

The hypdoc package

Heiko Oberdiek

<heiko.oberdiek at gmail.com>

2011/08/19 v1.11

Abstract

This package adds hyper features to the package doc that is used in the documentation system of L^AT_EX 2_ε. Bookmarks are added and references are linked as far as possible.

Contents

1	Features	2
2	Usage	3
2.1	Options	3
2.2	Simple example	3
2.3	Example source2e.tex	4
3	Implementation	4
3.1	Options	4
3.2	Package loading	4
3.2.1	Patch for bug latex/4096	5
3.3	Bookmarks	5
3.4	\tableofcontents	6
3.5	\listoffigures	7
3.6	\listoftables	7
3.7	\thebibliography	7
3.8	\theindex	8
3.9	\theglossary	9
3.10	Index	9
3.11	\PrintDescribeMacro	12
3.12	\PrintMacroName	12
3.13	\theCodelineNo	12
3.14	\SpecialUsageIndex	13
3.15	\autoindex	13
3.16	\SpecialEnvIndex	13
3.17	\SortIndex	14
3.18	\@wrglossary	14
3.19	\MacroIndent	14
4	Installation	15
4.1	Download	15
4.2	Bundle installation	15
4.3	Package installation	15
4.4	Refresh file name databases	16
4.5	Some details for the interested	16

5 Catalogue	17
6 History	17
[2002/05/10 v1.0]	17
[2006/02/20 v1.1]	17
[2006/04/27 v1.2]	17
[2006/06/01 v1.3]	18
[2006/06/02 v1.4]	18
[2007/04/11 v1.5]	18
[2007/11/12 v1.6]	18
[2009/12/10 v1.7]	18
[2010/02/03 v1.8]	18
[2010/03/26 v1.9]	18
[2011/05/05 v1.10]	18
[2011/08/19 v1.11]	18
7 Index	18

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 `pdf \LaTeX` .

```
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 L^AT_EX is available as a bunch of .dtx files. L^AT_EX 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 pdfT_EX, 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 (HD)]%
```

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

```
8 \RequirePackage{atveryend}[2010/03/24]
9 \RequirePackage{doc}

10 \ifx\numexpr\@undefined
11   \RequirePackage{calc}%
12 \fi

13 \RequirePackage[%
14   hyperindex=false,%
15   pdfusetitle,%
16   colorlinks,%
17   pdfpagelabels%
18 ]{hyperref}[2002/05/09]%
19 \hypersetup{%
20   plainpages=false,%
21   bookmarksopen,%
22   bookmarksnumbered,%
23   bookmarksopenlevel=0,%
```

```

24 pdfstartview={FitBH \hypercalcbp{%
25   \paperheight-\topmargin-1in-\headheight-\headsep
26   }},%
27 }
28 \RequirePackage{thumbpdf}
29 \newcounter{HD@unique}

\theHD@unique

30 \renewcommand{\theHD@unique}{%
31   \number\value{HD@unique}%
32 }

33 \g@addto@macro\Hy@UseMaketitleInfos{%
34   \@ifundefined{fileinfo}{\}%
35   \ifx\@pdfsubject\@empty
36     \hypersetup{pdfsubject={\fileinfo}}%
37   \fi
38 }%
39 }

40 \pdfstringdefDisableCommands{%
41   \let\thanks\@gobble
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{%
52     \mathcode'#1='#1\relax
53   }%
54   \g@addto@macro\mod@math@codes{%
55     \HD@ModFix\-%
56     \HD@ModFix\+%
57     \HD@ModFix\:%
58     \HD@ModFix\=%
59     \HD@ModFix\*%
60   }%
61 \fi

```

3.3 Bookmarks

```

\HD@sectionpatch

62 \def\HD@sectionpatch{%
63   \ifHD@numbered
64     \HD@@sectionpatch{section}%
65     \HD@@sectionpatch{chapter}%
66   \else
67     \let\Hy@writebookmark\HD@disable@writebookmark
68   \fi
69 }

\HD@@sectionpatch

```

```

70 \def\HD@sectionpatch#1{%
71   \expandafter\let\csname HDorg@@#1\expandafter\endcsname
72   \csname #1\endcsname
73   \@namedef{#1}{%
74     \ifstar{\@nameuse{HDorg@@#1}}{\@nameuse{HDorg@@#1}}%
75   }%
76 }

```

\HD@disable@writebookmark

```

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

```

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

```

3.5 \listoffigures

\HDorg@listoffigures

```
113 \let\HDorg@listoffigures\listoffigures
```

\listoffigures

```
114 \def\listoffigures{%
115   \ifHD@numbered
116   \else
117     \stepcounter{HD@unique}%
118     \pdfbookmark[\HD@guesstoclevel{\HDorg@listoffigures}]{%
119       {\contentsname}{toc\theHD@unique}%
120   \fi
121   \begingroup
122     \HD@sectionpatch
123     \HDorg@listoffigures
124   \endgroup
125 }
```

3.6 \listoftables

\HDorg@listoftables

```
126 \let\HDorg@listoftables\listoftables
```

\listoftables

```
127 \def\listoftables{%
128   \ifHD@numbered
129   \else
130     \stepcounter{HD@unique}%
131     \pdfbookmark[\HD@guesstoclevel{\HDorg@listoftables}]{%
132       {\contentsname}{toc\theHD@unique}%
133   \fi
134   \begingroup
135     \HD@sectionpatch
136     \HDorg@listoftables
137   \endgroup
138 }
```

3.7 \thebibliography

\HDorg@thebibliography

```
139 \let\HDorg@thebibliography\thebibliography
```

\thebibliography

```
140 \def\thebibliography{%
141   \ifHD@numbered
142   \else
143     \stepcounter{HD@unique}%
144     \pdfbookmark[\HD@guesstoclevel{\HDorg@thebibliography}]{%
145       {\@ifundefined{chapter}{\refname}{\bibname}}{\bib\theHD@unique}%
146   \fi
147   \HD@sectionpatch
148   \HDorg@thebibliography
149 }
```

3.8 \theindex

```

\HDorg@theindex
150 \let\HDorg@theindex\theindex

\theindex
151 \def\theindex{%
152   \let\HDorg@index@prologue\index@prologue
153   \let\HDorg@writebookmark\Hy@writebookmark
154   \HD@sectionpatch
155   \g@addto@macro\IndexParms{%
156     \ifHD@numbered
157     \else
158       \let\Hy@writebookmark\HDorg@writebookmark
159     \fi
160     \let\bfseries\HD@bfseries
161   }%
162   \edef\HD@toclevel@index{\HD@guesstoclevel{\index@prologue}}%
163   \begingroup
164     \count@=\HD@toclevel@index\relax
165     \advance\count@ by 1 %
166     \xdef\HD@toclevel@subindex{\the\count@}%
167   \endgroup
168   \def\index@prologue{%
169     \ifHD@numbered
170     \else
171       \begingroup
172         \stepcounter{HD@unique}%
173         \let\Hy@writebookmark\HDorg@writebookmark
174         \pdfbookmark[\HD@toclevel@index]%
175           {\indexname}{index\theHD@unique}%
176       \endgroup
177     \fi
178     \HDorg@index@prologue
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
186   \ifx\HD@hfil\hfil
187     \expandafter\HD@@@bfseries
188   \fi
189 }

\HD@@@bfseries
190 \def\HD@@@bfseries\hfil#1\hfil{%
191   \ifx\#1\%
192   \else
193     \raisebox{\baselineskip}[Opt]{%
194       \kern-\HD@margin\relax

```



```

195     \pdfbookmark[\HD@toclevel@subindex]{#1}{HD.#1}%
196     \kern\HD@margin\relax
197   }%
198   \fi
199   \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{%
204   \let\HDorg@glossary@prologue\glossary@prologue
205   \let\HDorg@writebookmark\Hy@writebookmark
206   \HD@sectionpatch
207   \def\glossary@prologue{%
208     \ifHD@numbered
209     \else
210       \begingroup
211         \let\Hy@writebookmark\HDorg@writebookmark
212         \stepcounter{HD@unique}%
213         \pdfbookmark[\HD@guesstoclevel{\HDorg@glossary@prologue}]{%
214           {\glossaryname}{glossary\theHD@unique}}%
215       \endgroup
216     \fi
217     \HDorg@glossary@prologue
218   }%
219   \HDorg@theglossary
220 }

\glossaryname
221 \providecommand*{\glossaryname}{Change History}

3.10  Index

222 \newcounter{HD@hypercount}

\HD@helplength
223 \newlength{\HD@helplength}

\ifHD@savest
224 \newif\ifHD@savest
225 \HD@savesttrue

226 \AtBeginDocument{%
227   \HD@savest@init
228 }

229 \RequirePackage{rerunfilecheck}[2009/12/10]

\HD@savest@init
230 \begingroup
231   \catcode'\^^M=\active

```

```

232 \@firstofone{\endgroup
233   \def\HD@savedest@init{%
234     \ifHD@savedest
235       \let\HDorg@tilde~%
236       \let~\HD@savedest@entry
237       \edef\HDorg@catcodeM{\the\catcode'\^M}%
238       \catcode'\^M=\active
239       \def^M{}%
240       \InputIfFileExists{\jobname.hd}{-}{-}%
241       \let~\HDorg@tilde
242       \catcode'\^M=\HDorg@catcodeM\relax
243       \newwrite\HD@savedest@out
244       \RerunFileCheck{\jobname.hd}{-}%
245       \immediate\closeout\HD@savedest@out
246     }{}%
247     \immediate\openout\HD@savedest@out=\jobname.hd\relax
248   \else
249     \let\HD@savedest@add\@gobble
250   \fi
251 }%

\HD@savedest@entry
252   \def\HD@savedest@entry#1^M{%
253     \@namedef{HD.#1}{-}%
254   }%
255 }

\HD@savedest@add
256 \def\HD@savedest@add#1{%
257   \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
263     \ifhmode
264       \settoheight{\HD@helplength}{[H]}%
265       \addtolength{\HD@helplength}{0.4ex}%
266       \raisebox{\HD@helplength}[0pt][0pt]{%
267         \HD@maketarget
268       }%
269     \else
270       \HD@maketarget
271     \fi
272   \else
273     \HD@maketarget
274   \fi
275 }

\HD@maketarget
276 \def\HD@maketarget{%
277   \stepcounter{HD@hypercount}%
278   \def\HD@next{%
279     \llap{\hypertarget{HD.\the\c@HD@hypercount}{-}\,}%

```

```

280 }%
281 \ifHD@savedest
282 \expandafter\ifx\csname HD.\the\c@HD@hypercount\endcsname\@empty
283 \else
284 \let\HD@next\relax
285 \fi
286 \fi
287 \HD@next
288 }

\CodelineIndex

289 \g@addto@macro\CodelineIndex{%
290 \let\special@index\HD@codeline@wrindex
291 }

\PageIndex

292 \g@addto@macro\PageIndex{%
293 \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\@nil{%
299 \HDorg@encapchar
300 hdclindex{\the\c@HD@hypercount}{##1}%
301 }%
302 \codeline@wrindex{%
303 #1\encapchar\encapchar\@nil
304 }%
305 \endgroup
306 }

\HD@page@wrindex

307 \def\HD@page@wrindex#1{%
308 \begingroup
309 \let\HDorg@encapchar\encapchar
310 \def\encapchar##1\encapchar##2\@nil{%
311 \HDorg@encapchar
312 hdpindex{##1}%
313 }%
314 \HDorg@index{#1\encapchar\encapchar\@nil}%
315 \endgroup
316 }

\hdclindex

317 \def\hdclindex#1#2#3{%
318 \csname\ifx\#2\relax\else#2\fi\endcsname{%
319 \hyperlink{HD.#1}{#3}%
320 \HD@savedest@add{#1}%
321 }%
322 }

\hdpindex

323 \def\hdpindex#1#2{%
324 \csname\ifx\#1\relax\else#1\fi\endcsname{%

```

```

325     \hyperpage{#2}%
326   }%
327 }

```

3.11 \PrintDescribeMacro

\HDorg@PrintDescribeMacro

```

328 \let\HDorg@PrintDescribeMacro\PrintDescribeMacro

```

\PrintDescribeMacro

```

329 \renewcommand\PrintDescribeMacro[1]{%
330   \begingroup
331     \let\HDorg@MacroFont\MacroFont
332     \def\MacroFont{%
333       \HD@target
334       \HDorg@MacroFont
335     }%
336     \HDorg@PrintDescribeMacro{#1}%
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     }%
347     \HDorg@PrintMacroName{#1}%
348   \endgroup
349 }

```

3.13 \theCodelineNo

\HDorg@theCodelineNo

```

350 \let\HDorg@theCodelineNo\theCodelineNo

```

\theCodelineNo

```

351 \renewcommand*\theCodelineNo{%
352   \settowidth{\HD@helplength}{\HDorg@theCodelineNo\ }%
353   \ifdim\HD@helplength<\MacroIndent
354     \addtolength{\HD@helplength}{-\MacroIndent}%
355     \llap{%
356       \begingroup\HD@target\endgroup
357       \hspace*{\HD@helplength}%
358     }%
359   \else
360     \HD@target
361   \fi
362   \HDorg@theCodelineNo
363 }

```

\HDorg@index

```
364 \AtBeginDocument{%
365   \let\HDorg@index\index
366 }
```

3.14 \SpecialUsageIndex

\HDorg@SpecialUsageIndex

```
367 \let\HDorg@SpecialUsageIndex\SpecialUsageIndex
368 \renewcommand*\SpecialUsageIndex[1]{%
369   \@bsphack
370   \begingroup
371     \HD@target
372     \let\index\HDorg@index
373     \let\HDorg@encapchar\encapchar
374     \edef\encapchar usage{%
375       \HDorg@encapchar hdclindex{\the\c@HD@hypercount}{usage}%
376     }%
377     \HDorg@SpecialUsageIndex{#1}%
378   \endgroup
379   \@esphack
380 }
```

3.15 \autoindex

```
381 \begingroup\expandafter\expandafter\expandafter\endgroup
382 \expandafter\ifx\csname autoindex\endcsname\relax
383 \else
```

\HDorg@autoindex

```
384   \let\HDorg@autoindex\autoindex
```

\autoindex

```
385   \renewcommand*\autoindex[1]{%
386     \@bsphack
387     \begingroup
388       \HD@target
389       \let\index\HDorg@index
390       \let\HDorg@encapchar\encapchar
391       \edef\encapchar usage{%
392         \HDorg@encapchar hdclindex{\the\c@HD@hypercount}{usage}%
393       }%
394       \HDorg@autoindex{#1}%
395     \endgroup
396     \@esphack
397   }%
398 \fi
```

3.16 \SpecialEnvIndex

\HDorg@SpecialEnvIndex

```
399 \let\HDorg@SpecialEnvIndex\SpecialEnvIndex
```

\SpecialEnvIndex

```
400 \renewcommand*\SpecialEnvIndex[1]{%
401   \@bsphack
402   \begingroup
```

```

403 \HD@target
404 \let\HDorg@encapchar\encapchar
405 \edef\encapchar usage{%
406 \HDorg@encapchar hdcindex{\the\c@HD@hypercount}{usage}%
407 }%
408 \HDorg@SpecialEnvIndex{#1}%
409 \endgroup
410 \@esphack
411 }

```

3.17 \SortIndex

\HDorg@SortIndex

```

412 \let\HDorg@SortIndex\SortIndex

```

\SortIndex

```

413 \renewcommand*{\SortIndex}[2]{%
414 \@bsphack
415 \begingroup
416 \let\index\HD@page@wrindex
417 \HDorg@SortIndex{#1}{#2}%
418 \endgroup
419 \@esphack
420 }

```

3.18 \@wrglossary

\HDorg@wrglossary

```

421 \let\HDorg@wrglossary\@wrglossary

```

\@wrglossary

```

422 \def\@wrglossary#1{%
423 \let\HDorg@encapchar\encapchar
424 \def\encapchar##1\encapchar##2\@nil{%
425 \HDorg@encapchar
426 hdpindex{##1}%
427 }%
428 \HDorg@wrglossary{#1\encapchar\encapchar\@nil}%
429 }

```

3.19 \MacroIndent

\MacroIndent automatically calculated.

```

430 \AfterLastShipout{%
431 \if@files
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 \</package>

```

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 \TeX :

```
tex hypdoc.dtx
```

¹<http://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):

```
hypdoc.sty → tex/latex/oberdiek/hypdoc.sty
hypdoc.pdf → doc/latex/oberdiek/hypdoc.pdf
hypdoc.dtx → source/latex/oberdiek/hypdoc.dtx
```

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 $\text{T}_{\text{E}}\text{X}$ distribution (`te $\text{T}_{\text{E}}\text{X}$` , `mik $\text{T}_{\text{E}}\text{X}$` , ...) relies on file name databases, you must refresh these. For example, `te $\text{T}_{\text{E}}\text{X}$` users run `texhash` or `mktextlsr`.

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 $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$. The `.dtx` chooses its action depending on the format:

plain $\text{T}_{\text{E}}\text{X}$: Run `docstrip` and extract the files.

$\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$: Generate the documentation.

If you insist on using $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ for `docstrip` (really, `docstrip` does not need $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$), 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 `pdf $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$` :

```
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>
453   <caption>Hyper extensions for doc.sty.</caption>
454   <authorref id='auth:oberdiek'></authorref>
455   <copyright owner='Heiko Oberdiek' year='2002,2006,2007,2009-2011'></copyright>
456   <license type='lppl1.3'></license>
457   <version number='1.11'></version>
458   <description>
459     This package adds hypertext features to the package
460     <xref refid='doc'>doc</xref> that is used in the documentation
461     system of <xref refid='latex'>LaTeX2e</xref>. Bookmarks are added
462     and references are linked as far as possible.
463     <p/>
464     The package is part of the <xref refid='oberdiek'>oberdiek</xref>
465     bundle.
466   </description>
467   <documentation details='Package documentation'
468     href='ctan:/macros/latex/contrib/oberdiek/hypdoc.pdf'></documentation>
469   <ctan file='true' path='/macros/latex/contrib/oberdiek/hypdoc.dtx'></ctan>
470   <miktex location='oberdiek'></miktex>
471   <texlive location='oberdiek'></texlive>
472   <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip'></install>
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 `0pt` (request of GL).

[2011/08/19 v1.11]

- Latest comma in option list for `hyperref` removed to avoid option clash because of L^AT_EX 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.

Symbols		
	<code>\@empty</code>	35, 44, 45, 82, 85, 282
<code>*</code>	<code>\@esphack</code>	379, 396, 410, 419
<code>\+</code>	<code>\@firstofone</code>	232
<code>\,</code>	<code>\@gobble</code>	41, 42, 82, 85, 249
<code>\-</code>	<code>\@ifstar</code>	74
<code>\:</code>	<code>\@ifundefined</code>	34, 82, 91, 145
<code>\=</code>	<code>\@namedef</code>	73, 253
<code>\@auxout</code>	<code>\@nameuse</code>	74, 85
<code>\@bsphack</code>	<code>\@nil</code>	298, 303, 310, 314, 424, 428

\@pdfsubject	35	\HD@@sectionpatch	64, 65, <u>70</u>
\@undefined	10	\HD@bfseries	160, <u>183</u>
\@wrglossary	421, <u>422</u>	\HD@codeline@wrindex	290, <u>295</u>
\\	191, 318, <u>324</u>	\HD@disable@writebookmark	67, <u>77</u>
\^	231, 237, 238, <u>242</u>	\HD@end	79, 81
		\HD@guesstoclevel	<u>78</u> , 97, 104, 118, 131, 144, 162, 213
_	352, 443	\HD@helplength	<u>223</u> , 264, 265, 266, 352, 353, 354, 357
A			
\active	231, 238	\HD@hfil	183, 186
\addtolength	265, <u>354</u>	\HD@maketarget	267, 270, <u>273</u> , <u>276</u>
\advance	165	\HD@margin	194, 196, <u>201</u>
\AfterLastShipout	430	\HD@ModFix	51, 55, 56, 57, 58, 59
\and	46	\HD@next	278, 284, 287
\AtBeginDocument	226, <u>364</u>	\HD@numberedtrue	6
\autoindex	384, <u>385</u>	\HD@page@wrindex	293, <u>307</u> , 416
B			
\baselineskip	193	\HD@savedest@add	249, <u>256</u> , 320
\bfseries	160, <u>182</u>	\HD@savedest@entry	236, <u>252</u>
\bibname	145	\HD@savedest@init	227, <u>230</u>
C			
\c@HD@hypercount		\HD@savedest@out	243, 245, 247, 257
.....	279, 282, 300, 375, 392, 406	\HD@savedesttrue	225
\c@section	92, 95	\HD@sectionpatch 62, 108, 122, 135, 147, 154, 206
\catcode	231, 237, 238, <u>242</u>	\HD@SetMacroIndent	433, 436, <u>440</u>
\closeout	245	\HD@target	<u>261</u> , 333, 344, 356, 360, 371, 388, 403
\codeline@wrindex	302	\HD@targetraisetrue	260
\CodelineIndex	<u>289</u>	\HD@toclevel@index	162, 164, 174
\contentsname	98, 105, 119, 132	\HD@toclevel@subindex	166, 195
\count@	164, 165, 166	\hdclindex	<u>317</u>
\cs	43	\HDorg@autoindex	<u>384</u> , 394
\csname ..	49, 71, 72, 282, 318, 324, 382	\HDorg@bfseries	<u>182</u> , 185
D			
\DeclareOption	6	\HDorg@catcodeM	237, 242
E			
\encapchar	297, 298, 303, 309, 310, 314, 373, 374, 390, 391, 404, 405, 423, 424, 428	\HDorg@encapchar 297, 299, 309, 311, 373, 375, 390, 392, 404, 406, 423, 425
\endcsname ..	49, 71, 72, 282, 318, 324, 382	\HDorg@glossary@prologue ..	204, 213, 217
F			
\fileinfo	36	\HDorg@index	314, <u>364</u> , 372, 389
\footnote	42	\HDorg@index@prologue	152, 178
\futurelet	183	\HDorg@listoffigures ..	<u>113</u> , 118, 123
G			
\g@addto@macro ..	33, 54, 155, 289, 292	\HDorg@listoftables ...	<u>126</u> , 131, 136
\glossary@prologue	204, 207	\HDorg@MacroFont ..	331, 334, 342, 345
\glossaryname	214, <u>221</u>	\HDorg@PrintDescribeMacro ..	<u>328</u> , 336
H			
\HD@@@bfseries	187, <u>190</u>	\HDorg@PrintMacroName	<u>339</u> , 347
\HD@bfseries	183, <u>184</u>	\HDorg@SortIndex	<u>412</u> , 417
\HD@guesstoclevel	79, <u>81</u>	\HDorg@SpecialEnvIndex	<u>399</u> , 408
		\HDorg@SpecialUsageIndex	<u>367</u>
		\HDorg@tableofcontents 88, 97, 99, 104, 109
		\HDorg@thebibliography ..	<u>139</u> , 144, 148
		\HDorg@theCodelineNo ..	<u>350</u> , 352, 362, 443
		\HDorg@theglossary	202, 219
		\HDorg@theindex	<u>150</u> , 180
		\HDorg@tilde	235, 241
		\HDorg@wrglossary	<u>421</u> , 428
		\HDorg@writebookmark 153, 158, 173, 205, 211
		\hdpinindex	<u>323</u>

\headheight	25	\numexpr	10
\headsep	25		
\hfil	186, 190, 199	O	
\hspace	357	\openout	247
\Hy@UseMaketitleInfos	33		
\Hy@writebookmark		P	
.....	67, 153, 158, 173, 205, 211	\PageIndex	292
\hypercalcbp	24	\paperheight	25
\hyperlink	319	\pdfbookmark	97,
\hyperpage	325	104, 118, 131, 144, 174, 195, 213	
\hypersetup	19, 36	\pdfstringdefDisableCommands	40
\hypertarget	279	\PrintDescribeMacro	328, 329
		\PrintMacroName	339, 340
I		\ProcessOptions	7
\if@files	431	\providecommand	221, 433
\ifcase	95	\ProvidesPackage	3
\ifdim	353		
\ifHD@numbered	5,	R	
63, 101, 115, 128, 141, 156, 169, 208		\raisebox	193, 266
\ifHD@savedest	224, 234, 281	\refname	145
\ifHD@targetraise	259, 262	\renewcommand	30,
\ifhmode	263	329, 340, 351, 368, 385, 400, 413	
\ifx	10,	\RequirePackage	8, 9, 11, 13, 28, 229
35, 49, 186, 191, 282, 318, 324, 382		\RerunFileCheck	244
\immediate	245, 247, 257, 432, 435		
\index	365, 372, 389, 416	S	
\index@prologue	152, 162, 168	\scshape	45
\indexname	175	\section	79
\IndexParms	155	\settoheight	264
\InputIfFileExists	240	\settowidth	352, 443
		\SortIndex	412, 413
J		\special@index	290, 293
\jobname	240, 244, 247	\SpecialEnvIndex	399, 400
		\SpecialUsageIndex	367, 368
K		\stepcounter	96,
\kern	194, 196	103, 117, 130, 143, 172, 212, 277	
		T	
L		\tableofcontents	88, 89
\listoffigures	113, 114	\textbackslash	43
\listoftables	126, 127	\thanks	41
\llap	279, 355	\the	166, 237, 279, 282, 300, 375, 392, 406
		\thebibliography	139, 140
M		\theCodelineNo	350, 351
\MacroFont	331, 332, 342, 343	\theglossary	202, 203
\MacroIndent	353, 354, 443, 444	\theHD@unique	30,
\mathcode	52	98, 105, 119, 132, 145, 175, 214	
\mod@math@codes	54	\theindex	150, 151
		\topmargin	25
N			
\NeedsTeXFormat	2	V	
\newcounter	29, 222	\value	31, 436, 442
\newif	5, 224, 259		
\newlength	223	W	
\newwrite	243	\write	257, 432, 435
\normalfont	44		
\number	31, 436		