The hypdoc package

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Abstract

This package adds hyper features to the package doc that is used in the documentation system of IATEX $2_{\mathcal{E}}$. Bookmarks are added and references are linked as far as possible.

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1 Features

The package adds the following features:

Bookmarks: For supporting bookmarks package hyperref is loaded. Some TEX code inside section titles can cause problems during bookmark processing; these can be warnings, ugly bookmark titles or even errors. With the help of \pdfstringdefDisableCommands or \texorpdfstring you can manage these things, see hyperref's package documentation.

Additional bookmarks: Unnumbered bookmark entries are generated for:

- Table of contents
- List of figures
- List of tables
- Index
- Glossary

Option numbered controls, whether these section or chapters should be numbered. The exception is the table of contents if this it would be the first numbered section. Then just a bookmark is added.

Metadata: The loaded package hyperref, enforced by option pdfusetitle, tries to detect \title and \author and sets the corresponding PDF information fields. In case of problems see the previous item about bookmarks. These enries can be overwritten or new ones added by \hypersetup after the packages is loaded, see documentation of package hyperref.

References, links: Because of package \hyperref \ref become links, also \url, footnote referencing are supported.

Index: The main part of this package deals with index links in order to support the kind of index that package doc provides.

Thumbnails: Package thumbpdf is loaded for the case that the PDF file also should contain thumbnails, see the documentation of this package. But thumbnail embedding is not really necessary, because nowadays AcrobatReader is able to generate and view thumbnails on the fly.

2 Usage

The purpose of this packages is to add PDF features to the documentation of LaTeX packages. Thus just load the package in the driver file that generates the documentation:

```
\usepackage{hypdoc}
```

Package doc is loaded by hypdoc, thus you also can replace a \usepackage{doc} with this line. At any case, the package must be loaded before macros of package doc such as \CodelineIndex or \PageIndex are used.

If the class ltxdoc is used, you can also use the configuration file for this class to add package hypdoc. Add the following line to the file ltxdoc.cfg (or create a new one):

\AtEndOfClass{\RequirePackage{hypdoc}}

2.1 Options

There is one option numbered. It controls, whether the starred versions of section or chapter inside \tableofcontents, \listoffigures, ...should be replaced by the non-star versions.

2.2 Simple example

Example of a simple driver file foobar.drv of a package foobar. Often the driver file is packed in the file foobar.dtx and can be extracted by docstrip or if an instruction file for docstrip is provided by:

```
tex foobar.ins
```

Note that although docstrip doesn't rely on LATEX, sometimes you need to run the .ins file through LATEX. Oddly enough, often the only LATEX feature in use is \NeedsTeXFormat{LaTeX2e} in the first line.

```
\documentclass{ltxdoc}
\usepackage{hypdoc}
\RecordChanges
\EnableCrossrefs
\CodelineIndex
\begin{document}
\title{Title for package \texttt{foobar}}
\author{Author of package \texttt{foobar}}
\date{...}
\maketitle
\tableofcontents
\DocInput{foobar.dtx}
\PrintChanges
\PrintIndex
\end{document}
```

Then compile it, for example with pdfLATEX.

```
pdflatex foobar.drv
makeindex -s gind.ist foobar.idx
makeindex -s gglo.ist -o foobar.gls foobar.glo
pdflatex foobar.drv
```

You will need several cycles until the cross references and similar things are correct.

2.3 Example source2e.tex

The source code of the base of LATEX is available as a bunch of .dtx files. LATEX provides the file source2e.tex to merge them all together.

Now you can either load package hypdoc in a private copy of this file (please, respect the LPPL) or use the configuration file ltxdoc.cfg. Example that also sets A4 paper size:

```
\PassOptionsToClass{a4paper}{article} 
\AtEndOfClass{\RequirePackage{hypdoc}}
```

Then source2e.tex can be compiled by pdfTFX, for example:

```
pdflatex source2e
makeindex -s gind.ist source2e.idx
makeindex -s gglo.ist -o source2e.glo source2e.gls
pdflatex source2e
makeindex -s gind.ist source2e.idx
makeindex -s gglo.ist -o source2e.glo source2e.gls
pdflatex source2e
```

3 Implementation

```
1 (*package)
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{hypdoc}%
4 [2011/08/19 v1.11 Hyper extensions for doc.sty (HO)]%
```

The package identification is done at the top of the .dtx file in order to use only one identification string.

For unique command names this package uses HD@ as prefix

3.1 Options

\ifHD@numbered

```
5 \newif\ifHD@numbered
6 \DeclareOption{numbered}{\HD@numberedtrue}
7 \ProcessOptions*\relax
```

3.2 Package loading

```
{\tt 8 \ \ \ \ \ \ \ } [2010/03/24]
9 \RequirePackage{doc}
10 \ifx\numexpr\@undefined
11
   \RequirePackage{calc}%
12 \fi
13 \RequirePackage[%
14 hyperindex=false,%
15
   pdfusetitle,%
   colorlinks,%
16
17
   pdfpagelabels%
18 ]{hyperref}[2002/05/09]%
19 \hypersetup{%
20 plainpages=false,%
   bookmarksopen,%
22 bookmarksnumbered, %
23 bookmarksopenlevel=0,%
24
   pdfstartview={FitBH \hypercalcbp{%
      \paperheight-\topmargin-lin-\headheight-\headsep
25
26
   }},%
27 }
28 \RequirePackage{thumbpdf}
```

```
29 \newcounter{HD@unique}
            \theHD@unique
                             30 \renewcommand{\theHD@unique}{%
                                 \number\value{HD@unique}%
                             32 }
                             33 \g@addto@macro\Hy@UseMaketitleInfos{%
                                 \@ifundefined{fileinfo}{}{%
                             34
                             35
                                   \ifx\@pdfsubject\@empty
                                     \hypersetup{pdfsubject={\fileinfo}}%
                             36
                                   \fi
                             37
                                 }%
                             38
                             39 }
                             40 \pdfstringdefDisableCommands{%
                                 \let\thanks\@gobble
                             41
                             42
                                \let\footnote\@gobble
                             43
                                \def\cs#1{\textbackslash #1}%
                             44
                                \let\normalfont\@empty
                             45
                                \let\scshape\@empty
                             46
                                 \def\and{and }%
                             47 }
                            3.2.1 Patch for bug latex/4096
                             48 \begingroup\expandafter\expandafter\expandafter\endgroup
                             49 \expandafter\ifx\csname mod@math@codes\endcsname\relax
                             50 \else
                             51
                                 \def\HD@ModFix#1{%
                                   \mathcode`#1=`#1\relax
                            52
                                 }%
                             53
                                 \g@addto@macro\mod@math@codes{%
                             54
                             55
                                   \HD@ModFix\-%
                                   \HD@ModFix\+%
                             56
                                   \HD@ModFix\:%
                             57
                             58
                                   \HD@ModFix\=%
                             59
                                   \HD@ModFix\*%
                             60
                                }%
                             61 \fi
                                 Bookmarks
                            3.3
         \HD@sectionpatch
                             62 \def\HD@sectionpatch{%
                             63
                                 \ifHD@numbered
                             64
                                   \HD@@sectionpatch{section}%
                                   \HD@@sectionpatch{chapter}%
                             65
                             66
                                 \else
                                   \let\Hy@writebookmark\HD@disable@writebookmark
                             67
                                 \fi
                             68
                             69 }
        \HD@@sectionpatch
                             70 \def\HD@@sectionpatch#1{%
                                 \expandafter\let\csname HDorg@@#1\expandafter\endcsname
                             71
                                   \csname #1\endcsname
                             72
                                 \@namedef{#1}{%
                             73
                                   \@ifstar{\@nameuse{HDorg@@#1}}{\@nameuse{HDorg@@#1}}%
                             74
                             75
                             76 }
\HD@disable@writebookmark
```

77 \def\HD@disable@writebookmark#1#2#3#4#5{}

\HD@guesstoclevel

A wild guessing of the toclevel. There is the hope, that the macro #1 starts with a sectioning command.

```
78 \def\HD@guesstoclevel#1{%
79 \expandafter\HD@guesstoclevel#1\section\HD@end
80 }
```

\HD@@guesstoclevel

```
81 \def\HD@@guesstoclevel#1#2\HD@end{%

82 \@ifundefined{toclevel@\expandafter\@gobble\string#1\@empty}{%

83  1%

84 }{%

85 \@nameuse{toclevel@\expandafter\@gobble\string#1\@empty}%

86 }%

87 }
```

3.4 \tableofcontents

\HDorg@tableofcontents

88 \let\HDorg@tableofcontents\tableofcontents

\tableofcontents

As first section the table of contents shouldn't go into the toc itself. Also a number looks too funny then. Just a bookmark is enough in this case.

```
89 \def\tableofcontents{%
90
     \begingroup
       \@ifundefined{c@section}{%
 91
          \def\c@section{0}%
 92
       }{}%
 93
 94
     \expandafter\endgroup
 95
     \ifcase\c@section
 96
       \stepcounter{HD@unique}%
       \pdfbookmark[\HD@guesstoclevel{\HDorg@tableofcontents}]%
 97
            {\contentsname}{toc\theHD@unique}%
 98
       \HDorg@tableofcontents
 99
100
     \else
       \ifHD@numbered
101
102
          \stepcounter{HD@unique}%
103
          \pdfbookmark[\HD@guesstoclevel{\HDorg@tableofcontents}]%
104
105
              {\contentsname}{toc\theHD@unique}%
106
       \begingroup
107
         \HD@sectionpatch
108
         \HDorg@tableofcontents
109
110
       \endgroup
     \fi
111
112 }
```

3.5 \listoffigures

\HDorg@listoffigures

113 \let\HDorg@listoffigures\listoffigures

\listoffigures

```
114 \def\listoffigures{%
115  \ifthOnumbered
116  \else
117  \stepcounter{HDQunique}%
118  \pdfbookmark[\HDQguesstoclevel{\HDorgQlistoffigures}]%
119      {\contentsname}{toc\theHDQunique}%
120  \fi
121  \begingroup
```

```
122
                                \HD@sectionpatch
                                \HDorg@listoffigures
                         123
                         124
                              \endgroup
                         125 }
                         3.6
                               \listoftables
   \HDorg@listoftables
                         126 \let\HDorg@listoftables\listoftables
         \listoftables
                         127 \def\listoftables{%
                             \ifHD@numbered
                         128
                              \else
                         129
                                \stepcounter{HD@unique}%
                         130
                                \pdfbookmark[\HD@guesstoclevel{\HDorg@listoftables}]%
                         131
                         132
                                    {\contentsname}{toc\theHD@unique}%
                         133
                         134
                              \begingroup
                                \HD@sectionpatch
                         135
                         136
                                \HDorg@listoftables
                         137
                              \endgroup
                         138 }
                         3.7
                               \thebibliography
\HDorg@thebibliography
                         139 \let\HDorg@thebibliography\thebibliography
      \thebibliography
                         140 \def\thebibliography{%
                             \ifHD@numbered
                         141
                              \else
                         142
                         143
                                \stepcounter{HD@unique}%
                                \pdfbookmark[\HD@guesstoclevel{\HDorg@thebibliography}]%
                         144
                                  {\@ifundefined{chapter}{\refname}{\bibname}}{bib\theHD@unique}%
                         145
                              \fi
                         146
                         147
                              \HD@sectionpatch
                         148
                              \HDorg@thebibliography
                         149 }
                               \theindex
                         3.8
       \HDorg@theindex
                         150 \let\HDorg@theindex\theindex
             \theindex
                         151 \def\theindex{%
                              \let\HDorg@index@prologue\index@prologue
                         152
                              \let\HDorg@writebookmark\Hy@writebookmark
                         153
                              \HD@sectionpatch
                         154
                              \g@addto@macro\IndexParms{%
                         155
                                \ifHD@numbered
                         156
                         157
                         158
                                  \let\Hy@writebookmark\HDorg@writebookmark
                         159
                         160
                                \let\bfseries\HD@bfseries
                              }%
                         161
                              \edef\HD@toclevel@index{\HD@guesstoclevel{\index@prologue}}%
                         162
                         163
                              \begingroup
                                \count@=\HD@toclevel@index\relax
                         164
```

```
\advance\count@ by 1 %
                                                        165
                                                                            \xdef\HD@toclevel@subindex{\the\count@}%
                                                        166
                                                        167
                                                                      \endgroup
                                                                      \def\index@prologue{%
                                                        168
                                                        169
                                                                            \ifHD@numbered
                                                        170
                                                                            \else
                                                        171
                                                                                  \begingroup
                                                                                       \stepcounter{HD@unique}%
                                                        172
                                                                                       \verb|\label{thm:def:horg@writebookmark|} Let \end{|\label{thm:horg@writebookmark|} Let \end{|\label{thm:horg@writebookmark|}} \end{|\label{thm:horg@writebookmark|} Let \end{|\label{thm:horg@writebookmark|}} \end{|\label{thm:horgwark|}} \end{|\labell{thm:horgwark|}} \end{|\labell{horgwark|}} \end{|\labell{horgwark|}} \end{|\labell{horgwark|}} \end{|\labell{horgwark|}} \end{|\labell{horgwark|}} \end{|\labell{horgwark|}} \end{|\labell{horgwark|}} \
                                                        173
                                                                                       \pdfbookmark[\HD@toclevel@index]%
                                                        174
                                                                                                   {\indexname}{index\theHD@unique}%
                                                        175
                                                                                 \endgroup
                                                        176
                                                                            \fi
                                                        177
                                                                            \HDorg@index@prologue
                                                        178
                                                        179
                                                        180
                                                                      \HDorg@theindex
                                                        181 }
        \HDorg@bfseries
                                                        182 \let\HDorg@bfseries\bfseries
                \HD@bfseries
                                                        183 \def\HD@bfseries{\futurelet\HD@hfil\HD@@bfseries}%
             \HD@@bfseries
                                                        184 \def\HD@@bfseries{%
                                                        185
                                                                      \HDorg@bfseries
                                                                      \ifx\HD@hfil\hfil
                                                        186
                                                                            \expandafter\HD@@@bfseries
                                                        187
                                                                    \fi
                                                        188
                                                        189 }
           \HD@@@bfseries
                                                        190 \def\HD@@@bfseries\hfil#1\hfil{%
                                                        191
                                                                      \ifx\\#1\\%
                                                        192
                                                                      \else
                                                                            \raisebox{\baselineskip}[0pt]{%
                                                        193
                                                                                  \kern-\HD@margin\relax
                                                        194
                                                                                  \pdfbookmark[\HD@toclevel@subindex]{#1}{HD.#1}%
                                                        195
                                                                                  \kern\HD@margin\relax
                                                        196
                                                                           }%
                                                        197
                                                                     \fi
                                                        198
                                                                      \hfil#1\hfil
                                                        200 }%
                      \HD@margin
                                                        201 \def\HD@margin{1mm}
                                                        3.9
                                                                        \theglossary
\HDorg@theglossary
                                                        202 \let\HDorg@theglossary\theglossary
                \theglossary
                                                        203 \def\theglossary{%
                                                                      \let\HDorg@glossary@prologue\glossary@prologue
                                                        204
                                                                      \let\HDorg@writebookmark\Hy@writebookmark
                                                        205
                                                                      \HD@sectionpatch
                                                        207
                                                                      \def\glossary@prologue{%
                                                        208
                                                                           \ifHD@numbered
                                                        209
                                                                            \else
```

```
\begingroup
                                                      210
                                                                                     \let\Hy@writebookmark\HDorg@writebookmark
                                                      211
                                                                                     \stepcounter{HD@unique}%
                                                      212
                                                                                     \pdfbookmark[\HD@guesstoclevel{\HDorg@glossary@prologue}]%
                                                      213
                                                      214
                                                                                                {\glossaryname}{glossary\theHD@unique}%
                                                      215
                                                                               \endgroup
                                                      216
                                                                          \fi
                                                      217
                                                                          \HDorg@glossary@prologue
                                                                    }%
                                                      218
                                                                    \HDorg@theglossary
                                                      219
                                                      220 }
             \glossaryname
                                                      221 \providecommand*{\glossaryname}{Change History}
                                                      3.10 Index
                                                      222 \mbox{\em MD@hypercount}
           \HD@helplength
                                                      223 \newlength{\HD@helplength}
           \ifHD@savedest
                                                      224 \neq 16
                                                      225 \HD@savedesttrue
                                                      226 \AtBeginDocument{%
                                                      227
                                                                   \HD@savedest@init
                                                       229 \RequirePackage{rerunfilecheck}[2009/12/10]
   \HD@savedest@init
                                                      230 \begingroup
                                                      231 \ \catcode`\^^M=\active
                                                      232 \Offirstofone{\endgroup
                                                      233
                                                                   \def\HD@savedest@init{%
                                                      234
                                                                          \ifHD@savedest
                                                                               \let\HDorg@tilde~%
                                                      235
                                                      236
                                                                               \let~\HD@savedest@entry
                                                                               \edef\HDorg@catcodeM{\the\catcode`\^^M}%
                                                      237
                                                                               \catcode`\^^M=\active
                                                      238
                                                                               \def^^M{}%
                                                      239
                                                                               \label{linear} $$\prod_{i=1}^{j\circ n} .hd}{}%
                                                      240
                                                                               \let~\HDorg@tilde
                                                      241
                                                                               \catcode \^^M=\HDorg@catcodeM\relax
                                                      242
                                                      243
                                                                               \newwrite\HD@savedest@out
                                                      244
                                                                               \RerunFileCheck{\jobname.hd}{%
                                                      245
                                                                                     \immediate\closeout\HD@savedest@out
                                                      246
                                                                               }{}%
                                                                               \immediate\openout\HD@savedest@out=\jobname.hd\relax
                                                      247
                                                      248
                                                                                \let\HD@savedest@add\@gobble
                                                      249
                                                      250
                                                                          \fi
                                                                    }%
                                                      251
\HD@savedest@entry
                                                                    \label{local-equation} $$ \end{area} $$ \e
                                                      252
                                                                          \ensuremath{\mbox{\tt Onamedef{HD.#1}{}}}
                                                      253
                                                                   }%
                                                      254
                                                      255 }
```

```
\HD@savedest@add
                       256 \def\HD@savedest@add#1{%
                            \immediate\write\HD@savedest@out{\string~#1}%
                       258 }
   \ifHD@targetraise
                       259 \newif\ifHD@targetraise
                       260 \HD@targetraisetrue
          \HD@target
                       261 \def\HD@target{%
                       262
                            \ifHD@targetraise
                              \ifhmode
                       263
                       264
                                 \settoheight{\HD@helplength}{[H]}%
                       265
                                 \addtolength{\HD@helplength}{0.4ex}%
                       266
                                \raisebox{\HD@helplength}[Opt][Opt]{%
                       267
                                   \HD@maketarget
                                }%
                       268
                              \else
                       269
                                \HD@maketarget
                       270
                              \fi
                       271
                       272
                            \else
                       273
                              \HD@maketarget
                       274
                            \fi
                       275 }
      \HD@maketarget
                       276 \def\HD@maketarget{%
                            \stepcounter{HD@hypercount}%
                       278
                            \def\HD@next{%
                       279
                              \llap{\hypertarget{HD.\the\c@HD@hypercount}{}\,}%
                            }%
                       280
                            \ifHD@savedest
                       281
                              \expandafter\ifx\csname HD.\the\c@HD@hypercount\endcsname\@empty
                       282
                              \else
                       283
                                \let\HD@next\relax
                       284
                              \fi
                       285
                            \fi
                       286
                            \HD@next
                       287
                       288 }
      \CodelineIndex
                       289 \g@addto@macro\CodelineIndex{%
                            \let\special@index\HD@codeline@wrindex
                       291 }
          \PageIndex
                       292 \g@addto@macro\PageIndex{%
                            \let\special@index\HD@page@wrindex
                       294 }
\HD@codeline@wrindex
                       295 \def\HD@codeline@wrindex#1{%
                       296
                            \begingroup
                       297
                               \let\HDorg@encapchar\encapchar
                       298
                              \def\encapchar##1\encapchar##2\@ni1{%
                       299
                                 \HDorg@encapchar
                       300
                                hdclindex{\the\c@HD@hypercount}{##1}%
                       301
                              \codeline@wrindex{%
                       302
                       303
                                #1\encapchar\encapchar\@nil
                       304
```

```
\endgroup
                           305
                           306 }
         \HD@page@wrindex
                           307 \def\HD@page@wrindex#1{%
                           308
                                 \begingroup
                                   \let\HDorg@encapchar\encapchar
                           309
                                   \def\encapchar##1\encapchar##2\@ni1{%
                           310
                           311
                                     \HDorg@encapchar
                           312
                                     hdpindex{##1}%
                           313
                                   \HDorg@index{#1\encapchar\encapchar\@nil}%
                           314
                           315
                                 \endgroup
                           316 }
               \hdclindex
                           317 \def\hdclindex#1#2#3{%}
                                \csname\ifx\\#2\relax\else\#2\fi\endcsname\{\%\
                           318
                           319
                                   320
                                   \HD@savedest@add{#1}%
                           321
                                }%
                           322 }
                \hdpindex
                           323 \left( \frac{1}{2} \right)
                                \csname\ifx\fi\endcsname{\%}
                           325
                                   \hyperpage{#2}%
                           326
                                }%
                           327 }
                                   \PrintDescribeMacro
                           3.11
\HDorg@PrintDescribeMacro
                           328 \let\HDorg@PrintDescribeMacro\PrintDescribeMacro
      \PrintDescribeMacro
                           329 \renewcommand\PrintDescribeMacro[1] {%
                                \begingroup
                                   \let\HDorg@MacroFont\MacroFont
                           331
                                   \def\MacroFont{%
                           332
                                     \HD@target
                           333
                                     \HDorg@MacroFont
                           334
                                  }%
                           335
                                   \HDorg@PrintDescribeMacro{#1}%
                           336
                           337
                                 \endgroup
                           338 }
                           3.12
                                   \PrintMacroName
   \HDorg@PrintMacroName
                           339 \let\HDorg@PrintMacroName\PrintMacroName
          \PrintMacroName
                           340 \renewcommand\PrintMacroName[1]{\%
                           341
                                 \begingroup
                           342
                                   \let\HDorg@MacroFont\MacroFont
                           343
                                   \def\MacroFont{%
                           344
                                     \HD@target
                           345
                                     \HDorg@MacroFont
                           346
                                   \HDorg@PrintMacroName{#1}%
                           347
                           348
                                \endgroup
```

349 }

```
3.13
                                                                                                                                                        \theCodelineNo
                  \HDorg@theCodelineNo
                                                                                                                      350 \let\HDorg@theCodelineNo\theCodelineNo
                                             \theCodelineNo
                                                                                                                      351 \renewcommand*\theCodelineNo{%
                                                                                                                                             \settowidth{\HD@helplength}{\HDorg@theCodelineNo\ }%
                                                                                                                      353
                                                                                                                                             \ifdim\HD@helplength<\MacroIndent
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                                                                                                                                                       355
                                                                                                                                                       \label{lap}{\label{lap}}
                                                                                                                                                                 \begingroup\HD@target\endgroup
                                                                                                                      356
                                                                                                                                                                 \hspace*{-\HD@helplength}%
                                                                                                                      357
                                                                                                                                                      }%
                                                                                                                      358
                                                                                                                                             \else
                                                                                                                      359
                                                                                                                                                      \HD@target
                                                                                                                      360
                                                                                                                                             \fi
                                                                                                                      361
                                                                                                                      362
                                                                                                                                              \HDorg@theCodelineNo
                                                                                                                      363 }
                                                      \HDorg@index
                                                                                                                      364 \AtBeginDocument{%
                                                                                                                                             \let\HDorg@index\index
                                                                                                                      365
                                                                                                                      366 }
                                                                                                                                                         \SpecialUsageIndex
                                                                                                                      3.14
\HDorg@SpecialUsageIndex
                                                                                                                      367 \let\HDorg@SpecialUsageIndex\SpecialUsageIndex
                                                                                                                      368 \renewcommand*\SpecialUsageIndex[1]{%
                                                                                                                                             \@bsphack
                                                                                                                      369
                                                                                                                                             \begingroup
                                                                                                                      370
                                                                                                                                                       \HD@target
                                                                                                                      371
                                                                                                                      372
                                                                                                                                                       \let\index\HDorg@index
                                                                                                                      373
                                                                                                                                                       \let\HDorg@encapchar\encapchar
                                                                                                                      374
                                                                                                                                                       \edef\encapchar usage{%
                                                                                                                      375
                                                                                                                                                                      \HDorg@encapchar hdclindex{\the\c@HD@hypercount}{usage}%
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                                                                                                                                                       \HDorg@SpecialUsageIndex{#1}%
                                                                                                                      378
                                                                                                                                              \endgroup
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                                                                                                                      383 \setminus else
                                    \HDorg@autoindex
                                                                                                                                             \let\HDorg@autoindex\autoindex
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                                                                \autoindex
                                                                                                                      385
                                                                                                                                              \renewcommand*\autoindex[1]{%
                                                                                                                      386
                                                                                                                                                       \@bsphack
                                                                                                                      387
                                                                                                                                                       \begingroup
```

388

389

390 391

392 393 \HD@target

\let\index\HDorg@index

\edef\encapchar usage{%

\let\HDorg@encapchar\encapchar

\HDorg@encapchar hdclindex{\the\c@HD@hypercount}{usage}%

```
\HDorg@autoindex{#1}%
                         394
                         395
                                \endgroup
                                \@esphack
                         396
                         397
                         398 \fi
                         3.16
                                 \SpecialEnvIndex
\HDorg@SpecialEnvIndex
                         399 \let\HDorg@SpecialEnvIndex\SpecialEnvIndex
      \SpecialEnvIndex
                         400 \renewcommand*\SpecialEnvIndex[1]{%
                              \@bsphack
                         401
                              \begingroup
                         402
                                \HD@target
                         403
                         404
                                \let\HDorg@encapchar\encapchar
                         405
                                \edef\encapchar usage{%
                                   \HDorg@encapchar hdclindex{\the\c@HD@hypercount}{usage}%
                         406
                         407
                                \HDorg@SpecialEnvIndex{#1}%
                         408
                         409
                              \endgroup
                         410
                              \@esphack
                         411 }
                         3.17
                                 \SortIndex
      \HDorg@SortIndex
                         412 \let\HDorg@SortIndex\SortIndex
            \SortIndex
                         413 \renewcommand*{\SortIndex}[2]{%
                              \@bsphack
                         414
                         415
                              \begingroup
                                \let\index\HD@page@wrindex
                         416
                                \HDorg@SortIndex{#1}{#2}%
                         417
                              \endgroup
                         418
                         419
                              \@esphack
                         420 }
                                 \@wrglossary
                         3.18
     \HDorg@wrglossary
                         421 \let\HDorg@wrglossary\@wrglossary
          \@wrglossary
                         422 \ensuremath{\mbox{def}\mbox{@wrglossary#1}}%
                         423
                              \let\HDorg@encapchar\encapchar
                              \def\encapchar##1\encapchar##2\@ni1{%
                         424
                                \HDorg@encapchar
                         425
                                hdpindex{##1}%
                         426
                         427
                              }%
                         428
                              \HDorg@wrglossary{#1\encapchar\encapchar\@nil}%
                         429 }
                                 \MacroIndent
                         3.19
                         \MacroIndent automatically calculated.
```

430 \AfterLastShipout{% 431 \if@filesw

```
432 \immediate\write\@auxout{%
433 \string\providecommand\string\HD@SetMacroIndent[1]{}%
434 }%
435 \immediate\write\@auxout{%
436 \string\HD@SetMacroIndent{\number\value{CodelineNo}}%
437 }%
438 \fi
439 }
```

\HD@SetMacroIndent

```
440 \def\HD@SetMacroIndent#1{%
441 \begingroup
442 \value{CodelineNo}=#1\relax
443 \settowidth{\MacroIndent}{\HDorg@theCodelineNo\}%
444 \global\MacroIndent\MacroIndent
445 \endgroup
446 }
447 \langle /package \rangle
```

4 Installation

4.1 Download

Package. This package is available on CTAN¹:

CTAN:macros/latex/contrib/oberdiek/hypdoc.dtx The source file.

CTAN:macros/latex/contrib/oberdiek/hypdoc.pdf Documentation.

Bundle. All the packages of the bundle 'oberdiek' are also available in a TDS compliant ZIP archive. There the packages are already unpacked and the documentation files are generated. The files and directories obey the TDS standard.

CTAN:install/macros/latex/contrib/oberdiek.tds.zip

TDS refers to the standard "A Directory Structure for TEX Files" (CTAN:tds/tds.pdf). Directories with texmf in their name are usually organized this way.

4.2 Bundle installation

Unpacking. Unpack the oberdiek.tds.zip in the TDS tree (also known as texmf tree) of your choice. Example (linux):

```
unzip oberdiek.tds.zip -d ~/texmf
```

Script installation. Check the directory TDS:scripts/oberdiek/ for scripts that need further installation steps. Package attachfile2 comes with the Perl script pdfatfi.pl that should be installed in such a way that it can be called as pdfatfi. Example (linux):

```
chmod +x scripts/oberdiek/pdfatfi.pl
cp scripts/oberdiek/pdfatfi.pl /usr/local/bin/
```

4.3 Package installation

Unpacking. The .dtx file is a self-extracting docstrip archive. The files are extracted by running the .dtx through plain T_EX :

```
tex hypdoc.dtx
```

¹ftp://ftp.ctan.org/tex-archive/

TDS. Now the different files must be moved into the different directories in your installation TDS tree (also known as texmf tree):

If you have a docstrip.cfg that configures and enables docstrip's TDS installing feature, then some files can already be in the right place, see the documentation of docstrip.

4.4 Refresh file name databases

If your T_EX distribution (te T_EX , mik T_EX , ...) relies on file name databases, you must refresh these. For example, te T_EX users run texhash or mktexlsr.

4.5 Some details for the interested

Attached source. The PDF documentation on CTAN also includes the .dtx source file. It can be extracted by AcrobatReader 6 or higher. Another option is pdftk, e.g. unpack the file into the current directory:

```
pdftk hypdoc.pdf unpack_files output .
```

Unpacking with LATEX. The .dtx chooses its action depending on the format:

plain T_EX: Run docstrip and extract the files.

LATEX: Generate the documentation.

If you insist on using LATEX for docstrip (really, docstrip does not need LATEX), then inform the autodetect routine about your intention:

```
latex \let\install=y\input{hypdoc.dtx}
```

Do not forget to quote the argument according to the demands of your shell.

Generating the documentation. You can use both the .dtx or the .drv to generate the documentation. The process can be configured by the configuration file ltxdoc.cfg. For instance, put this line into this file, if you want to have A4 as paper format:

```
\PassOptionsToClass{a4paper}{article}
```

An example follows how to generate the documentation with pdfI4TEX:

```
pdflatex hypdoc.dtx
makeindex -s gind.ist hypdoc.idx
pdflatex hypdoc.dtx
makeindex -s gind.ist hypdoc.idx
pdflatex hypdoc.dtx
```

5 Catalogue

The following XML file can be used as source for the TeX Catalogue. The elements caption and description are imported from the original XML file from the Catalogue. The name of the XML file in the Catalogue is hypdoc.xml.

```
448 (*catalogue)
449 <?xml version='1.0' encoding='us-ascii'?>
450 <!DOCTYPE entry SYSTEM 'catalogue.dtd'>
451 <entry datestamp='$Date$' modifier='$Author$' id='hypdoc'>
452 <name>hypdoc</name>
```

```
<caption>Hyper extensions for doc.sty.</caption>
453
454
     <authorref id='auth:oberdiek'/>
     <copyright owner='Heiko Oberdiek' year='2002,2006,2007,2009-2011'/>
455
     <license type='lppl1.3'/>
456
     <version number='1.11'/>
457
458
     <description>
459
       This package adds hypertext features to the package
460
       <xref refid='doc'>doc</xref> that is used in the documentation
       system of <xref refid='latex'>LaTeX2e</xref>. Bookmarks are added
461
       and references are linked as far as possible.
462
463
       The package is part of the <xref refid='oberdiek'>oberdiek</xref>
464
465
       bundle.
    </description>
466
     <documentation details='Package documentation'</pre>
467
         href='ctan:/macros/latex/contrib/oberdiek/hypdoc.pdf'/>
469
    <ctan file='true' path='/macros/latex/contrib/oberdiek/hypdoc.dtx'/>
470 <miktex location='oberdiek'/>
    <texlive location='oberdiek'/>
471
472 <install path='/macros/latex/contrib/oberdiek.tds.zip'/>
473 </entry>
474 (/catalogue)
```

6 History

[2002/05/10 v1.0]

• First standalone version.

[2006/02/20 v1.1]

- Option numbered added.
- \HD@savedest@init fixed (empty .hd file triggered first page with fl ligature).
- Bookmarks for \listoffigures and \listoftables.
- Documentation: features and usage added.
- LPPL 1.3.

[2006/04/27 v1.2]

• \HD@target fixed (multicol.dtx).

[2006/06/01 v1.3]

• Support for package amsdtx's \autoindex added.

[2006/06/02 v1.4]

• Bookmark fixed if there are several table of contents, bibliographies, glossaries, ...

[2007/04/11 v1.5]

• Line ends sanitized.

[2007/11/12 v1.6]

- Bug fix in \listoffigures (Axel Sommerfeldt).
- Markup added in implementation section.

[2009/12/10 v1.7]

• Use of package rerunfilecheck.

[2010/02/03 v1.8]

• Fix for bug latex/4096 added.

[2010/03/26 v1.9]

• Definition of \HD@SetMacroIndex is provided in the .aux file.

[2011/05/05 v1.10]

• \raisebox in \HD@target with height and depth of Opt (request of GL).

[2011/08/19 v1.11]

• Latest comma in option list for hyperref removed to avoid option clash because of LATeX 2011/06/27 with the new \in@.

7 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; plain numbers refer to the code lines where the entry is used.

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