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 LaTeX DOCSTRIP utility which enables the automatic extraction of the LaTeX macro source files [GMS94].

2 A driver for this document

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

```
⟨*driver⟩
\documentclass[twoside]{ltxdoc}
\usepackage{url}
```

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

```
\makeatletter
  \@mparswitchfalse
\makeatother
\EnableCrossrefs
\CodelineIndex
%% \RecordChanges
```

Don't use the default Short Verb.

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

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

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

Need more space for ToC subsection numbers

```
\makeatletter
\renewcommand*{\l@subsection}{\@dottedtocline{2}{1.5em}{3.2em}}

```

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

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

Some commonly used abbreviations

```
\newcommand*{\Lopt}[1]{\textsf {#1}}            % typeset an option
\newcommand*{\file}[1]{\texttt {#1}}            % typeset a file
\newcommand*{\Lcount}[1]{\textsl {\small#1}}    % typeset a counter
\newcommand*{\pstyle}[1]{\textsl {#1}}          % typeset a pagestyle
\newcommand*{\Lenv}[1]{\texttt {#1}}            % typeset an environment
\newcommand*{\Lpack}[1]{\textsf {#1}}           % typeset a package
\newcommand*{\ctt}{\textsc{ctt}}
\newcommand{\Lclass}[1]{\textsf{#1}}
\newcommand{\ledmac}{ledmac}
\newcommand{\Ledmac}{\Lpack{\ledmac}}
\newcommand{\edmac}{\texttt{EDMAC}}
\newcommand{\tabmac}{\texttt{TABMAC}}
\newcommand{\PWcomment}[1]{}
\newenvironment{PW}{\itshape}{}
\renewenvironment{PW}{\sffamily}{}
\newcommand{\texbook}{\textit{TeXbook}}
\newcommand{\thetexbook}{\textit{The TeXbook}}
\newcommand{\egstart}{}
\newcommand{\egmid}{}
\newcommand{\egend}{}
\renewcommand{\egstart}{%
   \par
   \begingroup
   \centering
   \begin{minipage}{0.45\textwidth}}
\renewcommand{\egmid}{%
   \end{minipage}\hfill\begin{minipage}{0.45\textwidth}}
\renewcommand{\egend}{%
   \end{minipage}\par\endgroup}
```

We want the full details printed.

```
\begin{document}
\DocInput{mempatch.dtx}
\PrintIndex
%% \PrintChanges
\end{document}
```

⟨/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.

⟨*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}
```

```
%%
%% The memhfixc package provides hyperref related temporary
%% fixes and extensions for versions v1.618 and later of the memoir class.
%%     o hyperref fix for part and chapter entries in the ToC (v1.0)
%%     o 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}
%%
%% With thanks to Heiko Oberdiek, if you use hyperref dated 2006/11/15
%% or later, memhfixc will be automatically loaded after hyperref.
%%
%% Version 1.13  2010/04/19
%% Version 1.12  2009/02/06
%% Version 1.11  2009/01/18
%% Version 1.10  2008/08/23
%% Version 1.9  2006/11/22
%% Version 1.8  2006/01/21
%% Version 1.7  2005/11/15
%% Version 1.6  2004/05/13
%% Version 1.5  2003/10/14
%% Version 1.4  2003/09/26
%% Version 1.3  2003/02/20
%% Version 1.2  2003/02/02
%% Version 1.1  2003/01/22
%% Version 1.0  2002/10/22
%%
\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

```
\let\M@hfixcfinish\relax
\@ifclassloaded{memoir}{}%
                        {\let\M@hfixcfinish\endinput
```

```
                          \typeout{No memoir class: memhfixc does nothing}}
\M@hfixcfinish

```

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.

```
\AtEndPackage{nameref}{%
```

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

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

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

```
  \@ifundefined{MNR@label}{% haven't fiddled with \label
    \typeout{Redoing nameref's label}
    \let\MNR@label\label
    \def\label##1{\@bsphack\begingroup
      \protected@edef\@currentlabel{\protect\M@TitleReference
        {\@currentlabel}{\M@currentTitle}}%
      \MNR@label{##1}%
      \endgroup \@esphack}%
    \let\MNR@old@caption\@caption
    \long\def\@caption##1[##2]##3{%
      \MNR@old@caption{##1}[{##2}]{##3}%
      \def\@currentlabelname{##2}%
      \M@gettitle{##2}%
    }%
  }%
  {% \MNR@label has already been defined
  }%
```

\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.

```
\DeclareRobustCommand\nameref{\@ifstar{\@mem@titlerefnolink}{\@mem@titleref}}
}% end of AtEndPackage
```

We are done unless the hyperref package has been loaded

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

3.2 Patches for hyperref

\H@old@sbook \@sbook Possibly this will provide some hyperref bookmarks support for the \book* document 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 hyperref's code for \@spart, which uses \H@old@spart to hold its original definition.

```
\let\H@old@sbook\@sbook
\def\@sbook#1{%
  \H@old@sbook{#1}%
  \Hy@GlobalStepCount\Hy@linkcounter
  \xdef\@currentHref{book*.\the\Hy@linkcounter}%
  \Hy@raisedlink{\hyper@anchorstart{\@currentHref}\hyper@anchorend}%
}
```

\Hy@captionsenglish \HyLang@english Not sure what these do. I do know I have one version of hyperref that defines \Hy@captionsenglish and a later one that defines \HyLang@english instead.

```
\@ifundefined{Hy@captionsenglish}{}{%
  \g@addto@macro{\Hy@captionsenglish}{\def\bookautorefname{Book}}}
\@ifundefined{HyLang@english}{}{%
  \g@addto@macro{\HyLang@english}{\def\bookautorefname{Book}}}
```

\Hy@captionsgerman \HyLang@german

```
\@ifundefined{Hy@captionsgerman}{}{%
  \g@addto@macro{\Hy@captionsgerman}{\def\bookautorefname{Buch}}}
\@ifundefined{HyLang@german}{}{%
  \g@addto@macro{\HyLang@german}{\def\bookautorefname{Buch}}}
```

\Hy@captionsportuges \HyLang@portuges

```
\@ifundefined{Hy@captionsportuges}{}{%
  \g@addto@macro{\Hy@captionsportuges}{\def\bookautorefname{Livro}}}
\@ifundefined{HyLang@portuges}{}{%
  \g@addto@macro{\HyLang@portuges}{\def\bookautorefname{Livro}}}
```

\Hy@captionsspanish
\HyLang@spanish
```
\@ifundefined{Hy@captionsspanish}{}{%
  \g@addto@macro{\Hy@captionsspanish}{\def\bookautorefname{Libro}}}
\@ifundefined{HyLang@spanish}{}{%
  \g@addto@macro{\HyLang@spanish}{\def\bookautorefname{Libro}}}
```

\Hy@captionsafrikaans
\HyLang@afrikaans
```
\@ifundefined{Hy@captionsafrikaans}{}{%
  \g@addto@macro{\Hy@captionsafrikaans}{\def\bookautorefname{Boek}}}
\@ifundefined{HyLang@afrikaans}{}{%
  \g@addto@macro{\HyLang@afrikaans}{\def\bookautorefname{Boek}}}
```

\bookautorefname
```
\providecommand{\bookautorefname}{Book}
```

\@@writetorep

Change hyperref's `\@@writetorep` as memoir uses `\partnumberline` and `\chapternumberline` as well as the normal `\numberline`

```
\@ifpackagelater{hyperref}{2006/11/15}{%
}{%
\def\@@writetorep#1#2#3#4#5{%
  \begingroup
    \def\Hy@tempa{#5}%
    \ifx\Hy@tempa\Hy@bookmarkstype
      \edef\Hy@level{#4}%
      \ifx\Hy@levelcheck Y%
        \@tempcnta\Hy@level\relax
        \advance\@tempcnta by -1
        \ifnum\Hy@currentbookmarklevel<\@tempcnta
          \advance\@tempcnta by -\Hy@currentbookmarklevel\relax
          \advance\@tempcnta by 1
          \Hy@Warning{%
            Difference (\the\@tempcnta) between bookmark levels is %
            greater \MessageBreak than one, level fixed%
          }%
          \@tempcnta\Hy@currentbookmarklevel
          \advance\@tempcnta by 1
          \edef\Hy@level{\the\@tempcnta}%
        \fi
      \else
        \global\let\Hy@levelcheck Y%
      \fi
      \global\let\Hy@currentbookmarklevel\Hy@level
      \@tempcnta\Hy@level\relax
      \expandafter\xdef\csname Parent\Hy@level\endcsname{#3}%
      \advance\@tempcnta by -1
      \edef\Hy@tempa{#3}
```

```
      \edef\Hy@tempb{\csname Parent\the\@tempcnta\endcsname}%
      \ifx\Hy@tempa\Hy@tempb
        \Hy@Warning{%
          The anchor of a bookmark and its parent's must not%
          \MessageBreak be the same. Added a new anchor%
        }%
        \phantomsection
      \fi
      \ifHy@bookmarksnumbered
        \let\numberline\Hy@numberline
        \let\booknumberline\Hy@numberline     % <- added
        \let\partnumberline\Hy@numberline     % <- added
        \let\chapternumberline\Hy@numberline  % <- added
      \else
        \let\numberline\@gobble
        \let\booknumberline\@gobble           % <- added
        \let\partnumberline\@gobble           % <- added
        \let\chapternumberline\@gobble        % <- added
      \fi
      \pdfstringdef\Hy@tempa{#2}%
      \protected@write\@outlinefile{}{%
        \protect\BOOKMARK
          [\Hy@level][\@bookmarkopenstatus{\Hy@level}]{#3}%
          {\Hy@tempa}{\Hy@tempb}%
      }%
    \fi
  \endgroup}
}

```

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

```
\@ifundefined{H@old@sectm@m}{% haven't fiddled with \M@sect
  \let\H@old@sectm@m\M@sect
  \def\M@sect#1#2#3#4#5#6[#7][#8]#9{%
    \ifnum #2>\c@secnumdepth
      \Hy@GlobalStepCount\Hy@linkcounter
      \xdef\@currentHref{section*.\the\Hy@linkcounter}%
    \fi
    \H@old@sectm@m{#1}{#2}{#3}{#4}{#5}{#6}[{#7}][{#8}]{#9}%
    \ifnum #2>\c@secnumdepth
     \Hy@raisedlink{\hyper@anchorstart{\@currentHref}\hyper@anchorend}%
    \fi}%
  }%
  {% already fiddled \M@sect
  }

```

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

```
\let\MH@old@resets@pp\@resets@pp
\renewcommand*{\@resets@pp}{%
  \MH@old@resets@pp
  \def\theHchapter{\Alph{chapter}}}
```

\@resets@ppsub

hyperref fix for memoir's subappendices environment (Problem reported by Ignasi Furio, ignasi.furio@uib.es, private email 13 May 2004)

```
\let\MH@old@resets@ppsub\@resets@ppsub
\renewcommand*{\@resets@ppsub}{%
  \MH@old@resets@ppsub
  \def\theHsection{\theHchapter.\Alph{section}}}
\def\endsubappendices{\def\theHsection{\theHchapter.\arabic{section}}}
```

\cftaddtitleline
\cftaddnumtitleline

hyperref fix for memoir's add to contents macros (discovered by Martin Siegumfeldt, CTT 2003/09/25 *'Combinig [sic] Tocloft and hyperref'*

```
\renewcommand{\cftaddtitleline}[4]{%
  \addtocontents{#1}{\protect\contentsline{#2}{#3}{#4}{\@currentHref}}}
\renewcommand{\cftaddnumtitleline}[5]{\addtocontents{#1}{%
  \protect\contentsline{#2}{\protect\numberline{#3}#4}{#5}{\@currentHref}}}
```

\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.

```
\let\m@moldhypcaption\caption
\renewcommand{\caption}{\donemaincaptiontrue\m@moldhypcaption}
```

More tweaks are needed for continued captions and sidecaptions. The need for these discovered by Žarko F Čučej[1] (for \contcaption) and by Jørgen Larsen[2] (for \sidecaption), and by Eitan Gurari (for tex4ht).

\c@memhycontfloat
\thememhycontfloat
\theHmemhycontfloat

We need an extra marker for continued captions.

```
\newcounter{memhycontfloat}
\renewcommand*{\thememhycontfloat}{\arabic{memhycontfloat}}
\providecommand*{\theHmemhycontfloat}{}
\renewcommand*{\theHmemhycontfloat}{\arabic{memhycontfloat}}
\setcounter{memhycontfloat}{0}
```

\contcaption

Tweak the \contcaption macro.

```
\renewcommand{\contcaption}{%
  \refstepcounter{memhycontfloat}%
  \addtocounter{\@captype}{\m@ne}\H@refstepcounter{\@captype}%
  \@contcaption\@captype}
```

[1] zarko.cucej@uni-mb.si
[2] jl@ruc.dk

\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).

```
\def\endsidecaption{%
  \m@mscapend@fbox
  \H@refstepcounter{\@captype}%
  \hyper@makecurrent{\@captype}%
  \m@mscaplabel
  \begin{lrbox}{\m@mscap@capbox}%
    \begin{minipage}[c]{\sidecapwidth}%
      \sidecapstyle
      \@caption\@captype[\m@mscap@fortoc]{\m@mscap@forcap}%
    \end{minipage}%
  \end{lrbox}%
  \m@mscapopboxes}

```

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

```
\renewcommand*{\sidecontcaption}{%
  \refstepcounter{memhycontfloat}%
  \@sidecontcaption}
\def\endsidecontcaption{%
  \m@mscapend@fbox
  \addtocounter{\@captype}{\m@ne}\H@refstepcounter{\@captype}%
  \hyper@makecurrent{memhycontfloat}%
  \m@mscaplabel
  \begin{lrbox}{\m@mscap@capbox}%
    \begin{minipage}[c]{\sidecapwidth}%
      \sidecapstyle
      \@contcaption\@captype{\m@mscap@forcap}%
    \end{minipage}%
  \end{lrbox}%
  \m@mscapopboxes}

```

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

```
\def\@mem@titlerefnolink#1{\begingroup \let\numberline\@gobble
  \let\M@TitleReference\@mem@theTR % interrupt recursion of \ref
  \ref*{#1}\endgroup}

```

The end of the hyperref related patches.

⟨/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`)

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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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