

The hypdoc package

Heiko Oberdiek*

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>	7
3.6	<code>\listoftables</code>	7
3.7	<code>\thebibliography</code>	7
3.8	<code>\theindex</code>	8
3.9	<code>\theglossary</code>	9
3.10	Index	9
3.11	<code>\PrintDescribeMacro</code>	12
3.12	<code>\PrintMacroName</code>	12
3.13	<code>\theCodelineNo</code>	12
3.14	<code>\SpecialUsageIndex</code>	13
3.15	<code>\autoindex</code>	13
3.16	<code>\SpecialEnvIndex</code>	14
3.17	<code>\SortIndex</code>	14
3.18	<code>\@wrglossary</code>	14
3.19	<code>\MacroIndent</code>	14

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

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	History	16
[2002/05/10 v1.0]		16
[2006/02/20 v1.1]		17
[2006/04/27 v1.2]		17
[2006/06/01 v1.3]		17
[2006/06/02 v1.4]		17
[2007/04/11 v1.5]		17
[2007/11/12 v1.6]		17
[2009/12/10 v1.7]		17
[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]		18
[2016/10/02 v1.13]		18
[2018/09/07 v1.14]		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` 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 pdfL^AT_EX.

```
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 [2018/09/07 v1.14 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{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 \hypercaltcbp{%
25 \paperheight-\topmargin-1in-\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\expandafter\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{}%
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}[Opt]{%
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@savest

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

```

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}{}\,}%
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\c@name 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 T_EX Files” ([CTAN:pkg/tds](#)). 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
```

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[CTAN: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 ($\text{T}_{\text{E}}\text{X}$ Live, `mik $\text{T}_{\text{E}}\text{X}$` , ...) relies on file name databases, you must refresh these. For example, $\text{T}_{\text{E}}\text{X}$ Live 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 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@`.

[2016/05/16 v1.12]

- Documentation updates.

[2016/10/02 v1.13]

- Fixes to bookmarknames, also introduce \changehistoryname

[2018/09/07 v1.14]

- Do not load thumpdf.

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; 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, <u>422</u>
\	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, <u>385</u>
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	<u>289</u>
\contentsname	97, 104
\count@	163, 164, 165
\cs	42
\csname	48, 70, 71, 282, 318, 324, 382
D	
\DeclareOption	6
E	
\encapchar	297, 298, 303, 309, 310, 314, 373, 374, 390, 391, 404, 405, 423, 424, 428
\endcsname	48, 70, 71, 282, 318, 324, 382
F	
\fileinfo	35
\footnote	41
\futurelet	182
G	
\g@addto@macro	32, 53, 154, 289, 292
\glossary@prologue	203, 206
\glossaryname	<u>220</u> , <u>221</u>
H	
\HD@@@bfseries	186, <u>189</u>
\HD@@bfseries	182, <u>183</u>
\HD@@guesstoclevel	78, <u>80</u>
\HD@@sectionpatch	63, 64, <u>69</u>

\HD@bfseries	159, 182	\headsep	25
\HD@codeline@wrindex	290, 295	\hfil	185, 189, 198
\HD@disable@writebookmark	66, 76	\hspace	357
\HD@end	78, 80	\Hy@UseMaketitleInfos	32
\HD@guesstoclevel	77,	\Hy@writebookmark	
96, 103, 117, 130, 143, 161, 212			66, 152, 157, 172, 204, 210
\HD@helplength	223,	\hypercalcbp	24
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		
\HD@next	278, 284, 287	I	
\HD@numberedtrue	6	\if@files	431
\HD@page@wrindex	293, 307, 416	\ifcase	94
\HD@savedest@add	249, 256, 320	\ifdim	353
\HD@savedest@entry	236, 252	\ifHD@numbered	5,
\HD@savedest@init	227, 230	62, 100, 114, 127, 140, 155, 168, 207	
\HD@savedest@out	243, 245, 247, 257	\ifHD@savedest	224, 234, 281
\HD@savedesttrue	225	\ifHD@targetraise	259, 262
\HD@sectionpatch		\ifhmode	263
61, 107, 121, 134, 146, 153, 205		\ifx	10,
\HD@SetMacroIndent	433, 436, 440	34, 48, 185, 190, 282, 318, 324, 382	
\HD@target	261,	\immediate	245, 247, 257, 432, 435
333, 344, 356, 360, 371, 388, 403		\index	365, 372, 389, 416
\HD@targetraisetrue	260	\index@prologue	151, 161, 167
\HD@toclevel@index	161, 163, 173	\indexname	174
\HD@toclevel@subindex	165, 194	\IndexParms	154
\hdclindex	317	\InputIfFileExists	240
\HDorg@autoindex	384, 394	J	
\HDorg@bfseries	181, 184	\jobname	240, 244, 247
\HDorg@catcodeM	237, 242	K	
\HDorg@encapchar		\kern	193, 195
297, 299, 309, 311, 373,		L	
375, 390, 392, 404, 406, 423, 425		\listfigurename	118
\HDorg@glossary@prologue	203, 212, 216	\listoffigures	112, 113
\HDorg@index	314, 364, 372, 389	\listoftables	125, 126
\HDorg@index@prologue	151, 177	\listtablename	131
\HDorg@listoffigures	112, 117, 122	\llap	279, 355
\HDorg@listoftables	125, 130, 135	M	
\HDorg@MacroFont	331, 334, 342, 345	\MacroFont	331, 332, 342, 343
\HDorg@PrintDescribeMacro	328, 336	\MacroIndent	353, 354, 443, 444
\HDorg@PrintMacroName	339, 347	\mathcode	51
\HDorg@SortIndex	412, 417	\mod@math@codes	53
\HDorg@SpecialEnvIndex	399, 408	N	
\HDorg@SpecialUsageIndex	367	\NeedsTeXFormat	2
\HDorg@tableofcontents		\newcounter	28, 222
87, 96, 98, 103, 108		\newif	5, 224, 259
\HDorg@thebibliography	138, 143, 147	\newlength	223
\HDorg@theCodelineNo	350, 352, 362, 443	\newwrite	243
\HDorg@theglossary	201, 218	\normalfont	43
\HDorg@theindex	149, 179	\number	30, 436
\HDorg@tilde	235, 241	\numexpr	10
\HDorg@wrglossary	421, 428	O	
\HDorg@writebookmark		\openout	247
152, 157, 172, 204, 210			
\hdpindex	323		
\headheight	25		

P		<code>\SortIndex</code> 412, 413
<code>\PageIndex</code> 292		<code>\special@index</code> 290, 293
<code>\paperheight</code> 25		<code>\SpecialEnvIndex</code> 399, 400
<code>\pdfbookmark</code> 96,		<code>\SpecialUsageIndex</code> 367, 368
103, 117, 130, 143, 173, 194, 212		<code>\stepcounter</code> 95,
<code>\pdfstringdefDisableCommands</code> . . . 39		102, 116, 129, 142, 171, 211, 277
<code>\PrintDescribeMacro</code> 328, 329		
<code>\PrintMacroName</code> 339, 340		T
<code>\ProcessOptions</code> 7		<code>\tableofcontents</code> 87, 88
<code>\providecommand</code> 220, 221, 433		<code>\textbackslash</code> 42
<code>\ProvidesPackage</code> 3		<code>\thanks</code> 40
R		<code>\the</code> 165, 237, 279, 282, 300, 375, 392, 406
<code>\raisebox</code> 192, 266		<code>\thebibliography</code> 138, 139
<code>\refname</code> 144		<code>\theCodelineNo</code> 350, 351
<code>\renewcommand</code> 29,		<code>\theglossary</code> 201, 202
329, 340, 351, 368, 385, 400, 413		<code>\theHD@unique</code> 29,
<code>\RequirePackage</code> 8, 9, 11, 13, 229		97, 104, 118, 131, 144, 174, 213
<code>\RerunFileCheck</code> 244		<code>\theindex</code> 149, 150
S		<code>\topmargin</code> 25
<code>\scshape</code> 44		V
<code>\section</code> 78		<code>\value</code> 30, 436, 442
<code>\settoheight</code> 264		
<code>\settowidth</code> 352, 443		W
		<code>\write</code> 257, 432, 435