi#1\if@RTL\fi}}
\SepMark{.}
\def\@thmcountersep{\@SepMark}
\def\setRTLbibitems{\@RTLbibitemstrue\@LTRbibitemsfalse}
\def\setLTRbibitems{\@LTRbibitemstrue\@RTLbibitemsfalse}
\def\setdefaultbibitems{\@RTLbibitemsfalse\@LTRbibitemsfalse}
\def\list#1#2{%
  \ifnum \@listdepth >5\relax
    \@toodeep
  \else
    \global\advance\@listdepth\@ne
  \fi
  \rightmargin\z@
  \listparindent\z@
  \itemindent\z@
  \csname @list\romannumeral\the\@listdepth\endcsname
  \def\@itemlabel{#1}%
  \let\makelabel\@mklab
  \@nmbrlistfalse
  #2\relax
  \@trivlist
  \parskip\parsep
  \parindent\listparindent
  \advance\linewidth -\rightmargin
  \advance\linewidth -\leftmargin
  \if@bidi@list@minipage@parbox
  \if@RTL
  \advance\@totalleftmargin \leftmargin
  \else
  \advance\@totalleftmargin \rightmargin
```

```
  \fi
  \else
  \if@RTLtab
  \if@bidi@list@minipage@parbox@not@nob
  \if@RTL
    \advance\@totalleftmargin \rightmargin
  \else
    \advance\@totalleftmargin \leftmargin
  \fi
  \else
  \if@RTL
  \advance\@totalleftmargin \leftmargin
  \else
  \advance\@totalleftmargin \rightmargin
  \fi\fi
  \else
  \if@RTL
    \advance\@totalleftmargin \rightmargin
  \else
    \advance\@totalleftmargin \leftmargin
  \fi\fi\fi
  \parshape \@ne \@totalleftmargin \linewidth
  \ignorespaces}
\def\@item[#1]{%
  \if@noparitem
    \@donoparitem
  \else
    \if@inlabel
      \indent \par
    \fi
    \ifhmode
      \unskip\unskip \par
    \fi
    \if@newlist
      \if@nobreak
        \@nbitem
      \else
        \addpenalty\@beginparpenalty
        \addvspace\@topsep
        \addvspace{-\parskip}%
      \fi
    \else
      \addpenalty\@itempenalty
      \addvspace\itemsep
    \fi
    \global\@inlabeltrue
  \fi
  \everypar{\if@bidi@list@minipage@parbox\if@RTL\else\beginL\fi\else\if@RTLtab\if@RTL\else\be
    \@minipagefalse
    \global\@newlistfalse
```

```
    \if@inlabel
      \global\@inlabelfalse
      {\setbox\z@\lastbox
       \ifvoid\z@
         \kern-\itemindent
       \fi}%
      \box\@labels
      \penalty\z@
    \fi
    \if@nobreak
      \@nobreakfalse
      \clubpenalty \@M
    \else
      \clubpenalty \@clubpenalty
      \everypar{}%
    \fi}%
  \if@noitemarg
    \@noitemargfalse
    \if@nmbrlist
      \refstepcounter\@listctr
    \fi
  \fi
  \sbox\@tempboxa{\makelabel{#1}}%
  \global\setbox\@labels\hbox{%
    \unhbox\@labels
    \hskip \itemindent
    \hskip -\labelwidth
    \hskip -\labelsep
    \ifdim \wd\@tempboxa >\labelwidth
      \box\@tempboxa
    \else
      \hbox to\labelwidth {\unhbox\@tempboxa}%
    \fi
    \hskip \labelsep}%
  \ignorespaces}
\long\def\@iiiparbox#1#2[#3]#4#5{%
  \leavevmode
  \@pboxswfalse
  \if@RTLtab\@bidi@list@minipage@parbox@not@nobtrue\fi
  \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi\f
  \setlength\@tempdima{#4}%
  \@begin@tempboxa\vbox{\hsize\@tempdima\@parboxrestore#5\@@par}%
    \ifx\relax#2\else
      \setlength\@tempdimb{#2}%
      \edef\@parboxto{to\the\@tempdimb}%
    \fi
    \if#1b\vbox
    \else\if #1t\vtop
    \else\ifmmode\vcenter
    \else\@pboxswtrue $\vcenter
```

```
    \fi\fi\fi
    \@parboxto{\let\hss\vss\let\unhbox\unvbox
       \csname bm@#3\endcsname}%
    \if@pboxsw \m@th$\fi
  \@end@tempboxa}
\newenvironment{LTRitems}
                 {\par\@RTLfalse
                  \if@bidi@list@minipage@parbox
                  \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
                  \else \if@RTLtab\if@bidi@list@minipage@parbox@not@nob
                  \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
                  \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
                  \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi\
                  \ignorespaces}{\vskip\z@}
\newenvironment{RTLitems}
                 {\par\@RTLtrue
                  \if@bidi@list@minipage@parbox
                  \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
                  \else \if@RTLtab\if@bidi@list@minipage@parbox@not@nob
                  \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
                  \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
                  \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi\
                  \ignorespaces}{\vskip\z@}
\newenvironment{LTRbibitems}
                 {\par\@RTLfalse
                  \if@bidi@list@minipage@parbox
                  \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
                  \else \if@RTLtab\if@bidi@list@minipage@parbox@not@nob
                  \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
                  \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
                  \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi\
                  \ignorespaces}{\vskip\z@}
\newenvironment{RTLbibitems}
                 {\par\@RTLtrue
                  \if@bidi@list@minipage@parbox
                  \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
                  \else \if@RTLtab\if@bidi@list@minipage@parbox@not@nob
                  \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
                  \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
                  \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi\
                  \ignorespaces}{\vskip\z@}
\def\raggedright{%
  \let\\\@centercr
  \rightskip\z@skip\rightskip\@flushglue
  \parindent\z@\parfillskip\z@skip}
\let\bidi@orig@raggedleft\raggedleft
\let\bidi@orig@raggedright\raggedright
\renewcommand\raggedleft{\if@bidi@list@minipage@parbox\bidi@orig@raggedright\else\if@RTLtab\b
\renewcommand\raggedright{\if@bidi@list@minipage@parbox\bidi@orig@raggedleft\else\if@RTLtab\b
\newcommand{\bidi@raggedright}{\if@RTL\raggedleft\else\raggedright\fi}
```

```
\newcommand{\bidi@raggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
\def\centerline#1{%
\if@RTL\@@line{\hss\beginR#1\endR\hss}
\else\@@line{\hss#1\hss}\fi}
\def\leftline#1{%
\if@RTL\@@line{\beginR#1\endR\hss}
\else\@@line{#1\hss}\fi}
\def\rightline#1{%
\if@RTL\@@line{\hss\beginR#1\endR}
\else\@@line{\hss#1}\fi}
\let\bidi@orig@leftline\leftline
\let\bidi@orig@rightline\rightline
\def\leftline#1{\ifhmode\if@RTL\bidi@orig@rightline{#1}\else\bidi@orig@leftline{#1}\fi\else\i
\def\rightline#1{\ifhmode\if@RTL\bidi@orig@leftline{#1}\else\bidi@orig@rightline{#1}\fi\else\
\def\bidirlap#1{\hb@xt@\z@{\if@RTL\hss\fi#1\if@RTL\else\hss\fi}}
\def\bidillap#1{\hb@xt@\z@{\if@RTL\else\hss\fi#1\if@RTL\hss\fi}}
\def\@hangfrom#1{\setbox\@tempboxa\hbox{{#1}}%
      \hangindent \if@RTL-\else\fi\wd\@tempboxa\noindent\box\@tempboxa}
\def\narrower{%
  \advance\if@RTL\rightskip\else\leftskip\fi\parindent
  \advance\if@RTL\leftskip\else\rightskip\fi\parindent}
\def\underline#1{%
  \relax
  \ifmmode\@@underline{#1}%
  \else
\if@RTL $\@@underline{\hbox{\beginR#1\endR}}\m@th$\relax
\else
$\@@underline{\hbox{#1}}\m@th$\relax\fi\fi}
\if@compatibility
   \let\undertext=\underline
\fi
\global\@RTLtabfalse
\def\@tabular{\if@RTL\@RTLtabtrue\fi
   \leavevmode \hbox \bgroup \if@RTLtab\beginR \fi
   $\let\@acol\@tabacol
   \let\@classz\@tabclassz
   \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
\def\endtabular{\crcr\egroup\if@RTLtab\egroup\endR\egroup\fi
                 \egroup $\if@RTLtab\endR\fi\egroup
                 \@RTLtabfalse}
\expandafter \let \csname endtabular*\endcsname = \endtabular
\def\@array[#1]#2{%
  \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
  \bgroup
  \setbox\@arstrutbox\hbox{%
    \vrule \@height\arraystretch\ht\strutbox
           \@depth\arraystretch \dp\strutbox
           \@width\z@}%
  \@mkpream{#2}%
  \edef\@preamble{%
```

```
    \ialign \noexpand\@halignto
      \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
  \let\@startpbox\@@startpbox \let\@endpbox\@@endpbox
  \let\tabularnewline\\%
    \let\par\@empty
    \let\@sharp##%
    \set@typeset@protect
    \lineskip\z@skip\baselineskip\z@skip
    \ifhmode \@preamerr\z@ \@@par\fi
  \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
    \@preamble}
\def\array{\let\@acol\@arrayacol \let\@classz\@arrayclassz
 \let\@classiv\@arrayclassiv
 \let\\\@arraycr\let\@halignto\@empty\@RTLtabfalse\@tabarray}
\def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
    \ifnum \@lastchclass=3 5 \else
     \z@ \if #1c\@chnum \z@ \else
                               \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
                               \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
          \@chclass \if #1|\@ne \else
                    \if #1@\tw@ \else
                    \if #1p3 \else \z@ \@preamerr 0\fi
  \fi  \fi  \fi  \fi  \fi  \fi
\fi}
\def\bm@l{\if@RTL\hss\unhbox\@tempboxa\else\unhbox\@tempboxa\hss\fi}
\def\bm@r{\if@RTL\unhbox\@tempboxa\hss\else\hss\unhbox\@tempboxa\fi}
\def\bm@t{\unhbox\@tempboxa\hss}
\def\bm@b{\hss\unhbox\@tempboxa}
\def\@dottedtocline#1#2#3#4#5{%
  \ifnum #1>\c@tocdepth \else
    \vskip \z@ \@plus.2\p@
    {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocrmar
     \parindent #2\relax\@afterindenttrue
     \interlinepenalty\@M
     \leavevmode
     \@tempdima #3\relax
     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
     {#4}\nobreak
     \leaders\hbox{$\m@th
        \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
        mu$}\hfill
     \nobreak
     \hb@xt@\@pnumwidth{{\hfil\normalfont \normalcolor #5}}%
     \par}%
  \fi}
\def\RTL@outputdblcol{%
\if@firstcolumn \global\@firstcolumnfalse
\global\setbox\@leftcolumn \box\@outputbox
\else \global\@firstcolumntrue
\setbox\@outputbox \vbox {\hbox to\textwidth {%
```

```
\hskip \columnwidth
\hfil \vrule width\columnseprule \hfil
\hbox to\columnwidth {\box\@leftcolumn \hss}%
\hskip -\textwidth
\hbox to\columnwidth{\box\@outputbox \hss}%
\hskip \columnsep
\hskip \columnwidth }}%
\@combinedblfloats \@outputpage
\begingroup \@dblfloatplacement \@startdblcolumn
\@whilesw\if@fcolmade \fi
{\@outputpage \@startdblcolumn }\endgroup
\fi}
\def\LTR@outputdblcol{%
  \if@firstcolumn
    \global \@firstcolumnfalse
    \global \setbox\@leftcolumn \box\@outputbox
  \else
    \global \@firstcolumntrue
    \setbox\@outputbox \vbox {%
                          \hb@xt@\textwidth {%
                            \hb@xt@\columnwidth {%
                              \box\@leftcolumn \hss}%
                            \hfil
                            {\normalcolor\vrule \@width\columnseprule}%
                            \hfil
                            \hb@xt@\columnwidth {%
                              \box\@outputbox \hss}%
                                          }%
                             }%
    \@combinedblfloats
    \@outputpage
    \begingroup
      \@dblfloatplacement
      \@startdblcolumn
      \@whilesw\if@fcolmade \fi
        {\@outputpage
         \@startdblcolumn}%
    \endgroup
  \fi
}
\renewcommand{\@outputdblcol}{\if@RTLmain\RTL@outputdblcol\else\LTR@outputdblcol\fi}
\newcommand{\RTLdblcol}{\renewcommand{\@outputdblcol}{\RTL@outputdblcol}}
\newcommand{\LTRdblcol}{\renewcommand{\@outputdblcol}{\LTR@outputdblcol}}
\def\LTRmarginpar{%
  \ifhmode
    \@bsphack
    \@floatpenalty -\@Mii
  \else
    \@floatpenalty-\@Miii
  \fi
```

```
  \ifinner
    \@parmoderr
    \@floatpenalty\z@
  \else
    \@next\@currbox\@freelist{}{}%
    \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
       {\@floatpenalty\z@
        \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
  \fi
  \@ifnextchar [\@LTRxmpar\@LTRympar}
\long\def\@LTRxmpar[#1]#2{%
  \@LTRsavemarbox\@marbox{#1}%
  \@LTRsavemarbox\@currbox{#2}%
  \@xympar}
\long\def\@LTRympar#1{%
  \@LTRsavemarbox\@marbox{#1}%
  \global\setbox\@currbox\copy\@marbox
  \@xympar}
\long\def \@LTRsavemarbox #1#2{%
  \global\setbox #1%
    \color@vbox
      \vtop{%
        \hsize\marginparwidth
        \@parboxrestore
        \@LTRmarginparreset
        #2%
        \@minipagefalse
        \outer@nobreak
        }%
    \color@endbox
}
\def \@LTRmarginparreset {%
        \reset@font
        \normalsize
        \@minipagetrue
        \everypar{\@minipagefalse\everypar{}\beginL}%
}
\def\RTLmarginpar{%
  \ifhmode
    \@bsphack
    \@floatpenalty -\@Mii
  \else
    \@floatpenalty-\@Miii
  \fi
  \ifinner
    \@parmoderr
    \@floatpenalty\z@
  \else
    \@next\@currbox\@freelist{}{}%
    \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
```

```
      {\@floatpenalty\z@
       \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
  \fi
  \@ifnextchar [\@RTLxmpar\@RTLympar}
\long\def\@RTLxmpar[#1]#2{%
  \@RTLsavemarbox\@marbox{#1}%
  \@RTLsavemarbox\@currbox{#2}%
  \@xympar}
\long\def\@RTLympar#1{%
  \@RTLsavemarbox\@marbox{#1}%
  \global\setbox\@currbox\copy\@marbox
  \@xympar}
\long\def \@RTLsavemarbox #1#2{%
  \global\setbox #1%
    \color@vbox
      \vtop{%
        \hsize\marginparwidth
        \@parboxrestore
        \@RTLmarginparreset
        #2%
        \@minipagefalse
        \outer@nobreak
        }%
    \color@endbox
}
\def \@RTLmarginparreset {%
        \reset@font
        \normalsize
        \@minipagetrue
        \everypar{\@minipagefalse\everypar{}\beginR}%
}
\def\@addmarginpar{\@next\@marbox\@currlist{\@cons\@freelist\@marbox
    \@cons\@freelist\@currbox}\@latexbug\@tempcnta\@ne
    \if@twocolumn
        \if@firstcolumn \@tempcnta\m@ne \fi
    \else
      \if@mparswitch
         \ifodd\c@page \else\@tempcnta\m@ne \fi
      \fi
      \if@reversemargin \@tempcnta -\@tempcnta \fi
    \fi
    \ifnum\@tempcnta <\z@  \global\setbox\@marbox\box\@currbox \fi
    \@tempdima\@mparbottom
    \advance\@tempdima -\@pageht
    \advance\@tempdima\ht\@marbox
    \ifdim\@tempdima >\z@
      \@latex@warning@no@line {Marginpar on page \thepage\space moved}%
    \else
      \@tempdima\z@
    \fi
```

```
    \global\@mparbottom\@pageht
    \global\advance\@mparbottom\@tempdima
    \global\advance\@mparbottom\dp\@marbox
    \global\advance\@mparbottom\marginparpush
    \advance\@tempdima -\ht\@marbox
    \global\setbox \@marbox
                    \vbox {\vskip \@tempdima
                           \box \@marbox}%
    \global \ht\@marbox \z@
    \global \dp\@marbox \z@
    \kern -\@pagedp
    \nointerlineskip
    \hb@xt@\columnwidth
      {\if@RTL\if@LTRmarginpar\beginL\else\beginR\fi\else\if@RTLmarginpar\beginR\else\beginL\
          \hskip\columnwidth \hskip\marginparsep
       \else
          \hskip -\marginparsep \hskip -\marginparwidth
       \fi
       \box\@marbox \hss\if@RTL\if@LTRmarginpar\endL\else\endR\fi\else\if@RTLmarginpar\endR\e
    \nointerlineskip
    \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}}
\long\def\@ympar#1{%
  \@savemarbox\@marbox{\if@RTL\if@LTRmarginpar\@RTLfalse\else\@RTLtrue\fi\else\if@RTLmarginpa
  \global\setbox\@currbox\copy\@marbox
  \@xympar}
\def\setRTLmarginpar{\@RTLmarginpartrue\@LTRmarginparfalse}
\def\setLTRmarginpar{\@LTRmarginpartrue\@RTLmarginparfalse}
\def\setdefaultmarginpar{\@RTLmarginparfalse\@LTRmarginparfalse}
\def\@stopline{\unskip\@stopfield\if@rjfield \global\@rjfieldfalse
   \@tempdima\@totalleftmargin \advance\@tempdima\linewidth
\hbox to\@tempdima{\if@RTL\beginR\fi\@itemfudge\hskip\dimen\@curtabmar
   \box\@curline\hfil\box\@curfield\if@RTL\endR\fi}\else\@addfield
   \hbox to\linewidth{\if@RTL\beginR\fi\@itemfudge
   \hskip\dimen\@curtabmar\box\@curline\hfil\if@RTL\endR\fi}%
\fi}
\def\@outputpage{%
\begingroup           % the \endgroup is put in by \aftergroup
  \let \protect \noexpand
  \@resetactivechars
  \global\let\@@if@newlist\if@newlist
  \global\@newlistfalse
  \@parboxrestore
  \shipout \vbox{%
    \set@typeset@protect
    \aftergroup \endgroup
    \aftergroup \set@typeset@protect
                                % correct? or just restore by ending
                                % the group?
  \if@specialpage
    \global\@specialpagefalse\@nameuse{ps@\@specialstyle}%
```

```
  \fi
  \if@twoside
    \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot
         \let\@themargin\oddsidemargin
    \else \let\@thehead\@evenhead
       \let\@thefoot\@evenfoot \let\@themargin\evensidemargin
    \fi
    \ifx\@thehead\@empty \let\@thehead\hfil \fi
    \ifx\@thefoot\@empty \let\@thefoot\hfil \fi
    \else %% not @twoside
    \ifx\@oddhead\@empty \let\@thehead\hfil \fi
    \ifx\@oddfoot\@empty \let\@thefoot\hfil \fi
  \fi
  \reset@font
  \normalsize
  \normalsfcodes
  \let\label\@gobble
  \let\index\@gobble
  \let\glossary\@gobble
  \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
    \@begindvi
    \vskip \topmargin
    \moveright\@themargin \vbox {%
      \setbox\@tempboxa \vbox to\headheight{%
        \vfil
        \color@hbox
          \normalcolor
          \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thehead\if@
        \color@endbox
        }%                          %% 22 Feb 87
      \dp\@tempboxa \z@
      \box\@tempboxa
      \vskip \headsep
      \box\@outputbox
      \baselineskip \footskip
      \color@hbox
        \normalcolor
        \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thefoot\if@RT
      \color@endbox
      }%
    }%
  \global\let\if@newlist\@@if@newlist
  \global \@colht \textheight
  \stepcounter{page}%
  \let\firstmark\botmark
}
\long\def\@makecaption#1#2{%
  \vskip\abovecaptionskip
  \sbox\@tempboxa{#1: #2}%
  \ifdim \wd\@tempboxa >\hsize
```

```
    \if@RTL\beginR\fi#1: #2\if@RTL\endR\fi\par
  \else
    \global \@minipagefalse
    \hb@xt@\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}%
  \fi
  \vskip\belowcaptionskip}
\let\bidi@saved@eqno=\eqno
\let\bidi@saved@leqno=\leqno
\def\eqno{\ifnum\predisplaydirection<\z@ \bidi@saved@leqno \else \bidi@saved@eqno \fi}
\def\leqno{\ifnum\predisplaydirection<\z@ \bidi@saved@eqno \else \bidi@saved@leqno \fi}
\@ifpackageloaded{amsmath}{}{
\def\@eqnnum{{\normalfont \normalcolor \if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}
}
\input{footnote-xetex-bidi.def}
\if@twocolumn
  \let\autofootnoterule\relax
  \let\leftfootnoterule\relax
  \let\rightfootnoterule\relax
  \textwidthfootnoterule
\fi
\if@bidi@csundef{@idxitem}{}{%
\renewcommand\@idxitem{\par\hangindent \if@RTL-\fi40\p@}%
}
\@ifclassloaded{article}{\@ifclassloaded{svmult}{}{\input{article-xetex-bidi.def}}}{}
\@ifclassloaded{extarticle}{\input{extarticle-xetex-bidi.def}}{}
\@ifclassloaded{artikel1}{\input{artikel1-xetex-bidi.def}}{}
\@ifclassloaded{artikel2}{\input{artikel2-xetex-bidi.def}}{}
\@ifclassloaded{artikel3}{\input{artikel3-xetex-bidi.def}}{}
\@ifclassloaded{amsart}{\input{amsart-xetex-bidi.def}}{}
\@ifclassloaded{letter}{\input{letter-xetex-bidi.def}}{}
\@ifclassloaded{scrlettr}{\input{scrlettr-xetex-bidi.def}}{}
\@ifclassloaded{extletter}{\input{extletter-xetex-bidi.def}}{}
\@ifclassloaded{memoir}{\input{memoir-xetex-bidi.def}}{}
\@ifclassloaded{refrep}{\input{refrep-xetex-bidi.def}}{}
\@ifclassloaded{extreport}{\input{extreport-xetex-bidi.def}}{}
\@ifclassloaded{report}{\@ifpackageloaded{flowfram}{}{\input{report-xetex-bidi.def}}}{}
\@ifclassloaded{rapport1}{\input{rapport1-xetex-bidi.def}}{}
\@ifclassloaded{rapport3}{\input{rapport3-xetex-bidi.def}}{}
\@ifclassloaded{scrartcl}{\input{scrartcl-xetex-bidi.def}}{}
\@ifclassloaded{scrbook}{\input{scrbook-xetex-bidi.def}}{}
\@ifclassloaded{scrreprt}{\input{scrreprt-xetex-bidi.def}}{}
\@ifclassloaded{amsbook}{\input{amsbook-xetex-bidi.def}}{}
\@ifclassloaded{extbook}{\input{extbook-xetex-bidi.def}}{}
\@ifclassloaded{boek}{\input{boek-xetex-bidi.def}}{}
\@ifclassloaded{boek3}{\input{boek3-xetex-bidi.def}}{}
\@ifclassloaded{book}{\@ifpackageloaded{flowfram}{}{\input{book-xetex-bidi.def}}}{}
\@ifclassloaded{bookest}{\input{bookest-xetex-bidi.def}}{}
\@ifclassloaded{combine}{\input{combine-xetex-bidi.def}}{}
\@ifpackageloaded{amsmath}{}{%
\@iftagsloaded{leqno}{\input{leqno-xetex-bidi.def}}{}
```

```
\@iftagsloaded{fleqn}{\input{fleqn-xetex-bidi.def}}{}
}
\@ifpackageloaded{mathtools}{\RequirePackage{graphicx}}{}
\@ifpackageloaded{crop}{\RequirePackage{graphicx}}{}
\@ifpackageloaded{sidecap}{\RequirePackage{ragged2e}}{}
\@ifpackageloaded{floatrow}{\RequirePackage{color}}{}
\@ifpackageloaded{amsmath}{\input{amsmath-xetex-bidi.def}}{}
\@ifpackageloaded{amstext}{\input{amstext-xetex-bidi.def}}{}
\@ifpackageloaded{amsthm}{\input{amsthm-xetex-bidi.def}}{}
\@ifpackageloaded{breqn}{\input{breqn-xetex-bidi.def}}{}
\@ifpackageloaded{cals}{\input{cals-xetex-bidi.def}}{}
\@ifpackageloaded{caption}{\input{caption-xetex-bidi.def}}{}
\@ifpackageloaded{caption3}{\input{caption3-xetex-bidi.def}}{}
\@ifpackageloaded{floatrow}{\input{floatrow-xetex-bidi.def}}{}
\@ifpackageloaded{crop}{\@ifclassloaded{memoir}{}{\input{crop-xetex-bidi.def}}}{}
\@ifpackageloaded{color}{\input{color-xetex-bidi.def}}{}
\@ifpackageloaded{cutwin}{\input{cutwin-xetex-bidi.def}}{}
\@ifpackageloaded{cuted}{\input{cuted-xetex-bidi.def}}{}
\@ifpackageloaded{xcolor}{\input{xcolor-xetex-bidi.def}}{}
\@ifpackageloaded{colortbl}{\input{colortbl-xetex-bidi.def}}{}
\@ifpackageloaded{float}{\@ifpackageloaded{floatrow}{}{\input{float-xetex-bidi.def}}}{}
\@ifpackageloaded{flowfram}{\input{flowfram-xetex-bidi.def}}{}
\@ifpackageloaded{xltxtra}{\input{xltxtra-xetex-bidi.def}}{}
\@ifpackageloaded{wrapfig}{\input{wrapfig-xetex-bidi.def}}{}
\@ifpackageloaded{graphicx}{\input{graphicx-xetex-bidi.def}}{}
\@ifpackageloaded{geometry}{\input{geometry-xetex-bidi.def}}{}
\@ifpackageloaded{hvfloat}{\input{hvfloat-xetex-bidi.def}}{}
\@ifpackagewith{ntheorem}{amsmath}{%
\if@thmmarks
\gdef\SetTagPlusEndMark{%
        \iftagsleft@
          \gdef\maketag@@@##1{%
             \settowidth{\tagwidth}{$##1$}%%  %% WM 17.10.2007
             \hbox to \tagwidth{%
               \hbox to \displaywidth{\m@th\normalfont\if@Latin\else\beginR\fi##1\if@Latin\el
                                      \hss\PotEndMark{\hss}}\hss}}%
        \else
          \gdef\maketag@@@##1{\hbox{\m@th\normalfont\if@Latin\else\beginR\fi##1\if@Latin\else
                           \llap{\hss\PotEndMark{\raisebox{-1.3em}}}}}%
        \fi}
\fi}{}
\@ifpackageloaded{ntheorem}{\input{ntheorem-xetex-bidi.def}}{}
\@ifpackageloaded{hyperref}{\input{hyperref-xetex-bidi.def}}{}
\@ifpackageloaded{ntheorem-hyper}{\input{ntheorem-hyper-xetex-bidi.def}}{}
\@ifpackageloaded{fancybox}{\input{fancybox-xetex-bidi.def}}{}
\@ifpackageloaded{fancyhdr}{\input{fancyhdr-xetex-bidi.def}}{}
\@ifpackageloaded{fix2col}{\input{fix2col-xetex-bidi.def}}{}
\@ifpackageloaded{ftnright}{\input{ftnright-xetex-bidi.def}}{}
\@ifpackageloaded{midfloat}{\input{midfloat-xetex-bidi.def}}{}
```

```
\@ifpackageloaded{draftwatermark}{\input{draftwatermark-xetex-bidi.def}}{}
\@ifpackageloaded{dblfnote}{\input{dblfnote-xetex-bidi.def}}{}
\@ifpackageloaded{eso-pic}{\input{eso-pic-xetex-bidi.def}}{}
\@ifpackageloaded{empheq}{\input{empheq-xetex-bidi.def}}{}
\@ifpackageloaded{framed}{\input{framed-xetex-bidi.def}}{}
\@ifpackageloaded{pdfpages}{\input{pdfpages-xetex-bidi.def}}{}
\@ifpackageloaded{lettrine}{\input{lettrine-xetex-bidi.def}}{}
\@ifpackageloaded{listings}{\input{listings-xetex-bidi.def}}{}
\@ifpackageloaded{pstricks}{\input{pstricks-xetex-bidi.def}}{}
\@ifpackageloaded{pgf}{\input{pgf-xetex-bidi.def}}{}
\@ifpackageloaded{titlesec}{\input{titlesec-xetex-bidi.def}}{}
\@ifpackageloaded{titletoc}{\input{titletoc-xetex-bidi.def}}{}
\@ifpackageloaded{array}{\input{array-xetex-bidi.def}}{}
\@ifpackageloaded{sidecap}{\input{sidecap-xetex-bidi.def}}{}
\@ifpackagewith{sidecap}{innercaption}{%
\if@RTL  \renewcommand*{\SC@FLOAT}[2]{%
    \isSC@ODD{{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}}
  \renewcommand*\SC@justify@caption{%
    \isSC@ODD{\RaggedRight}{\RaggedLeft}}\else
  \renewcommand*{\SC@FLOAT}[2]{%
    \isSC@ODD{{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}}
  \renewcommand*\SC@justify@caption{%
    \isSC@ODD{\RaggedLeft}{\RaggedRight}}\fi
}{}
\@ifpackagewith{sidecap}{rightcaption}{%
  \if@RTL\renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
  \def\SC@justify@caption{\RaggedLeft}\else%
  \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
  \def\SC@justify@caption{\RaggedRight}\fi%
}{}
\@ifpackagewith{sidecap}{leftcaption}{%
\if@RTL  \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
  \def\SC@justify@caption{\RaggedRight}\else%
  \renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
  \def\SC@justify@caption{\RaggedLeft}\fi%
}{}
\@ifpackageloaded{stabular}{\input{stabular-xetex-bidi.def}}{}
\@ifpackageloaded{subfigure}{\input{subfigure-xetex-bidi.def}}{}
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9 Change History

v13.9
General: Added implementaion of the package. 1
v14.1
General: Defined `\maketag@@@` version of ntheorem package. . . 365
v14.2
General: Fixed the wrong order of toc, lot, lof, etc with multicol package. 264
v14.3
General: Removed `\leavevmode` to avoid extra `\par`. 121
v14.4
General: Implemented `\pause`. . . 126