

The hypdoc package

Heiko Oberdiek*

<heiko.oberdiek at gmail.com>

2018/09/07 v1.14

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 <code>source2e.tex</code>	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	<code>\tableofcontents</code>	6
3.5	<code>\listoffigures</code>	6
3.6	<code>\listoftables</code>	7
3.7	<code>\thebibliography</code>	7
3.8	<code>\theindex</code>	7
3.9	<code>\theglossary</code>	8
3.10	Index	9
3.11	<code>\PrintDescribeMacro</code>	11
3.12	<code>\PrintMacroName</code>	11
3.13	<code>\theCodelineNo</code>	12
3.14	<code>\SpecialUsageIndex</code>	12
3.15	<code>\autoindex</code>	12
3.16	<code>\SpecialEnvIndex</code>	13
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	15
4.5	Some details for the interested	15

*Please report any issues at <https://github.com/ho-tex/oberdiek/issues>

5 Catalogue	15
6 History	16
[2002/05/10 v1.0]	16
[2006/02/20 v1.1]	16
[2006/04/27 v1.2]	16
[2006/06/01 v1.3]	16
[2006/06/02 v1.4]	16
[2007/04/11 v1.5]	16
[2007/11/12 v1.6]	16
[2009/12/10 v1.7]	16
[2010/02/03 v1.8]	17
[2010/03/26 v1.9]	17
[2011/05/05 v1.10]	17
[2011/08/19 v1.11]	17
[2016/05/16 v1.12]	17
[2016/10/02 v1.13]	17
[2018/09/07 v1.14]	17

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` may additionally be 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 pdfL^AT_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 [2018/09/07 v1.14 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

```
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-\lin-\headheight-\headsep
26   }},%
27 }
```

```

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 }

```

3.2.1 Patch for bug latex/4096

```

47 \begingroup\expandafter\expandafter\expandafter\endgroup
48 \expandafter\ifx\csname mod@math@codes\endcsname\relax
49 \else
50   \def\HD@ModFix#1{%
51     \mathcode`#1=#1\relax
52   }%
53   \g@addto@macro\mod@math@codes{%
54     \HD@ModFix\-%
55     \HD@ModFix\+%
56     \HD@ModFix\:%
57     \HD@ModFix\=%
58     \HD@ModFix\*%
59   }%
60 \fi

```

3.3 Bookmarks

\HD@sectionpatch

```

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

```

\HD@@sectionpatch

```

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

```

\HD@disable@writebookmark

```

76 \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.

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

`\HD@@guesstoclevel`

```
80 \def\HD@@guesstoclevel#1#2\HD@end{%
81   \@ifundefined{toclevel@\expandafter\@gobble\string#1\@empty}{%
82     1%
83   }{%
84     \@nameuse{toclevel@\expandafter\@gobble\string#1\@empty}%
85   }%
86 }
```

3.4 `\tableofcontents`

`\HDorg@tableofcontents`

```
87 \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.

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

3.5 `\listoffigures`

`\HDorg@listoffigures`

```
112 \let\HDorg@listoffigures\listoffigures
```

`\listoffigures`

```
113 \def\listoffigures{%
114   \ifHD@numbered
115   \else
116     \stepcounter{HD@unique}%
117     \pdfbookmark[\HD@guesstoclevel{\HDorg@listoffigures}]%
118       {\listfigurename}{toc\theHD@unique}%
119   \fi
120   \begingroup
```

```

121 \HD@sectionpatch
122 \HDorg@listoffigures
123 \endgroup
124 }

```

3.6 \listoftables

\HDorg@listoftables

```

125 \let\HDorg@listoftables\listoftables

\listoftables

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

```

3.7 \thebibliography

\HDorg@thebibliography

```

138 \let\HDorg@thebibliography\thebibliography

\thebibliography

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

```

3.8 \theindex

\HDorg@theindex

```

149 \let\HDorg@theindex\theindex

\theindex

150 \def\theindex{%
151 \let\HDorg@index@prologue\index@prologue
152 \let\HDorg@writebookmark\Hy@writebookmark
153 \HD@sectionpatch
154 \g@addto@macro\IndexParms{%
155 \ifHD@numbered
156 \else
157 \let\Hy@writebookmark\HDorg@writebookmark
158 \fi
159 \let\bfseries\HD@bfseries
160 }%
161 \edef\HD@toclevel@index{\HD@guesstoclevel{\index@prologue}}%
162 \begingroup
163 \count@=\HD@toclevel@index\relax

```

```

164 \advance\count@ by 1 %
165 \xdef\HD@toclevel@subindex{\the\count@}%
166 \endgroup
167 \def\index@prologue{%
168 \ifHD@numbered
169 \else
170 \begingroup
171 \stepcounter{HD@unique}%
172 \let\Hy@writebookmark\HDorg@writebookmark
173 \pdfbookmark[\HD@toclevel@index]%
174 {\indexname}{index\theHD@unique}%
175 \endgroup
176 \fi
177 \HDorg@index@prologue
178 }%
179 \HDorg@theindex
180 }

```

\HDorg@bfseries

```
181 \let\HDorg@bfseries\bfseries
```

\HD@bfseries

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

```

\HD@@bfseries

```

183 \def\HD@@bfseries{%
184 \HDorg@bfseries
185 \ifx\HD@hfil\hfil
186 \expandafter\HD@@@bfseries
187 \fi
188 }

```

\HD@@@bfseries

```

189 \def\HD@@@bfseries\hfil#1\hfil{%
190 \ifx\#1\%
191 \else
192 \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
199 }%

```

\HD@margin

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

3.9 \theglossary

\HDorg@theglossary

```
201 \let\HDorg@theglossary\theglossary
```

\theglossary

```

202 \def\theglossary{%
203 \let\HDorg@glossary@prologue\glossary@prologue
204 \let\HDorg@writebookmark\Hy@writebookmark
205 \HD@sectionpatch
206 \def\glossary@prologue{%
207 \ifHD@numbered
208 \else

```



```

209 \begingroup
210 \let\Hy@writebookmark\HDorg@writebookmark
211 \stepcounter{HD@unique}%
212 \pdfbookmark[\HD@guesstoclevel{\HDorg@glossary@prologue}]{%
213   {\changehistoryname}{glossary\theHD@unique}}%
214 \endgroup
215 \fi
216 \HDorg@glossary@prologue
217 }%
218 \HDorg@theglossary
219 }

```

\glossaryname

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

\glossaryname

```
221 \providecommand*{\changehistoryname}{\glossaryname}
```

3.10 Index

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

\HD@helplength

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

\ifHD@savedest

```
224 \newif\ifHD@savedest
225 \HD@savedesttrue

```

```
226 \AtBeginDocument{%
227   \HD@savedest@init
228 }

```

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

\HD@savedest@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}{\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       \beginingroup\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   \beginingroup
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 \beginingroup\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     \beginingroup
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 hdclindex{\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 w

```

```

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}{\HD@Org@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 T_EX 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
```

¹<http://ctan.org/pkg/hypdoc>

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 `mktexlsr`.

4.5 Some details for the interested

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 [\$\text{T}_{\text{E}}\text{X}\$ 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' />
455   <copyright owner='Heiko Oberdiek' year='2002,2006,2007,2009-2011' />
456   <license type='lppl1.3' />
457   <version number='1.14' />
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'/>
469 <ctan file='true' path='/macros/latex/contrib/oberdiek/hypdoc.dtx'/>
470 <miktex location='oberdiek'/>
471 <texlive location='oberdiek'/>
472 <install path='/macros/latex/contrib/oberdiek/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`.

- Fix for bug latex/4096 added.

- Fix for bug latex/4096 added.

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

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

- `\raisebox` in `\HD@target` with height and depth of `0pt` (request of GL).

- `\raisebox` in `\HD@target` with height and depth of `0pt` (request of GL).

- Latest comma in option list for hyperref removed to avoid option clash because of L^AT_EX 2011/06/27 with the new `\in@`.

- Latest comma in option list for hyperref removed to avoid option clash because of L^AT_EX 2011/06/27 with the new `\in@`.

- Documentation updates.

- Documentation updates.

- Fixes to bookmarknames, also introduce `\changehistoryname`

- Fixes to bookmarknames, also introduce `\changehistoryname`

- Do not load thumpdf.

- Do not load thumpdf.

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	
*	58
\+	55
\,	279
\-	54
\:	56
\=	57
\@auxout	432, 435
\@bsphack	369, 386, 401, 414
\@empty	34, 43, 44, 81, 84, 282
\@esphack	379, 396, 410, 419
\@firstofone	232
\@gobble	40, 41, 81, 84, 249
\@ifstar	73
\@ifundefined	33, 81, 90, 144
\@namedef	72, 253
\@nameuse	73, 84
\@nil	298, 303, 310, 314, 424, 428
\@pdfsubject	34
\@undefined	10
\@wrglossary	421, 422
\\	190, 318, 324
\^	231, 237, 238, 242
\	352, 443
A	
\active	231, 238
\addtolength	265, 354
\advance	164
\AfterLastShipout	430
\and	45
\AtBeginDocument	226, 364
\autoindex	384, 385
B	
\baselineskip	192
\bfseries	159, 181
\bibname	144
C	
\c@HD@hypercount	279, 282, 300, 375, 392, 406
\c@section	91, 94
\catcode	231, 237, 238, 242
\changehistoryname	213, 221
\closeout	245
\codeline@wrindex	302
\CodelineIndex	289

\contentsname	97, 104	\HDorg@glossary@prologue	203, 212, 216
\count@	163, 164, 165	\HDorg@index	314, 364, 372, 389
\cs	42	\HDorg@index@prologue	151, 177
\csname	48, 70, 71, 282, 318, 324, 382	\HDorg@listoffigures	112, 117, 122
D		\HDorg@listoftables	125, 130, 135
\DeclareOption	6	\HDorg@MacroFont	331, 334, 342, 345
E		\HDorg@PrintDescribeMacro	328, 336
\encapchar	297, 298, 303, 309, 310, 314, 373, 374, 390, 391, 404, 405, 423, 424, 428	\HDorg@PrintMacroName	339, 347
\endcsname	48, 70, 71, 282, 318, 324, 382	\HDorg@SortIndex	412, 417
F		\HDorg@SpecialEnvIndex	399, 408
\fileinfo	35	\HDorg@SpecialUsageIndex	367
\footnote	41	\HDorg@tableofcontents	87, 96, 98, 103, 108
\futurelet	182	\HDorg@thebibliography	138, 143, 147
G		\HDorg@theCodelineNo	350, 352, 362, 443
\g@addto@macro	32, 53, 154, 289, 292	\HDorg@theglossary	201, 218
\glossary@prologue	203, 206	\HDorg@theindex	149, 179
\glossaryname	220, 221	\HDorg@tilde	235, 241
H		\HDorg@wrglossary	421, 428
\HD@@@bfseries	186, 189	\HDorg@writebookmark	152, 157, 172, 204, 210
\HD@bfseries	182, 183	\hdpindex	323
\HD@Guesstoclevel	78, 80	\headheight	25
\HD@Gsectionpatch	63, 64, 69	\headsep	25
\HD@bfseries	159, 182	\hfil	185, 189, 198
\HD@codeline@wrindex	290, 295	\hspace	357
\HD@disable@writebookmark	66, 76	\Hy@UseMaketitleInfos	32
\HD@end	78, 80	\Hy@writebookmark	66, 152, 157, 172, 204, 210
\HD@Guesstoclevel	77, 96, 103, 117, 130, 143, 161, 212	\hypercalscbp	24
\HD@helplength	223, 264, 265, 266, 352, 353, 354, 357	\hyperlink	319
\HD@hfil	182, 185	\hyperpage	325
\HD@maketarget	267, 270, 273, 276	\hypersetup	19, 35
\HD@margin	193, 195, 200	\hypertarget	279
\HD@ModFix	50, 54, 55, 56, 57, 58	I	
\HD@next	278, 284, 287	\if@files	431
\HD@numberedtrue	6	\ifcase	94
\HD@page@wrindex	293, 307, 416	\ifdim	353
\HD@savest@add	249, 256, 320	\ifHD@numbered	5, 62, 100, 114, 127, 140, 155, 168, 207
\HD@savest@entry	236, 252	\ifHD@savest	224, 234, 281
\HD@savest@init	227, 230	\ifHD@targetraise	259, 262
\HD@savest@out	243, 245, 247, 257	\ifhmode	263
\HD@savesttrue	225	\ifx	10, 34, 48, 185, 190, 282, 318, 324, 382
\HD@Gsectionpatch	61, 107, 121, 134, 146, 153, 205	\immediate	245, 247, 257, 432, 435
\HD@SetMacroIndent	433, 436, 440	\index	365, 372, 389, 416
\HD@target	261, 333, 344, 356, 360, 371, 388, 403	\index@prologue	151, 161, 167
\HD@targetraisetrue	260	\indexname	174
\HD@toclevel@index	161, 163, 173	\IndexParms	154
\HD@toclevel@subindex	165, 194	\InputIfFileExists	240
\hdclindex	317	J	
\HDorg@autoindex	384, 394	\jobname	240, 244, 247
\HDorg@bfseries	181, 184	K	
\HDorg@catcodeM	237, 242	\kern	193, 195
\HDorg@encapchar	297, 299, 309, 311, 373, 375, 390, 392, 404, 406, 423, 425	L	
		\listfigurename	118
		\listoffigures	112, 113

<code>\listoftables</code>	125, 126	<code>\refname</code>	144
<code>\listtablename</code>	131	<code>\renewcommand</code>	29, 329, 340, 351, 368, 385, 400, 413
<code>\llap</code>	279, 355	<code>\RequirePackage</code>	8, 9, 11, 13, 229
M		<code>\RerunFileCheck</code>	244
<code>\MacroFont</code>	331, 332, 342, 343	S	
<code>\MacroIndent</code>	353, 354, 443, 444	<code>\scshape</code>	44
<code>\mathcode</code>	51	<code>\section</code>	78
<code>\mod@math@codes</code>	53	<code>\settoheight</code>	264
N		<code>\settowidth</code>	352, 443
<code>\NeedsTeXFormat</code>	2	<code>\SortIndex</code>	412, 413
<code>\newcounter</code>	28, 222	<code>\special@index</code>	290, 293
<code>\newif</code>	5, 224, 259	<code>\SpecialEnvIndex</code>	399, 400
<code>\newlength</code>	223	<code>\SpecialUsageIndex</code>	367, 368
<code>\newwrite</code>	243	<code>\stepcounter</code>	95, 102, 116, 129, 142, 171, 211, 277
<code>\normalfont</code>	43	T	
<code>\number</code>	30, 436	<code>\tableofcontents</code>	87, 88
<code>\numexpr</code>	10	<code>\textbackslash</code>	42
O		<code>\thanks</code>	40
<code>\openout</code>	247	<code>\the</code> 165, 237, 279, 282, 300, 375, 392, 406	
P		<code>\thebibliography</code>	138, 139
<code>\PageIndex</code>	292	<code>\theCodelineNo</code>	350, 351
<code>\paperheight</code>	25	<code>\theglossary</code>	201, 202
<code>\pdfbookmark</code>	96, 103, 117, 130, 143, 173, 194, 212	<code>\theHD@unique</code>	29, 97, 104, 118, 131, 144, 174, 213
<code>\pdfstringdefDisableCommands</code>	39	<code>\theindex</code>	149, 150
<code>\PrintDescribeMacro</code>	328, 329	<code>\topmargin</code>	25
<code>\PrintMacroName</code>	339, 340	V	
<code>\ProcessOptions</code>	7	<code>\value</code>	30, 436, 442
<code>\providecommand</code>	220, 221, 433	W	
<code>\ProvidesPackage</code>	3	<code>\write</code>	257, 432, 435
R			
<code>\raisebox</code>	192, 266		