

The hypdoc package

Heiko Oberdiek
<oberdiek@uni-freiburg.de>

2007/11/12 v1.6

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	2
2.1	Options	3
2.2	Simple example	3
2.3	Example <code>source2e.tex</code>	3
3	Implementation	4
3.1	Options	4
3.2	Package loading	4
3.3	Bookmarks	5
3.4	<code>\tableofcontents</code>	5
3.5	<code>\listoffigures</code>	6
3.6	<code>\listoftables</code>	6
3.7	<code>\thebibliography</code>	7
3.8	<code>\theindex</code>	7
3.9	<code>\theglossary</code>	8
3.10	Index	8
3.11	<code>\PrintDescribeMacro</code>	11
3.12	<code>\PrintMacroName</code>	11
3.13	<code>\theCodelineNo</code>	11
3.14	<code>\SpecialUsageIndex</code>	12
3.15	<code>\autoindex</code>	12
3.16	<code>\SpecialEnvIndex</code>	12
3.17	<code>\SortIndex</code>	13
3.18	<code>\@wrglossary</code>	13
3.19	<code>\MacroIndent</code>	13
4	Installation	14
4.1	Download	14
4.2	Bundle installation	14
4.3	Package installation	14
4.4	Refresh file name databases	14
4.5	Some details for the interested	15

5 History	15
[2002/05/10 v1.0]	15
[2006/02/20 v1.1]	15
[2006/04/27 v1.2]	15
[2006/06/01 v1.3]	15
[2006/06/02 v1.4]	16
[2007/04/11 v1.5]	16
[2007/11/12 v1.6]	16
6 Index	16

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 entries 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 \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 pdfTeX, 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 [2007/11/12 v1.6 Hyper extensions for doc.sty (H0)]%
```

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{doc}

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

12 \RequirePackage[%
13   hyperindex=false,%
14   pdfusetitle,%
15   colorlinks,%
16   pdfpagelabels,%
17 ]{hyperref}[2002/05/09]%
18 \hypersetup{%
19   plainpages=false,%
20   bookmarksopen,%
21   bookmarksnumbered,%
22   bookmarksopenlevel=0,%
23   pdfstartview={FitBH \hypercalcbp{%
24     \paperheight-\topmargin-1in-\headheight-\headsep
25   }},%
26 }
27 \RequirePackage{thmbpdf}

28 \newcounter{HD@unique}

\theHD@unique

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

32 \g@addto@macro\Hy@UseMaketitleInfos{%
33   \@ifundefined{fileinfo}{\}%
34   \ifx\@pdfsubject\@empty
35     \hypersetup{pdfsubject={\fileinfo}}%
```

```

36     \fi
37   }%
38 }

39 \pdfstringdefDisableCommands{%
40   \let\thanks\@gobble
41   \let\footnote\@gobble
42   \def\cs#1{\textbackslash #1}%
43   \let\normalfont\@empty
44   \let\scshape\@empty
45   \def\and{and }%
46 }

```

3.3 Bookmarks

\HD@sectionpatch

```

47 \def\HD@sectionpatch{%
48   \ifHD@numbered
49     \HD@@sectionpatch{section}%
50     \HD@@sectionpatch{chapter}%
51   \else
52     \let\Hy@writebookmark\HD@disable@writebookmark
53   \fi
54 }

```

\HD@@sectionpatch

```

55 \def\HD@@sectionpatch#1{%
56   \expandafter\let\csname HDorg@@#1\expandafter\endcsname
57   \csname #1\endcsname
58   \@namedef{#1}{%
59     \ifstar{\@nameuse{HDorg@@#1}}{\@nameuse{HDorg@@#1}}%
60   }%
61 }

```

\HD@disable@writebookmark

```

62 \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.

```

63 \def\HD@guesstoclevel#1{%
64   \expandafter\HD@@guesstoclevel#1\section\HD@end
65 }

```

\HD@@guesstoclevel

```

66 \def\HD@@guesstoclevel#1#2\HD@end{%
67   \@ifundefined{toclevel@}\expandafter\@gobble\string#1\@empty}{%
68     1%
69   }{%
70     \@nameuse{toclevel@\expandafter\@gobble\string#1\@empty}%
71   }%
72 }

```

3.4 \tableofcontents

\HDorg@tableofcontents

```

73 \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.

```

74 \def\tableofcontents{%
75   \begingroup

```

```

76     \ifundefined{c@section}{%
77         \def\c@section{0}%
78     }{}%
79 \expandafter\endgroup
80 \ifcase\c@section
81     \stepcounter{HD@unique}%
82     \pdfbookmark[\HD@guesstoclevel{\HDorg@tableofcontents}]{%
83         {\contentsname}{toc\theHD@unique}%
84     \HDorg@tableofcontents
85 \else
86     \ifHD@numbered
87     \else
88         \stepcounter{HD@unique}%
89         \pdfbookmark[\HD@guesstoclevel{\HDorg@tableofcontents}]{%
90             {\contentsname}{toc\theHD@unique}%
91         \fi
92     \begingroup
93         \HD@sectionpatch
94         \HDorg@tableofcontents
95     \endgroup
96 \fi
97 }

```

3.5 \listoffigures

\HDorg@listoffigures

```

98 \let\HDorg@listoffigures\listoffigures

```

\listoffigures

```

99 \def\listoffigures{%
100     \ifHD@numbered
101     \else
102         \stepcounter{HD@unique}%
103         \pdfbookmark[\HD@guesstoclevel{\HDorg@listoffigures}]{%
104             {\contentsname}{toc\theHD@unique}%
105         \fi
106     \begingroup
107         \HD@sectionpatch
108         \HDorg@listoffigures
109     \endgroup
110 }

```

3.6 \listoftables

\HDorg@listoftables

```

111 \let\HDorg@listoftables\listoftables

```

\listoftables

```

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

```

3.7 \thebibliography

\HDorg@thebibliography

```
124 \let\HDorg@thebibliography\thebibliography

\thebibliography

125 \def\thebibliography{%
126   \ifHD@numbered
127   \else
128     \stepcounter{HD@unique}%
129     \pdfbookmark[\HD@guesstoclevel{\HDorg@thebibliography}]%
130     {\@ifundefined{chapter}{\refname}{\bibname}}{\bib\theHD@unique}%
131   \fi
132   \HD@sectionpatch
133   \HDorg@thebibliography
134 }
```

3.8 \theindex

\HDorg@theindex

```
135 \let\HDorg@theindex\theindex

\theindex

136 \def\theindex{%
137   \let\HDorg@index@prologue\index@prologue
138   \let\HDorg@writebookmark\Hy@writebookmark
139   \HD@sectionpatch
140   \g@addto@macro\IndexParms{%
141     \ifHD@numbered
142     \else
143       \let\Hy@writebookmark\HDorg@writebookmark
144     \fi
145     \let\bfseries\HD@bfseries
146   }%
147   \edef\HD@toclevel@index{\HD@guesstoclevel{\index@prologue}}%
148   \begingroup
149     \count@=\HD@toclevel@index\relax
150     \advance\count@ by 1 %
151     \xdef\HD@toclevel@subindex{\the\count@}%
152   \endgroup
153   \def\index@prologue{%
154     \ifHD@numbered
155     \else
156       \begingroup
157         \stepcounter{HD@unique}%
158         \let\Hy@writebookmark\HDorg@writebookmark
159         \pdfbookmark[\HD@toclevel@index]%
160         {\indexname}{index\theHD@unique}%
161       \endgroup
162     \fi
163     \HDorg@index@prologue
164   }%
165   \HDorg@theindex
166 }
```

\HDorg@bfseries

```
167 \let\HDorg@bfseries\bfseries
```

\HD@bfseries

```
168 \def\HD@bfseries{\futurelet\HD@hfil\HD@@bfseries}%
```

\HD@@bfseries

```
169 \def\HD@@bfseries{%
170   \HDorg@bfseries
171   \ifx\HD@hfil\hfil
172     \expandafter\HD@@@bfseries
173   \fi
174 }
```

\HD@@@bfseries

```
175 \def\HD@@@bfseries\hfil#1\hfil{%
176   \ifx\#1\%
177   \else
178     \raisebox{\baselineskip}[Opt]{%
179       \kern-\HD@margin\relax
180       \pdfbookmark[\HD@toclevel@subindex]{#1}{HD.#1}%
181       \kern\HD@margin\relax
182     }%
183   \fi
184   \hfil#1\hfil
185 }%
```

\HD@margin

```
186 \def\HD@margin{1mm}
```

3.9 \theglossary

\HDorg@theglossary

```
187 \let\HDorg@theglossary\theglossary
```

\theglossary

```
188 \def\theglossary{%
189   \let\HDorg@glossary@prologue\glossary@prologue
190   \let\HDorg@writebookmark\Hy@writebookmark
191   \HD@sectionpatch
192   \def\glossary@prologue{%
193     \ifHD@numbered
194     \else
195       \begingroup
196         \let\Hy@writebookmark\HDorg@writebookmark
197         \stepcounter{HD@unique}%
198         \pdfbookmark[\HD@guesstoclevel{\HDorg@glossary@prologue}]{%
199           {\glossaryname}{glossary\theHD@unique}%
200         }%
201       \endgroup
202     \fi
203     \HDorg@glossary@prologue
204   }%
205   \HDorg@theglossary
206 }
```

\glossaryname

```
206 \providecommand*{\glossaryname}{Change History}
```

3.10 Index

```
207 \newcounter{HD@hypercount}
```

\HD@helplength

```
208 \newlength{\HD@helplength}
```



```

\ifHD@savedest
209 \newif\ifHD@savedest
210 \HD@savedesttrue

211 \AtBeginDocument{%
212   \HD@savedest@init
213 }

\HD@savedest@init
214 \begingroup
215   \catcode'\^^M=\active
216 \@firstofone{\endgroup
217   \def\HD@savedest@init{%
218     \ifHD@savedest
219       \let\HDorg@tilde~%
220       \let~\HD@savedest@entry
221       \edef\HDorg@catcodeM{\the\catcode'\^^M}%
222       \catcode'\^^M=\active
223       \def^^M{%
224         \InputIfFileExists{\jobname.hd}{-}{-}%
225         \let~\HDorg@tilde
226         \catcode'\^^M=\HDorg@catcodeM\relax
227         \newwrite\HD@savedest@out
228         \immediate\openout\HD@savedest@out=\jobname.hd\relax
229         \AtEndDocument{\immediate\closeout\HD@savedest@out}%
230       }
231       \let\HD@savedest@add\@gobble
232     \fi
233   }%

\HD@savedest@entry
234   \def\HD@savedest@entry#1^^M{%
235     \@namedef{HD.#1}{-}%
236   }%
237 }

\HD@savedest@add
238 \def\HD@savedest@add#1{%
239   \immediate\write\HD@savedest@out{\string~#1}%
240 }

\ifHD@targetraise
241 \newif\ifHD@targetraise
242 \HD@targetraisetrue

\HD@target
243 \def\HD@target{%
244   \ifHD@targetraise
245     \ifhmode
246       \settoheight{\HD@helplength}{[H]}%
247       \addtolength{\HD@helplength}{0.4ex}%
248       \raisebox{\HD@helplength}{%
249         \HD@maketarget
250       }%
251     \else
252       \HD@maketarget
253     \fi
254   \else
255     \HD@maketarget
256   \fi
257 }

```

\HD@maketarget

```
258 \def\HD@maketarget{%
259   \stepcounter{HD@hypercount}%
260   \def\HD@next{%
261     \llap{\hypertarget{HD.\the\c@HD@hypercount}{},}%
262   }%
263   \ifHD@savedest
264     \expandafter\ifx\csname HD.\the\c@HD@hypercount\endcsname\@empty
265     \else
266       \let\HD@next\relax
267     \fi
268   \fi
269   \HD@next
270 }
```

\CodelineIndex

```
271 \g@addto@macro\CodelineIndex{%
272   \let\special@index\HD@codeline@wrindex
273 }
```

\PageIndex

```
274 \g@addto@macro\PageIndex{%
275   \let\special@index\HD@page@wrindex
276 }
```

\HD@codeline@wrindex

```
277 \def\HD@codeline@wrindex#1{%
278   \begingroup
279   \let\HDorg@encapchar\encapchar
280   \def\encapchar##1\encapchar##2\@nil{%
281     \HDorg@encapchar
282     hdclindex{\the\c@HD@hypercount}{##1}%
283   }%
284   \codeline@wrindex{%
285     #1\encapchar\encapchar\@nil
286   }%
287   \endgroup
288 }
```

\HD@page@wrindex

```
289 \def\HD@page@wrindex#1{%
290   \begingroup
291   \let\HDorg@encapchar\encapchar
292   \def\encapchar##1\encapchar##2\@nil{%
293     \HDorg@encapchar
294     hdpindex{##1}%
295   }%
296   \HDorg@index{#1\encapchar\encapchar\@nil}%
297   \endgroup
298 }
```

\hdclindex

```
299 \def\hdclindex#1#2#3{%
300   \csname\ifx\#2\relax\else#2\fi\endcsname{%
301     \hyperlink{HD.#1}{#3}%
302     \HD@savedest@add{#1}%
303   }%
304 }
```

\hdpindex

```
305 \def\hdpindex#1#2{%
```

```

306 \csname\ifx\#1\relax\else#1\fi\endcsname{%
307 \hyperpage{#2}%
308 }%
309 }

```

3.11 \PrintDescribeMacro

\HDorg@PrintDescribeMacro

```
310 \let\HDorg@PrintDescribeMacro\PrintDescribeMacro
```

\PrintDescribeMacro

```

311 \renewcommand\PrintDescribeMacro[1]{%
312 \begingroup
313 \let\HDorg@MacroFont\MacroFont
314 \def\MacroFont{%
315 \HD@target
316 \HDorg@MacroFont
317 }%
318 \HDorg@PrintDescribeMacro{#1}%
319 \endgroup
320 }

```

3.12 \PrintMacroName

\HDorg@PrintMacroName

```
321 \let\HDorg@PrintMacroName\PrintMacroName
```

\PrintMacroName

```

322 \renewcommand\PrintMacroName[1]{%
323 \begingroup
324 \let\HDorg@MacroFont\MacroFont
325 \def\MacroFont{%
326 \HD@target
327 \HDorg@MacroFont
328 }%
329 \HDorg@PrintMacroName{#1}%
330 \endgroup
331 }

```

3.13 \theCodelineNo

\HDorg@theCodelineNo

```
332 \let\HDorg@theCodelineNo\theCodelineNo
```

\theCodelineNo

```

333 \renewcommand*\theCodelineNo{%
334 \settowidth{\HD@helplength}{\HDorg@theCodelineNo\ }%
335 \ifdim\HD@helplength<\MacroIndent
336 \addtolength{\HD@helplength}{-\MacroIndent}%
337 \llap{%
338 \begingroup\HD@target\endgroup
339 \hspace*{\HD@helplength}%
340 }%
341 \else
342 \HD@target
343 \fi
344 \HDorg@theCodelineNo
345 }

```

\HDorg@index

```
346 \AtBeginDocument{%
347   \let\HDorg@index\index
348 }
```

3.14 \SpecialUsageIndex

\HDorg@SpecialUsageIndex

```
349 \let\HDorg@SpecialUsageIndex\SpecialUsageIndex
350 \renewcommand*\SpecialUsageIndex[1]{%
351   \@bsphack
352   \begingroup
353     \HD@target
354     \let\index\HDorg@index
355     \let\HDorg@encapchar\encapchar
356     \edef\encapchar usage{%
357       \HDorg@encapchar hdclindex{\the\c@HD@hypercount}{usage}%
358     }%
359     \HDorg@SpecialUsageIndex{#1}%
360   \endgroup
361   \@esphack
362 }
```

3.15 \autoindex

```
363 \begingroup\expandafter\expandafter\expandafter\endgroup
364 \expandafter\ifx\csname autoindex\endcsname\relax
365 \else
```

\HDorg@autoindex

```
366   \let\HDorg@autoindex\autoindex
```

\autoindex

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

3.16 \SpecialEnvIndex

\HDorg@SpecialEnvIndex

```
381 \let\HDorg@SpecialEnvIndex\SpecialEnvIndex
```

\SpecialEnvIndex

```
382 \renewcommand*\SpecialEnvIndex[1]{%
383   \@bsphack
384   \begingroup
385     \HD@target
386     \let\HDorg@encapchar\encapchar
387     \edef\encapchar usage{%
```

```

388     \HDorg@encapchar hdclindex{\the\c@HD@hypercount}{usage}%
389   }%
390   \HDorg@SpecialEnvIndex{#1}%
391 \endgroup
392 \@esphack
393 }

```

3.17 \SortIndex

\HDorg@SortIndex

```

394 \let\HDorg@SortIndex\SortIndex

```

\SortIndex

```

395 \renewcommand*{\SortIndex}[2]{%
396   \@bsphack
397   \begingroup
398     \let\index\HD@page@wrindex
399     \HDorg@SortIndex{#1}{#2}%
400   \endgroup
401   \@esphack
402 }

```

3.18 \@wrglossary

\HDorg@wrglossary

```

403 \let\HDorg@wrglossary\@wrglossary

```

\@wrglossary

```

404 \def\@wrglossary#1{%
405   \let\HDorg@encapchar\encapchar
406   \def\encapchar##1\encapchar##2\@nil{%
407     \HDorg@encapchar
408     hdpindex{##1}%
409   }%
410   \HDorg@wrglossary{#1\encapchar\encapchar\@nil}%
411 }

```

3.19 \MacroIndent

\MacroIndent automatically calculated.

```

412 \AtEndDocument{%
413   \if@files
414     \immediate\write\@auxout{%
415       \noexpand\HD@SetMacroIndent{\number\value{CodelineNo}}%
416     }%
417   \fi
418 }

```

\HD@SetMacroIndent

```

419 \def\HD@SetMacroIndent#1{%
420   \begingroup
421     \value{CodelineNo}=#1\relax
422     \settowidth{\MacroIndent}{\HDorg@theCodelineNo\ }%
423     \global\MacroIndent\MacroIndent
424   \endgroup
425 }

426 \end{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
```

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 \TeX distribution (te \TeX , mi \TeX , ...) relies on file name databases, you must refresh these. For example, te \TeX users run `texhash` or `mktextlsr`.

¹<http://ftp.ctan.org/tex-archive/>

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- \TeX : 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 `pdf \LaTeX` :

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

5 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.

6 Index

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

Symbols			
<code>\,</code>	261	<code>\closeout</code>	229
<code>\@auxout</code>	414	<code>\codeline@windex</code>	284
<code>\@bsphack</code>	351, 368, 383, 396	<code>\CodelineIndex</code>	271
<code>\@empty</code>	34, 43, 44, 67, 70, 264	<code>\contentsname</code>	83, 90, 104, 117
<code>\@esphack</code>	361, 378, 392, 401	<code>\count@</code>	149, 150, 151
<code>\@firstofone</code>	216	<code>\cs</code>	42
<code>\@gobble</code>	40, 41, 67, 70, 231	<code>\csname</code>	56, 57, 264, 300, 306, 364
<code>\@ifstar</code>	59	D	
<code>\@ifundefined</code>	33, 67, 76, 130	<code>\DeclareOption</code>	6
<code>\@namedef</code>	58, 235	E	
<code>\@nameuse</code>	59, 70	<code>\encapchar</code>	279, 280,
<code>\@nil</code>	280, 285, 292, 296, 406, 410		285, 291, 292, 296, 355, 356,
<code>\@pdfsubject</code>	34		372, 373, 386, 387, 405, 406, 410
<code>\@undefined</code>	9	<code>\endcsname</code>	56, 57, 264, 300, 306, 364
<code>\@wrglossary</code>	403, 404	F	
<code>\@</code>	176, 300, 306	<code>\fileinfo</code>	35
<code>\^</code>	215, 221, 222, 226	<code>\footnote</code>	41
<code>_</code>	334, 422	<code>\futurelet</code>	168
A		G	
<code>\active</code>	215, 222	<code>\g@addto@macro</code>	32, 140, 271, 274
<code>\addtolength</code>	247, 336	<code>\glossary@prologue</code>	189, 192
<code>\advance</code>	150	<code>\glossaryname</code>	199, 206
<code>\and</code>	45	H	
<code>\AtBeginDocument</code>	211, 346	<code>\HD@@@bfseries</code>	172, 175
<code>\AtEndDocument</code>	229, 412	<code>\HD@@bfseries</code>	168, 169
<code>\autoindex</code>	366, 367	<code>\HD@@guesstoclevel</code>	64, 66
B		<code>\HD@@sectionpatch</code>	49, 50, 55
<code>\baselineskip</code>	178	<code>\HD@bfseries</code>	145, 168
<code>\bfseries</code>	145, 167	<code>\HD@codeline@windex</code>	272, 277
<code>\bibname</code>	130	<code>\HD@disable@writebookmark</code>	52, 62
C		<code>\HD@end</code>	64, 66
<code>\c@HD@hypercount</code>	261, 264, 282, 357, 374, 388	<code>\HD@guesstoclevel</code>	63, 82, 89, 103, 116, 129, 147, 198
<code>\c@section</code>	77, 80	<code>\HD@helplength</code>	208,
<code>\catcode</code>	215, 221, 222, 226		246, 247, 248, 334, 335, 336, 339
		<code>\HD@hfil</code>	168, 171

\HD@maketarget	249, 252, 255, 258	\ifdim	335
\HD@margin	179, 181, 186	\ifHD@numbered	5, 48, 86, 100, 113, 126, 141, 154, 193
\HD@next	260, 266, 269	\ifHD@savedest	209, 218, 263
\HD@numberedtrue	6	\ifHD@targetraise	241, 244
\HD@page@wrindex	275, 289, 398	\ifhmode	245
\HD@savedest@add	231, 238, 302	\ifx	9, 34, 171, 176, 264, 300, 306, 364
\HD@savedest@entry	220, 234	\immediate	228, 229, 239, 414
\HD@savedest@init	212, 214	\index	347, 354, 371, 398
\HD@savedest@out	227, 228, 229, 239	\index@prologue	137, 147, 153
\HD@savedesttrue	210	\indexname	160
\HD@sectionpatch	47, 93, 107, 120, 132, 139, 191	\IndexParms	140
\HD@SetMacroIndent	415, 419	\InputIfFileExists	224
\HD@target	243, 315, 326, 338, 342, 353, 370, 385	J	
\HD@targetraisetrue	242	\jobname	224, 228
\HD@toclevel@index	147, 149, 159	K	
\HD@toclevel@subindex	151, 180	\kern	179, 181
\hdclindex	299	L	
\HDorg@autoindex	366, 376	\listoffigures	98, 99
\HDorg@bfseries	167, 170	\listoftables	111, 112
\HDorg@catcodeM	221, 226	\llap	261, 337
\HDorg@encapchar	279, 281, 291, 293, 355, 357, 372, 374, 386, 388, 405, 407	M	
\HDorg@glossary@prologue	189, 198, 202	\MacroFont	313, 314, 324, 325
\HDorg@index	296, 346, 354, 371	\MacroIndent	335, 336, 422, 423
\HDorg@index@prologue	137, 163	N	
\HDorg@listoffigures	98, 103, 108	\NeedsTeXFormat	2
\HDorg@listoftables	111, 116, 121	\newcounter	28, 207
\HDorg@MacroFont	313, 316, 324, 327	\newif	5, 209, 241
\HDorg@PrintDescribeMacro	310, 318	\newlength	208
\HDorg@PrintMacroName	321, 329	\newwrite	227
\HDorg@SortIndex	394, 399	\normalfont	43
\HDorg@SpecialEnvIndex	381, 390	\number	30, 415
\HDorg@SpecialUsageIndex	349	\numexpr	9
\HDorg@tableofcontents	73, 82, 84, 89, 94	O	
\HDorg@thebibliography	124, 129, 133	\openout	228
\HDorg@theCodelineNo	332, 334, 344, 422	P	
\HDorg@theglossary	187, 204	\PageIndex	274
\HDorg@theindex	135, 165	\paperheight	24
\HDorg@tilde	219, 225	\pdfbookmark	82, 89, 103, 116, 129, 159, 180, 198
\HDorg@wrglossary	403, 410	\pdfstringdefDisableCommands	39
\HDorg@writebookmark	138, 143, 158, 190, 196	\PrintDescribeMacro	310, 311
\hdpindex	305	\PrintMacroName	321, 322
\headheight	24	\ProcessOptions	7
\headsep	24	\providecommand	206
\hfil	171, 175, 184	\ProvidesPackage	3
\hspace	339	R	
\Hy@UseMaketitleInfos	32	\raisebox	178, 248
\Hy@writebookmark	52, 138, 143, 158, 190, 196	\refname	130
\hypercaltcbp	23	\renewcommand	29, 311, 322, 333, 350, 367, 382, 395
\hyperlink	301	\RequirePackage	8, 10, 12, 27
\hyperpage	307	S	
\hypersetup	18, 35	\scshape	44
\hypertarget	261	\section	64
I		\settoheight	246
\if@filesw	413	\settowidth	334, 422
\ifcase	80		

<code>\SortIndex</code>	394, 395	<code>\theCodelineNo</code>	332, 333
<code>\special@index</code>	272, 275	<code>\theglossary</code>	187, 188
<code>\SpecialEnvIndex</code>	381, 382	<code>\theHD@unique</code>	
<code>\SpecialUsageIndex</code>	349, 350		29 , 83, 90, 104, 117, 130, 160, 199
<code>\stepcounter</code>	81,	<code>\theindex</code>	135, 136
	88, 102, 115, 128, 157, 197, 259	<code>\topmargin</code>	24
T			
<code>\tableofcontents</code>	73, 74	V	
<code>\textbackslash</code>	42	<code>\value</code>	30, 415, 421
<code>\thanks</code>	40	W	
<code>\the</code> 151, 221, 261, 264, 282, 357, 374, 388		<code>\write</code>	239, 414
<code>\thebibliography</code>	124, 125		