

The LaTeX **memoir** class for configurable book typesetting: Code patches*

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Abstract

The **memoir** class is designed for typesetting general books such as novels, biographies, histories, and so on, although as it supports all the functionality of the standard **book** class it can also be used for technical writing. It provides more functions than the standard class as well as presenting a more friendly interface for the book designer. It can also simulate the typesetting style of the standard **article** class.

Because of its newness not all packages work well with **memoir**. Also, as more users beat on it, subtle flaws are discovered in **memoir** itself. Patching code is supplied to resolve known problems.

Code is also provided for new functionality that will later be folded into the class code.

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*This file (`mempatch.dtx`) has version number v6.0g, last revised 2010/04/19.

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1 Introduction

This document provides the commented source for packages that patch the LaTeX memoir class [Wil08]. This class is designed for typesetting general books such as novels, biographies, histories, and so on. It has all the functionality of the standard book class and, as well as providing some extra functions, also provides a more friendly interface for the document designer. As it can encompass everything that the book class provides it may also be used for technical writing.

Section 2 describes some administrative elements and code for general use later in the specification. The macros forming the package files are defined in section 3 and in section 4 onwards.

This manual is typeset according to the conventions of the L^AT_EX DOCSTRIP utility which enables the automatic extraction of the L^AT_EX macro source files [GMS94].

2 A driver for this document

The next series of code contains the documentation driver file for L^AT_EX, i.e., the file that will produce the documentation you are currently reading. This will be extracted from this file by the DOCSTRIP program.

```
1 (*driver)
2 \documentclass[twoside]{ltxdoc}
3 \usepackage{url}
```

We do want an index, using linenumbers, but not update information.

```
4 \makeatletter
5 \mparswitchfalse
6 \makeatother
7 \EnableCrossrefs
8 \CodelineIndex
9 %% \RecordChanges
```

Don't use the default Short Verb.

```
10 \AtBeginDocument{\DeleteShortVerb{\|}}
```

We had better have page headings to aid navigation, but I don't like Uppercased titles.

```
11 \renewcommand{\MakeUppercase}[1]{#1}
12 \pagestyle{headings}
```

Need more space for ToC subsection numbers

```
13 \makeatletter
14 \renewcommand*{\l@section}{\@dottedtocline{2}{1.5em}{3.2em}}
15
```

We may use many docstrip modules so we set the StandardModuleDepth counter to 1.

```
16 \setcounter{StandardModuleDepth}{1}
```

Some commonly used abbreviations

```

17 \newcommand*\Lopt}[1]{\textsf {#1}}           % typeset an option
18 \newcommand*\file}[1]{\texttt {#1}}           % typeset a file
19 \newcommand*\Lcount}[1]{\textsl {\small#1}}    % typeset a counter
20 \newcommand*\pstyle}[1]{\textsl {#1}}          % typeset a pagestyle
21 \newcommand*\Lenv}[1]{\texttt {#1}}            % typeset an environment
22 \newcommand*\Lpack}[1]{\textsf {#1}}           % typeset a package
23 \newcommand*\ctt{\textsc{ctt}}
24 \newcommand\Lclass}[1]{\textsf{#1}}
25 \newcommand\ledmac{\ledmac}
26 \newcommand\Ledmac{\Lpack{\ledmac}}
27 \newcommand\edmac{\texttt{EDMAC}}
28 \newcommand\tabmac{\texttt{TABMAC}}
29 \newcommand\PWcomment}[1]{ }
30 \newenvironment{PW}{\itshape}{ }
31 \renewenvironment{PW}{\sffamily}{ }
32 \newcommand\textbook{\textit{TeXbook}}
33 \newcommand\thetexbook{\textit{The TeXbook}}
34 \newcommand\egstart{ }
35 \newcommand\egmid{ }
36 \newcommand\egend{ }
37 \renewcommand\egstart{%
38   \par
39   \begingroup
40   \centering
41   \begin{minipage}{0.45\textwidth}}
42 \renewcommand\egmid{%
43   \end{minipage}\hfill\begin{minipage}{0.45\textwidth}}
44 \renewcommand\egend{%
45   \end{minipage}\par\endgroup}
We want the full details printed.
46 \begin{document}
47 \DocInput{mempatch.dtx}
48 \PrintIndex
49 %% \PrintChanges
50 \end{document}
51 \</driver>

```

3 Patches for hyperref and friends

The hyperref package [Rah02] is a marvel of macro coding but it does seem to have a habit of not working too well with classes or packages that contain anything out of the ordinary.

52 `<*hyper>`

The memhfixc package provides hyperref related temporary fixes and extensions for version v1.618 of the memoir class.

- hyperref fix for part and chapter entries in the ToC (v1.0)
- Other fixes as and when

Only use this package in conjunction with the hyperref package. Call the package without options after the hyperref package as:

```

\documentclass[...]{memoir}
...
\usepackage[...]{hyperref}
\usepackage{memhfixc}

53 %%
54 %% The memhfixc package provides hyperref related temporary
55 %% fixes and extensions for versions v1.618 and later of the memoir class.
56 %%     o hyperref fix for part and chapter entries in the ToC (v1.0)
57 %%     o Other fixes as and when
58 %%
59 %% Only use this package in conjunction with the hyperref package.
60 %% Call the package without options after the hyperref package as:
61 %% \documentclass[...]{memoir}
62 %% ...
63 %% \usepackage[...]{hyperref}
64 %% \usepackage{memhfixc}
65 %%
66 %% With thanks to Heiko Oberdiek, if you use hyperref dated 2006/11/15
67 %% or later, memhfixc will be automatically loaded after hyperref.
68 %%
69 %% Version 1.13 2010/04/19
70 %% Version 1.12 2009/02/06
71 %% Version 1.11 2009/01/18
72 %% Version 1.10 2008/08/23
73 %% Version 1.9 2006/11/22
74 %% Version 1.8 2006/01/21
75 %% Version 1.7 2005/11/15
76 %% Version 1.6 2004/05/13
77 %% Version 1.5 2003/10/14
78 %% Version 1.4 2003/09/26
79 %% Version 1.3 2003/02/20
80 %% Version 1.2 2003/02/02
81 %% Version 1.1 2003/01/22
82 %% Version 1.0 2002/10/22
83 %%
84 \ProvidesPackage{memhfixc}[2010/04/19 v1.13 nameref/hyperref package fixes for memoir]

\M@hfixcfinish The memhfixc package is only useful with the memoir class

85 \let\M@hfixcfinish\relax
86 \@ifclassloaded{memoir}{}%
87 {\let\M@hfixcfinish\endinput

```

```

88                                     \typeout{No memoir class: memhfixc does nothing}}
89 \M@hfixcfinish
90

```

3.1 Patches for nameref

The nameref package changes `\@sect` and `\label` so we bring back the memoir stuff. We have earlier been using `\AtBeginDocument` plus `\@ifpackageloaded{nameref}` to add our changes to nameref. But this is not a good solution, as `hyperref` can delay nameref loading using `\AtBeginDocument{\usepackage{nameref}}` and add thiis *after* `memhfixc` is loaded. A better solution is to use `\AtEndPackage`, then it does not matter how far after `memhfixc` `nameref` is loaded.

```

91 \AtEndPackage{nameref}{%

\M@sect The nameref package [Rah01] fiddles with \@sect (which memoir replaces by
\NR@sectm@m \@sect).

92 \ifundefined{NR@sectm@m}{% haven't fiddled with \@sect
93   \typeout{Redoing nameref's sectioning}
94   \let\NR@sectm@m\@sect
95   \def\M@sect##1##2##3##4##5##6[##7][##8]##9{%
96     \setcounter{section@level}{##2}%
97     \def\@currentlabelname{##7}%
98     \NR@sectm@m{##1}{##2}{##3}{##4}{##5}{##6}[[##7]][{##8}]{\Sectionformat{##9}{##2}}}%
99   }%
100   {% \NR@sectm@m has already been defined
101   }%

\label The nameref package replaces \label, which (which memoir has added to). Make
\MNR@label the memoir addition again.

102 \ifundefined{MNR@label}{% haven't fiddled with \label
103   \typeout{Redoing nameref's label}
104   \let\MNR@label\label
105   \def\label##1{\@bsphack\begin{group}
106     \protected@edef\@currentlabel{\protect\M@TitleReference
107       {\@currentlabel}{\M@currentTitle}}%
108     \MNR@label{##1}%
109     \endgroup \@esphack}%
110   \let\MNR@old@caption\@caption
111   \long\def\@caption##1[##2]##3{%
112     \MNR@old@caption{##1}[[##2]][##3}%
113     \def\@currentlabelname{##2}%
114     \M@getttitle{##2}%
115   }%
116   }%
117   {% \MNR@label has already been defined
118   }%

```

```

\nameref We use \titleref to provide the same functionality as \nameref, so as not to
confuse users, we let \nameref be an alias for \titleref.
119 \DeclareRobustCommand\nameref{\@ifstar{\@mem@titlerefno link}{\@mem@titleref}}
120 }% end of AtEndPackage

We are done unless the hyperref package has been loaded
121 %% We are done unless the hyperref package has been loaded
122 \@ifpackageloaded{hyperref}{}{\let\M@hfixcfinish\endinput}
123 \M@hfixcfinish
124

```

3.2 Patches for hyperref

```

\H@old@sbook Possibly this will provide some hyperref bookmarks support for the \book* doc-
\@sbook ument division (see page 206 in the Hypertext marks in LaTeX manual that I
processed on 2002/10/23 (cunningly it was internally dateless). It is based on hy-
perref's code for \@spart, which uses \H@old@spart to hold its original definition.
125 \let\H@old@sbook\@sbook
126 \def\@sbook#1{%
127   \H@old@sbook{#1}%
128   \Hy@GlobalStepCount\Hy@linkcounter
129   \xdef\@currentHref{book*.\the\Hy@linkcounter}%
130   \Hy@raisedlink{\hyper@anchorstart{\@currentHref}\hyper@anchorend}%
131 }
132

\Hy@captionsenglish Not sure what these do. I do know I have one version of hyperref that defines
\HyLang@english \Hy@captionsenglish and a later one that defines \HyLang@english instead.
133 \@ifundefined{Hy@captionsenglish}{}{%
134   \g@addto@macro{\Hy@captionsenglish}{\def\bookautorefname{Book}}
135 \@ifundefined{HyLang@english}{}{%
136   \g@addto@macro{\HyLang@english}{\def\bookautorefname{Book}}
137

\Hy@captionsgerman
\HyLang@german 138 \@ifundefined{Hy@captionsgerman}{}{%
139   \g@addto@macro{\Hy@captionsgerman}{\def\bookautorefname{Buch}}
140 \@ifundefined{HyLang@german}{}{%
141   \g@addto@macro{\HyLang@german}{\def\bookautorefname{Buch}}
142

\Hy@captionsportuges
\HyLang@portuges 143 \@ifundefined{Hy@captionsportuges}{}{%
144   \g@addto@macro{\Hy@captionsportuges}{\def\bookautorefname{Livro}}
145 \@ifundefined{HyLang@portuges}{}{%
146   \g@addto@macro{\HyLang@portuges}{\def\bookautorefname{Livro}}
147

```

```

\Hy@captionsspanish
\HyLang@spanish 148 \@ifundefined{Hy@captionsspanish}{\def\bookautorefname{Libro}}
149 \g@addto@macro{\Hy@captionsspanish}{\def\bookautorefname{Libro}}
150 \@ifundefined{HyLang@spanish}{\def\bookautorefname{Libro}}
151 \g@addto@macro{\HyLang@spanish}{\def\bookautorefname{Libro}}
152

\Hy@captionsafrikaans
\HyLang@afrikaans 153 \@ifundefined{Hy@captionsafrikaans}{\def\bookautorefname{Boek}}
154 \g@addto@macro{\Hy@captionsafrikaans}{\def\bookautorefname{Boek}}
155 \@ifundefined{HyLang@afrikaans}{\def\bookautorefname{Boek}}
156 \g@addto@macro{\HyLang@afrikaans}{\def\bookautorefname{Boek}}
157

\bookautorefname
158 \providecommand{\bookautorefname}{Book}
159

@@writetorep Change hyperref's @@writetorep as memoir uses \partnumberline and \chapternumberline
as well as the normal \numberline
160 \@ifpackagelater{hyperref}{2006/11/15}{%
161 }{%
162 \def@@writetorep#1#2#3#4#5{%
163 \begingroup
164 \def\Hy@tempa{#5}%
165 \ifx\Hy@tempa\Hy@bookmarkstype
166 \edef\Hy@level{#4}%
167 \ifx\Hy@levelcheck Y%
168 \@tempcnta\Hy@level\relax
169 \advance\@tempcnta by -1
170 \ifnum\Hy@currentbookmarklevel<\@tempcnta
171 \advance\@tempcnta by -\Hy@currentbookmarklevel\relax
172 \advance\@tempcnta by 1
173 \Hy@Warning{%
174 Difference (\the\@tempcnta) between bookmark levels is %
175 greater \MessageBreak than one, level fixed%
176 }%
177 \@tempcnta\Hy@currentbookmarklevel
178 \advance\@tempcnta by 1
179 \edef\Hy@level{\the\@tempcnta}%
180 \fi
181 \else
182 \global\let\Hy@levelcheck Y%
183 \fi
184 \global\let\Hy@currentbookmarklevel\Hy@level
185 \@tempcnta\Hy@level\relax
186 \expandafter\xdef\csname Parent\Hy@level\endcsname{#3}%
187 \advance\@tempcnta by -1
188 \edef\Hy@tempa{#3}

```

```

189 \edef\Hy@tempb{\csname Parent\the\@tempcnta\endcsname}%
190 \ifx\Hy@tempa\Hy@tempb
191   \Hy@Warning{%
192     The anchor of a bookmark and its parent's must not%
193     \MessageBreak be the same. Added a new anchor%
194   }%
195   \phantomsection
196 \fi
197 \ifHy@bookmarksnumbered
198   \let\numberline\Hy@numberline
199   \let\booknumberline\Hy@numberline      % <- added
200   \let\partnumberline\Hy@numberline      % <- added
201   \let\chapternumberline\Hy@numberline   % <- added
202 \else
203   \let\numberline\@gobble
204   \let\booknumberline\@gobble            % <- added
205   \let\partnumberline\@gobble            % <- added
206   \let\chapternumberline\@gobble         % <- added
207 \fi
208 \pdfstringdef\Hy@tempa{#2}%
209 \protected@write\@outlinefile{}{%
210   \protect\BOOKMARK
211   [\Hy@level][\@bookmarkopenstatus{\Hy@level}]{#3}%
212   {\Hy@tempa}{\Hy@tempb}%
213 }%
214 \fi
215 \endgroup}
216 }
217

```

\M@sect hyperref fix for memoir's redefinition of \@sect

```

218 \@ifundefined{H@old@sectm@m}{% haven't fiddled with \M@sect
219   \let\H@old@sectm@m\M@sect
220   \def\M@sect#1#2#3#4#5#6[#7][#8]#9{%
221     \ifnum #2>\c@secnumdepth
222       \Hy@GlobalStepCount\Hy@linkcounter
223       \xdef\@currentHref{section*.\the\Hy@linkcounter}%
224     \fi
225     \H@old@sectm@m{#1}{#2}{#3}{#4}{#5}{#6}[{#7}][{#8}]{#9}%
226     \ifnum #2>\c@secnumdepth
227       \Hy@raisedlink{\hyper@anchorstart{\@currentHref}\hyper@anchorend}%
228     \fi}%
229   }%
230   {% already fiddled \M@sect
231   }
232

```

\@resets@pp hyperref fix for memoir's appendices environment (discovered by Lars Hoemke, hoemke@nikocity.de, private email 20 Feb 2003)


```

233 \let\MH@old@resets@pp\@resets@pp
234 \renewcommand*{\@resets@pp}{%
235   \MH@old@resets@pp
236   \def\theHchapter{\Alph{chapter}}}
237
\@resets@ppsub hyperref fix for memoir's subappendices environment (Problem reported by Ignasi
                Furio, ignasi.furio@uib.es, private email 13 May 2004)
238 \let\MH@old@resets@ppsub\@resets@ppsub
239 \renewcommand*{\@resets@ppsub}{%
240   \MH@old@resets@ppsub
241   \def\theHsection{\theHchapter.\Alph{section}}}
242 \def\endsubappendices{\def\theHsection{\theHchapter.\arabic{section}}}
243
\cftaddtitleline hyperref fix for memoir's add to contents macros (discovered by Martin Siegm-
\cftaddnumtitleline feldt, CTT 2003/09/25 'Combinig [sic] Tocloft and hyperref'
244 \renewcommand{\cftaddtitleline}[4]{%
245   \addtocontents{#1}{\protect\contentsline{#2}{#3}{#4}{\@currentHref}}}
246 \renewcommand{\cftaddnumtitleline}[5]{\addtocontents{#1}{%
247   \protect\contentsline{#2}{\protect\numberline{#3}{#4}{#5}{\@currentHref}}}
248
\caption Yet another little jolly (fixed in version 1.5). hyperref's \def of \caption cunningly
          messes up memoir's, thereby screwing up the labels for subcaptions.
249 \let\m@moldhycaption\caption
250 \renewcommand{\caption}{\donemaincaptiontrue\m@moldhycaption}
251

          More tweaks are needed for continued captions and sidecaptions. The need for
          these discovered by Žarko F Čučej1 (for \contcaption) and by Jørgen Larsen2
          (for \sidecaption), and by Eitan Gurari (for tex4ht).

\c@memhyconfloat We need an extra marker for continued captions.
\thememhyconfloat
\theHmemhyconfloat
252 \newcounter{memhyconfloat}
253 \renewcommand*{\thememhyconfloat}{\arabic{memhyconfloat}}
254 \providecommand*{\theHmemhyconfloat}{}
255 \renewcommand*{\theHmemhyconfloat}{\arabic{memhyconfloat}}
256 \setcounter{memhyconfloat}{0}
257

\contcaption Tweak the \contcaption macro.
258 \renewcommand{\contcaption}{%
259   \refstepcounter{memhyconfloat}%
260   \addtocounter{\@captive}{\m@ne}\H@refstepcounter{\@captive}%
261   \contcaption\@captive}
262

```

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`\endsidecaption` Tweak the `sidecaption` environment. I don't know why it works but it took a lot of time trying all sorts of combinations of commands to get it to do so (if it really does).

```

263 \def\endsidecaption{%
264   \m@mscapend@fbox
265   \H@refstepcounter{\@capttype}%
266   \hyper@makecurrent{\@capttype}%
267   \m@mscaplabel
268   \begin{lrbox}{\m@mscap@capbox}%
269     \begin{minipage}[c]{\sidecapwidth}%
270       \sidecapstyle
271       \@caption\@capttype[\m@mscap@fortoc]{\m@mscap@forcap}%
272     \end{minipage}%
273   \end{lrbox}%
274   \m@mscapopboxes}
275
```

`\sidecontcaption` Tweaks for the `sidecontcaption` environment. Again it was a miss, miss, ... hit
`\endsidecontcaption` method to get something that appears to work.

```

276 \renewcommand*{\sidecontcaption}{%
277   \refstepcounter{memhycontfloat}%
278   \@sidecontcaption}
279 \def\endsidecontcaption{%
280   \m@mscapend@fbox
281   \addtocounter{\@capttype}{\m@ne}\H@refstepcounter{\@capttype}%
282   \hyper@makecurrent{memhycontfloat}%
283   \m@mscaplabel
284   \begin{lrbox}{\m@mscap@capbox}%
285     \begin{minipage}[c]{\sidecapwidth}%
286       \sidecapstyle
287       \@contcaption\@capttype{\m@mscap@forcap}%
288     \end{minipage}%
289   \end{lrbox}%
290   \m@mscapopboxes}
291
```

`\@mem@titlerefno link` `hyperref` provide a `\ref*` command that does not give a hyperlink under `hyperref`, we extend `\titleref` to support it.

```

292 \def\@mem@titlerefno link#1{\begingroup \let\numberline\@gobble
293   \let\M@TitleReference\@mem@theTR % interrupt recursion of \ref
294   \ref*{#1}\endgroup}
295
```

The end of the `hyperref` related patches.

```

296 </hyper>

```

4 Patches for the class code

At this date, 2008/07/23, with the simultaneous release of memoir v1.6180339 and the patch file, by definition there are no patches.

4.1 Identification

```

297 <*patch>
298 \ProvidesPackage{mempatch}[2009/07/24 v6.0f Patches for memoir class v1.6180339]
299
300 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
301 %%      Version 6.0 was released simultaneously with version 1.6180339
302 %% of memoir.
303 %% By definition there were no patches.
304 %%
305 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
306
      The end of the patch file.
307 </patch>

```

References

- [GMS94] Michel Goossens, Frank Mittelbach, and Alexander Samarin. *The LaTeX Companion*. Addison-Wesley Publishing Company, 1994.
- [Rah01] Sebastian Rahtz. *Section name references in LaTeX*. January 2001. (Available from CTAN in `/macros/latex/contrib/hyperref`)
- [Rah02] Sebastian Rahtz. *Hypertext marks in LaTeX*. March 2002. (Available from CTAN in `/macros/latex/contrib/hyperref`)
- [Wil08] Peter Wilson. *The LaTeX memoir class for configurable typesetting: Source code*. July 2008. (Available from CTAN in `macros/latex/contrib/memoir`)

Index

Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.

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