

The hypdoc package

Heiko Oberdiek*

2022-06-14 v1.16

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 |
| 3.3 | 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> | 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> | 13 |
| 3.17 | <code>\SortIndex</code> | 14 |
| 3.18 | <code>\@wrglossary</code> | 14 |
| 3.19 | <code>\MacroIndent</code> | 14 |
| 4 | Installation | 15 |
| 4.1 | Download | 15 |
| 4.2 | Package installation | 15 |
| 4.3 | Refresh file name databases | 15 |
| 4.4 | Some details for the interested | 15 |

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

| | | |
|----------|--------------------|-----------|
| 5 | 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] | 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] | 17 |
| | [2016/10/02 v1.13] | 17 |
| | [2018/09/07 v1.14] | 17 |
| | [2021-11-15 v1.15] | 17 |
| | [2022-06-14 v1.16] | 17 |
| 6 | Index | 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 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 [2022-06-14 v1.16 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 \@ifpackageloaded{hyperref}
14 {\PackageWarning{hypdoc}{hyperref has been loaded before. Check the options!}}
15 {\RequirePackage[%
16 hyperindex=false,%

```

```

17 pdfusetitle,%
18 pdfpagelabels%
19 ]{hyperref}[2002/05/09]%
20 }
21 \hypersetup{%
22 colorlinks,%
23 plainpages=false,%
24 bookmarksopen,%
25 bookmarksnumbered,%
26 bookmarksopenlevel=0,%
27 pdfstartview={FitBH \hypercalcbp{%
28 \paperheight-\topmargin-1in-\headheight-\headsep
29 }},%
30 }
31 \newcounter{HD@unique}

\theHD@unique

32 \renewcommand{\theHD@unique}{%
33 \number\value{HD@unique}%
34 }

35 \g@addto@macro\Hy@UseMaketitleInfos{%
36 \@ifundefined{fileinfo}{}%
37 \ifx\@pdfsubject\@empty
38 \hypersetup{pdfsubject={\fileinfo}}%
39 \fi
40 }%
41 }

42 \pdfstringdefDisableCommands{%
43 \let\thanks\@gobble
44 \let\footnote\@gobble
45 \def\cs#1{\textbackslash #1}%
46 \let\normalfont\@empty
47 \let\scshape\@empty
48 \def\and{and }%
49 }

```

3.3 Bookmarks

```

\HD@sectionpatch

50 \def\HD@sectionpatch{%
51 \ifHD@numbered
52 \HD@@sectionpatch{section}%
53 \HD@@sectionpatch{chapter}%
54 \else
55 \let\Hy@writebookmark\HD@disable@writebookmark
56 \fi
57 }

\HD@@sectionpatch

58 \def\HD@@sectionpatch#1{%
59 \expandafter\let\csname HDorg@@#1\expandafter\endcsname
60 \csname #1\endcsname
61 \@namedef{#1}{%
62 \ifstar{\@nameuse{HDorg@@#1}}{\@nameuse{HDorg@@#1}}%
63 }%
64 }

```

\HD@disable@writebookmark

```
65 \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.

```
66 \def\HD@guesstoclevel#1{%
67   \expandafter\HD@@guesstoclevel#1\section\HD@end
68 }
```

\HD@@guesstoclevel

```
69 \def\HD@@guesstoclevel#1#2\HD@end{%
70   \@ifundefined{toclevel@}\expandafter\@gobble\string#1\@empty}{%
71     1%
72   }{%
73     \@nameuse{toclevel@}\expandafter\@gobble\string#1\@empty}%
74   }%
75 }
```

3.4 \tableofcontents

\HDorg@tableofcontents

```
76 \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.

```
77 \def\tableofcontents{%
78   \begingroup
79   \@ifundefined{c@section}{%
80     \def\c@section{0}%
81   }{%
82     \expandafter\endgroup
83     \ifcase\c@section
84       \stepcounter{HD@unique}%
85       \pdfbookmark[\HD@guesstoclevel{\HDorg@tableofcontents}]{%
86         {\contentsname}{toc\theHD@unique}%
87       \HDorg@tableofcontents
88     \else
89       \ifHD@numbered
90       \else
91         \stepcounter{HD@unique}%
92         \pdfbookmark[\HD@guesstoclevel{\HDorg@tableofcontents}]{%
93           {\contentsname}{toc\theHD@unique}%
94       \fi
95     \begingroup
96       \HD@sectionpatch
97       \HDorg@tableofcontents
98     \endgroup
99   \fi
100 }
```

3.5 \listoffigures

\HDorg@listoffigures

```
101 \let\HDorg@listoffigures\listoffigures
```

`\listoffigures`

```
102 \def\listoffigures{%
103   \ifHD@numbered
104   \else
105     \stepcounter{HD@unique}%
106     \pdfbookmark[\HD@guesstoclevel{\HDorg@listoffigures}]{%
107       {\listfigurename}{toc\theHD@unique}%
108     \fi
109   \begingroup
110     \HD@sectionpatch
111     \HDorg@listoffigures
112   \endgroup
113 }
```

3.6 `\listoftables`

`\HDorg@listoftables`

```
114 \let\HDorg@listoftables\listoftables
```

`\listoftables`

```
115 \def\listoftables{%
116   \ifHD@numbered
117   \else
118     \stepcounter{HD@unique}%
119     \pdfbookmark[\HD@guesstoclevel{\HDorg@listoftables}]{%
120       {\listtablename}{toc\theHD@unique}%
121     \fi
122   \begingroup
123     \HD@sectionpatch
124     \HDorg@listoftables
125   \endgroup
126 }
```

3.7 `\thebibliography`

`\HDorg@thebibliography`

```
127 \let\HDorg@thebibliography\thebibliography
```

`\thebibliography`

```
128 \def\thebibliography{%
129   \ifHD@numbered
130   \else
131     \stepcounter{HD@unique}%
132     \pdfbookmark[\HD@guesstoclevel{\HDorg@thebibliography}]{%
133       {\@ifundefined{chapter}{\refname}{\bibname}}{\bib\theHD@unique}%
134     \fi
135     \HD@sectionpatch
136     \HDorg@thebibliography
137 }
```

3.8 `\theindex`

`\HDorg@theindex`

```
138 \let\HDorg@theindex\theindex
```

```

\theindex
139 \def\theindex{%
140   \let\HDorg@index@prologue\index@prologue
141   \let\HDorg@writebookmark\Hy@writebookmark
142   \HD@sectionpatch
143   \g@addto@macro\IndexParms{%
144     \ifHD@numbered
145     \else
146       \let\Hy@writebookmark\HDorg@writebookmark
147     \fi
148     \let\bfseries\HD@bfseries
149   }%
150   \edef\HD@toclevel@index{\HD@guesstoclevel{\index@prologue}}%
151   \begingroup
152     \count@=\HD@toclevel@index\relax
153     \advance\count@ by 1 %
154     \xdef\HD@toclevel@subindex{\the\count@}%
155   \endgroup
156   \def\index@prologue{%
157     \ifHD@numbered
158     \else
159       \begingroup
160         \stepcounter{HD@unique}%
161         \let\Hy@writebookmark\HDorg@writebookmark
162         \pdfbookmark[\HD@toclevel@index]%
163           {\indexname}{index\theHD@unique}%
164       \endgroup
165     \fi
166     \HDorg@index@prologue
167   }%
168   \HDorg@theindex
169 }

\HDorg@bfseries
170 \let\HDorg@bfseries\bfseries

\HD@bfseries
171 \def\HD@bfseries{\futurelet\HD@hfil\HD@@bfseries}%

\HD@@bfseries
172 \def\HD@@bfseries{%
173   \HDorg@bfseries
174   \ifx\HD@hfil\hfil
175     \expandafter\HD@@@bfseries
176   \fi
177 }

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

```



```

188 }%

\HD@margin
189 \def\HD@margin{1mm}

3.9 \theglossary

\HDorg@theglossary
190 \let\HDorg@theglossary\theglossary

\theglossary
191 \def\theglossary{%
192   \let\HDorg@glossary@prologue\glossary@prologue
193   \let\HDorg@writebookmark\Hy@writebookmark
194   \HD@sectionpatch
195   \def\glossary@prologue{%
196     \ifHD@numbered
197     \else
198       \begingroup
199         \let\Hy@writebookmark\HDorg@writebookmark
200         \stepcounter{HD@unique}%
201         \pdfbookmark[\HD@guesstoclevel{\HDorg@glossary@prologue}]{%
202           {\changehistoryname}{glossary\theHD@unique}}%
203       \endgroup
204     \fi
205     \HDorg@glossary@prologue
206   }%
207   \HDorg@theglossary
208 }

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

\glossaryname
210 \providecommand*{\changehistoryname}{\glossaryname}

3.10 Index

211 \newcounter{HD@hypercount}

\HD@helplength
212 \newlength{\HD@helplength}

\ifHD@savest
213 \newif\ifHD@savest
214 \HD@savesttrue

215 \AtBeginDocument{%
216   \HD@savest@init
217 }

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

\HD@savest@init
219 \begingroup
220   \catcode'\^^M=\active
221   \@firstofone{\endgroup
222   \def\HD@savest@init{%

```

```

223 \ifHD@savedest
224 \let\HDorg@tilde~%
225 \let~\HD@savedest@entry
226 \edef\HDorg@catcodeM{\the\catcode'\^~M}%
227 \catcode'\^~M=\active
228 \def^~M{%
229 \InputIfFileExists{\jobname.hd}{~}{~}%
230 \let~\HDorg@tilde
231 \catcode'\^~M=\HDorg@catcodeM\relax
232 \newwrite\HD@savedest@out
233 \RerunFileCheck{\jobname.hd}{~}%
234 \immediate\closeout\HD@savedest@out
235 ~}%
236 \immediate\openout\HD@savedest@out=\jobname.hd\relax
237 \else
238 \let\HD@savedest@add\@gobble
239 \fi
240 }%

\HD@savedest@entry
241 \def\HD@savedest@entry#1^~M{%
242 \@namedef{HD.#1}{~}%
243 }%
244 }

\HD@savedest@add
245 \def\HD@savedest@add#1{%
246 \immediate\write\HD@savedest@out{\string~#1}%
247 }

\ifHD@targetraise
248 \newif\ifHD@targetraise
249 \HD@targetraisetrue

\HD@target
250 \def\HD@target{%
251 \ifHD@targetraise
252 \ifhmode
253 \settoheight{\HD@helplength}{[H]}%
254 \addtolength{\HD@helplength}{0.4ex}%
255 \raisebox{\HD@helplength}[0pt][0pt]{%
256 \HD@maketarget
257 }%
258 \else
259 \HD@maketarget
260 \fi
261 \else
262 \HD@maketarget
263 \fi
264 }

\HD@maketarget
265 \def\HD@maketarget{%
266 \stepcounter{HD@hypercount}%
267 \def\HD@next{%
268 \llap{\hypertarget{HD.\the\c@HD@hypercount}{~},}%
269 }%
270 \ifHD@savedest

```

```

271 \expandafter\ifx\csname HD.\the\c@HD@hypercount\endcsname\@empty
272 \else
273 \let\HD@next\relax
274 \fi
275 \fi
276 \HD@next
277 }

\CodelineIndex
278 \g@addto@macro\CodelineIndex{%
279 \let\special@index\HD@codeline@wrindex
280 }

\PageIndex
281 \g@addto@macro\PageIndex{%
282 \let\special@index\HD@page@wrindex
283 }

\HD@codeline@wrindex
284 \def\HD@codeline@wrindex#1{%
285 \begingroup
286 \let\HDorg@encapchar\encapchar
287 \def\encapchar##1\encapchar##2\@nil{%
288 \HDorg@encapchar
289 hdclindex{\the\c@HD@hypercount}{##1}%
290 }%
291 \codeline@wrindex{%
292 #1\encapchar\encapchar\@nil
293 }%
294 \endgroup
295 }

\HD@page@wrindex
296 \def\HD@page@wrindex#1{%
297 \begingroup
298 \let\HDorg@encapchar\encapchar
299 \def\encapchar##1\encapchar##2\@nil{%
300 \HDorg@encapchar
301 hdpindex{##1}%
302 }%
303 \HDorg@index{#1\encapchar\encapchar\@nil}%
304 \endgroup
305 }

\hdclindex
306 \def\hdclindex#1#2#3{%
307 \csname\ifx\#2\relax\else#2\fi\endcsname{%
308 \hyperlink{HD.#1}{#3}%
309 \HD@savedest@add{#1}%
310 }%
311 }

\hdpindex
312 \def\hdpindex#1#2{%
313 \csname\ifx\#1\relax\else#1\fi\endcsname{%
314 \hyperpage{#2}%
315 }%
316 }

```

3.11 \PrintDescribeMacro

```
\HDorg@PrintDescribeMacro
317 \let\HDorg@PrintDescribeMacro\PrintDescribeMacro

\PrintDescribeMacro
318 \renewcommand\PrintDescribeMacro[1]{%
319   \begingroup
320   \let\HDorg@MacroFont\MacroFont
321   \def\MacroFont{%
322     \HD@target
323     \HDorg@MacroFont
324   }%
325   \HDorg@PrintDescribeMacro{#1}%
326 \endgroup
327 }
```

3.12 \PrintMacroName

```
\HDorg@PrintMacroName
328 \let\HDorg@PrintMacroName\PrintMacroName

\PrintMacroName
329 \renewcommand\PrintMacroName[1]{%
330   \begingroup
331   \let\HDorg@MacroFont\MacroFont
332   \def\MacroFont{%
333     \HD@target
334     \HDorg@MacroFont
335   }%
336   \HDorg@PrintMacroName{#1}%
337 \endgroup
338 }
```

3.13 \theCodelineNo

```
\HDorg@theCodelineNo
339 \let\HDorg@theCodelineNo\theCodelineNo

\theCodelineNo
340 \renewcommand*\theCodelineNo{%
341   \settowidth{\HD@helplength}{\HDorg@theCodelineNo\ }%
342   \ifdim\HD@helplength<\MacroIndent
343     \addtolength{\HD@helplength}{-\MacroIndent}%
344     \llap{%
345       \begingroup\HD@target\endgroup
346       \hspace*{\HD@helplength}%
347     }%
348   \else
349     \HD@target
350   \fi
351   \HDorg@theCodelineNo
352 }

\HDorg@index
353 \AtBeginDocument{%
354   \let\HDorg@index\index
355 }
```

3.14 \SpecialUsageIndex

\HDorg@SpecialUsageIndex

```
356 \let\HDorg@SpecialUsageIndex\SpecialUsageIndex
357 \renewcommand*\SpecialUsageIndex[1]{%
358   \@bsphack
359   \begingroup
360     \HD@target
361     \let\index\HDorg@index
362     \let\HDorg@encapchar\encapchar
363     \edef\encapchar usage{%
364       \HDorg@encapchar hdclindex{\the\c@HD@hypercount}{usage}%
365     }%
366     \HDorg@SpecialUsageIndex{#1}%
367   \endgroup
368   \@esphack
369 }
```

3.15 \autoindex

```
370 \begingroup\expandafter\expandafter\expandafter\endgroup
371 \expandafter\ifx\csname autoindex\endcsname\relax
372 \else
```

\HDorg@autoindex

```
373   \let\HDorg@autoindex\autoindex
```

\autoindex

```
374   \renewcommand*\autoindex[1]{%
375     \@bsphack
376     \begingroup
377       \HD@target
378       \let\index\HDorg@index
379       \let\HDorg@encapchar\encapchar
380       \edef\encapchar usage{%
381         \HDorg@encapchar hdclindex{\the\c@HD@hypercount}{usage}%
382       }%
383       \HDorg@autoindex{#1}%
384     \endgroup
385     \@esphack
386   }%
387 \pdfstringdefDisableCommands{\let\autoindex\@gobble }
388 \fi
```

3.16 \SpecialEnvIndex

\HDorg@SpecialEnvIndex

```
389 \let\HDorg@SpecialEnvIndex\SpecialEnvIndex
```

\SpecialEnvIndex

```
390 \renewcommand*\SpecialEnvIndex[1]{%
391   \@bsphack
392   \begingroup
393     \HD@target
394     \let\HDorg@encapchar\encapchar
395     \edef\encapchar usage{%
396       \HDorg@encapchar hdclindex{\the\c@HD@hypercount}{usage}%
397     }%
```

```

398 \HDorg@SpecialEnvIndex{#1}%
399 \endgroup
400 \@esphack
401 }

```

3.17 \SortIndex

\HDorg@SortIndex

```

402 \let\HDorg@SortIndex\SortIndex

```

\SortIndex

```

403 \renewcommand*{\SortIndex}[2]{%
404 \@bsphack
405 \begingroup
406 \let\index\HD@page@windex
407 \HDorg@SortIndex{#1}{#2}%
408 \endgroup
409 \@esphack
410 }

```

3.18 \@wrglossary

\HDorg@wrglossary

```

411 \let\HDorg@wrglossary\@wrglossary

```

\@wrglossary

```

412 \def\@wrglossary#1{%
413 \let\HDorg@encapchar\encapchar
414 \def\encapchar##1\encapchar##2\@nil{%
415 \HDorg@encapchar
416 hdpindex{##1}%
417 }%
418 \HDorg@wrglossary{#1\encapchar\encapchar\@nil}%
419 }

```

3.19 \MacroIndent

\MacroIndent automatically calculated.

```

420 \AfterLastShipout{%
421 \if@files
422 \immediate\write\@auxout{%
423 \string\providecommand\string\HD@SetMacroIndent[1]{}%
424 }%
425 \immediate\write\@auxout{%
426 \string\HD@SetMacroIndent{\number\value{CodelineNo}}%
427 }%
428 \fi
429 }

```

\HD@SetMacroIndent

```

430 \def\HD@SetMacroIndent#1{%
431 \begingroup
432 \value{CodelineNo}=#1\relax
433 \settowidth{\MacroIndent}{\HDorg@theCodelineNo\ }%
434 \global\MacroIndent\MacroIndent
435 \endgroup
436 }

```

4 Installation

4.1 Download

Package. This package is available on CTAN¹:

[CTAN:macros/latex/contrib/hypdoc/hypdoc.dtx](#) The source file.

[CTAN:macros/latex/contrib/hypdoc/hypdoc.pdf](#) Documentation.

4.2 Package installation

The best is to install the package with the package manager of your T_EX distribution. If a manual installation is needed:

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
```

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

4.3 Refresh file name databases

If your T_EX distribution (T_EX Live, MiK_T_EX, ...) relies on file name databases, you must refresh these. For example, T_EX Live users run `texhash` or `mktextlsr`.

4.4 Some details for the interested

Unpacking with L^AT_EX. The `.dtx` chooses its action depending on the format:

plain T_EX: Run `docstrip` and extract the files.

L^AT_EX: Generate the documentation.

If you insist on using L^AT_EX for `docstrip` (really, `docstrip` does not need L^AT_EX), 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.

¹[CTAN:pkg/hypdoc](#)

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 pdfL^AT_EX:

```
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`.

[2021-11-15 v1.15]

- removed an old, unneeded patch for latex/4096
- added a `\pdfstringdefDisableCommands` setting for `\autoindex`

[2022-06-14 v1.16]

- Avoid to load `hyperref` if has been already loaded, issue #1

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 | |
|------------------------------|--|
| <code>\,</code> | <code>\@firstofone</code> 221 |
| <code>\@auxout</code> | <code>\@gobble</code> 43, 44, 70, 73, 238, 387 |
| <code>\@bsphack</code> | <code>\@ifpackageloaded</code> 13 |
| <code>\@empty</code> | <code>\@ifstar</code> 62 |
| <code>\@esphack</code> | <code>\@ifundefined</code> 36, 70, 79, 133 |
| | <code>\@namedef</code> 61, 242 |

| | | | |
|--------------------|---|---------------------------|--|
| \@nameuse | 62, 73 | \HD@guesstoclevel | 67, 69 |
| \@nil | 287, 292, 299, 303, 414, 418 | \HD@sectionpatch | 52, 53, 58 |
| \@pdfsubject | 37 | \HD@bfseries | 148, 171 |
| \@undefined | 10 | \HD@codeline@wrindex | 279, 284 |
| \@wrglossary | 411, 412 | \HD@disable@writebookmark | 55, 65 |
| \\ | 179, 307, 313 | \HD@end | 67, 69 |
| _ | 341, 433 | \HD@guesstoclevel | 66, 85, 92, 106, 119, 132, 150, 201 |
| \^ | 220, 226, 227, 231 | \HD@helplength | 212, 253, 254, 255, 341, 342, 343, 346 |
| A | | | |
| \active | 220, 227 | \HD@hfil | 171, 174 |
| \addtolength | 254, 343 | \HD@maketarget | 256, 259, 262, 265 |
| \advance | 153 | \HD@margin | 182, 184, 189 |
| \AfterLastShipout | 420 | \HD@next | 267, 273, 276 |
| \and | 48 | \HD@numberedtrue | 6 |
| \AtBeginDocument | 215, 353 | \HD@page@wrindex | 282, 296, 406 |
| \autoindex | 373, 374 | \HD@savedest@add | 238, 245, 309 |
| B | | | |
| \baselineskip | 181 | \HD@savedest@entry | 225, 241 |
| \bfseries | 148, 170 | \HD@savedest@init | 216, 219 |
| \bibname | 133 | \HD@savedest@out | 232, 234, 236, 246 |
| C | | | |
| \c@HD@hypercount | 268, 271, 289, 364, 381, 396 | \HD@savedesttrue | 214 |
| \c@section | 80, 83 | \HD@sectionpatch | 50, 96, 110, 123, 135, 142, 194 |
| \catcode | 220, 226, 227, 231 | \HD@SetMacroIndent | 423, 426, 430 |
| \changehistoryname | 202, 210 | \HD@target | 322, 333, 345, 349, 360, 377, 393 |
| \closeout | 234 | \HD@targetraisetrue | 249 |
| \codeline@wrindex | 291 | \HD@toclevel@index | 150, 152, 162 |
| \CodelineIndex | 278 | \HD@toclevel@subindex | 154, 183 |
| \contentsname | 86, 93 | \hdclindex | 306 |
| \count@ | 152, 153, 154 | \HDorg@autoindex | 373, 383 |
| \cs | 45 | \HDorg@bfseries | 170, 173 |
| \csname | 59, 60, 271, 307, 313, 371 | \HDorg@catcodeM | 226, 231 |
| D | | | |
| \DeclareOption | 6 | \HDorg@encapchar | 286, 288, 298, 300, 362, 364, 379, 381, 394, 396, 413, 415 |
| E | | | |
| \encapchar | 286, 287, 292, 298, 299, 303, 362, 363, 379, 380, 394, 395, 413, 414, 418 | \HDorg@glossary@prologue | 192, 201, 205 |
| \endcsname | 59, 60, 271, 307, 313, 371 | \HDorg@index | 303, 353, 361, 378 |
| F | | | |
| \fileinfo | 38 | \HDorg@index@prologue | 140, 166 |
| \footnote | 44 | \HDorg@listoffigures | 101, 106, 111 |
| \futurelet | 171 | \HDorg@listoftables | 114, 119, 124 |
| G | | | |
| \g@addto@macro | 35, 143, 278, 281 | \HDorg@MacroFont | 320, 323, 331, 334 |
| \glossary@prologue | 192, 195 | \HDorg@PrintDescribeMacro | 317, 325 |
| \glossaryname | 209, 210 | \HDorg@PrintMacroName | 328, 336 |
| H | | | |
| \HD@@@bfseries | 175, 178 | \HDorg@SortIndex | 402, 407 |
| \HD@@bfseries | 171, 172 | \HDorg@SpecialEnvIndex | 389, 398 |
| | | \HDorg@SpecialUsageIndex | 356 |
| | | \HDorg@tableofcontents | 76, 85, 87, 92, 97 |
| | | \HDorg@thebibliography | 127, 132, 136 |
| | | \HDorg@theCodelineNo | 339, 341, 351, 433 |
| | | \HDorg@theglossary | 190, 207 |
| | | \HDorg@theindex | 138, 168 |
| | | \HDorg@tilde | 224, 230 |
| | | \HDorg@wrglossary | 411, 418 |
| | | \HDorg@writebookmark | 141, 146, 161, 193, 199 |
| | | \hdpinindex | 312 |

| | | | |
|------------------------------|---|--|--|
| \headheight | 28 | | |
| \headsep | 28 | | |
| \hfil | 174, 178, 187 | | |
| \hspace | 346 | | |
| \Hy@UseMaketitleInfos | 35 | | |
| \Hy@writebookmark | 55, 141, 146, 161, 193, 199 | | |
| \hypercalcbp | 27 | | |
| \hyperlink | 308 | | |
| \hyperpage | 314 | | |
| \hypersetup | 21, 38 | | |
| \hypertarget | 268 | | |
| I | | | |
| \if@filesw | 421 | | |
| \ifcase | 83 | | |
| \ifdim | 342 | | |
| \ifHD@numbered | 5, 51, 89, 103, 116, 129, 144, 157, 196 | | |
| \ifHD@savedest | 213, 223, 270 | | |
| \ifHD@targetraise | 248, 251 | | |
| \ifhmode | 252 | | |
| \ifx | 10, 37, 174, 179, 271, 307, 313, 371 | | |
| \immediate | 234, 236, 246, 422, 425 | | |
| \index | 354, 361, 378, 406 | | |
| \index@prologue | 140, 150, 156 | | |
| \indexname | 163 | | |
| \IndexParms | 143 | | |
| \InputIfFileExists | 229 | | |
| J | | | |
| \jobname | 229, 233, 236 | | |
| K | | | |
| \kern | 182, 184 | | |
| L | | | |
| \listfigurename | 107 | | |
| \listoffigures | 101, 102 | | |
| \listoftables | 114, 115 | | |
| \listtablename | 120 | | |
| \llap | 268, 344 | | |
| M | | | |
| \MacroFont | 320, 321, 331, 332 | | |
| \MacroIndent | 342, 343, 433, 434 | | |
| N | | | |
| \NeedsTeXFormat | 2 | | |
| \newcounter | 31, 211 | | |
| \newif | 5, 213, 248 | | |
| \newlength | 212 | | |
| \newwrite | 232 | | |
| \normalfont | 46 | | |
| \number | 33, 426 | | |
| \numexpr | 10 | | |
| O | | | |
| \openout | 236 | | |
| P | | | |
| \PackageWarning | 14 | | |
| \PageIndex | 281 | | |
| \paperheight | 28 | | |
| \pdfbookmark | 85, 92, 106, 119, 132, 162, 183, 201 | | |
| \pdfstringdefDisableCommands | 42, 387 | | |
| \PrintDescribeMacro | 317, 318 | | |
| \PrintMacroName | 328, 329 | | |
| \ProcessOptions | 7 | | |
| \providecommand | 209, 210, 423 | | |
| \ProvidesPackage | 3 | | |
| R | | | |
| \raisebox | 181, 255 | | |
| \refname | 133 | | |
| \renewcommand | 32, 318, 329, 340, 357, 374, 390, 403 | | |
| \RequirePackage | 8, 9, 11, 15, 218 | | |
| \RerunFileCheck | 233 | | |
| S | | | |
| \scshape | 47 | | |
| \section | 67 | | |
| \settoheight | 253 | | |
| \settowidth | 341, 433 | | |
| \SortIndex | 402, 403 | | |
| \special@index | 279, 282 | | |
| \SpecialEnvIndex | 389, 390 | | |
| \SpecialUsageIndex | 356, 357 | | |
| \stepcounter | 84, 91, 105, 118, 131, 160, 200, 266 | | |
| T | | | |
| \tableofcontents | 76, 77 | | |
| \textbackslash | 45 | | |
| \thanks | 43 | | |
| \the | 154, 226, 268, 271, 289, 364, 381, 396 | | |
| \thebibliography | 127, 128 | | |
| \theCodelineNo | 339, 340 | | |
| \theglossary | 190, 191 | | |
| \theHD@unique | 32, 86, 93, 107, 120, 133, 163, 202 | | |
| \theindex | 138, 139 | | |
| \topmargin | 28 | | |
| V | | | |
| \value | 33, 426, 432 | | |
| W | | | |
| \write | 246, 422, 425 | | |