

# The hypdoc package

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## Abstract

This package adds hyper features to the package `doc` that is used in the documentation system of L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>. Bookmarks are added and references are linked as far as possible.

## Contents

<b>1</b>	<b>Features</b>	<b>2</b>
<b>2</b>	<b>Usage</b>	<b>2</b>
2.1	Options	3
2.2	Simple example	3
2.3	Example <code>source2e.tex</code>	3
<b>3</b>	<b>Implementation</b>	<b>4</b>
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>	14
<b>4</b>	<b>Installation</b>	<b>14</b>
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

<b>5 History</b>	<b>15</b>
[2002/05/10 v1.0]	15
[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]	16
<b>6 Index</b>	<b>16</b>

## 1 Features

The package adds the following features:

**Bookmarks:** For supporting bookmarks package `hyperref` is loaded. Some `TEX` code inside section titles can cause problems during bookmark processing; these can be warnings, ugly bookmark titles or even errors. With the help of `\pdfstringdefDisableCommands` or `\texorpdfstring` you can manage these things, see `hyperref`'s package documentation.

**Additional bookmarks:** Unnumbered bookmark entries are generated for:

- Table of contents
- List of figures
- List of tables
- Index
- Glossary

Option `numbered` controls, whether these section or chapters should be numbered. The exception is the table of contents if this it would be the first numbered section. Then just a bookmark is added.

**Metadata:** The loaded package `hyperref`, enforced by option `pdfusetitle`, tries to detect `\title` and `\author` and sets the corresponding PDF information fields. In case of problems see the previous item about bookmarks. These entries can be overwritten or new ones added by `\hypersetup` after the packages is loaded, see documentation of package `hyperref`.

**References, links:** Because of package `\hyperref` `\ref` become links, also `\url`, footnote referencing are supported.

**Index:** The main part of this package deals with index links in order to support the kind of index that package `doc` provides.

**Thumbnails:** Package `thumbpdf` is loaded for the case that the PDF file also should contain thumbnails, see the documentation of this package. But thumbnail embedding is not really necessary, because nowadays AcrobatReader is able to generate and view thumbnails on the fly.

## 2 Usage

The purpose of this packages is to add PDF features to the documentation of LaTeX packages. Thus just load the package in the driver file that generates the documentation:

```
\usepackage{hypdoc}
```

Package `doc` is loaded by `hypdoc`, thus you also can replace a `\usepackage{doc}` with this line. At any case, the package must be loaded before macros of package `doc` such as `\CodelineIndex` or `\PageIndex` are used.

If the class `ltxdoc` is used, you can also use the configuration file for this class to add package `hypdoc`. Add the following line to the file `ltxdoc.cfg` (or create a new one):

```
\AtEndOfClass{\RequirePackage{hypdoc}}
```

## 2.1 Options

There is one option `numbered`. It controls, whether the starred versions of section or chapter inside `\tableofcontents`, `\listoffigures`, ... should be replaced by the non-star versions.

## 2.2 Simple example

Example of a simple driver file `foobar.drv` of a package `foobar`. Often the driver file is packed in the file `foobar.dtx` and can be extracted by `docstrip` or if an instruction file for `docstrip` is provided by:

```
tex foobar.ins
```

Note that although `docstrip` doesn't rely on  $\LaTeX$ , sometimes you need to run the `.ins` file through  $\LaTeX$ . Oddly enough, often the only  $\LaTeX$  feature in use is `\NeedsTeXFormat{LaTeX2e}` in the first line.

```
\documentclass{ltxdoc}
\usepackage{hypdoc}
\RecordChanges
\EnableCrossrefs
\CodelineIndex
\begin{document}
\title{Title for package \texttt{foobar}}
\author{Author of package \texttt{foobar}}
\date{...}
\maketitle
\tableofcontents
\DocInput{foobar.dtx}
\PrintChanges
\PrintIndex
\end{document}
```

Then compile it, for example with `pdf $\LaTeX$` .

```
pdflatex foobar.drv
makeindex -s gind.ist foobar.idx
makeindex -s gglo.ist -o foobar.gls foobar.glo
pdflatex foobar.drv
```

You will need several cycles until the cross references and similar things are correct.

## 2.3 Example `source2e.tex`

The source code of the base of  $\LaTeX$  is available as a bunch of `.dtx` files.  $\LaTeX$  provides the file `source2e.tex` to merge them all together.

Now you can either load package `hypdoc` in a private copy of this file (please, respect the LPPL) or use the configuration file `ltxdoc.cfg`. Example that also sets A4 paper size:

```
\PassOptionsToClass{a4paper}{article}
\AtEndOfClass{\RequirePackage{hypdoc}}
```

Then `source2e.tex` can be compiled by `pdfTeX`, for example:

```
pdflatex source2e
makeindex -s gind.ist source2e.idx
makeindex -s gglo.ist -o source2e.glo source2e.gls
pdflatex source2e
makeindex -s gind.ist source2e.idx
makeindex -s gglo.ist -o source2e.glo source2e.gls
pdflatex source2e
```

### 3 Implementation

```
1 (*package)
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{hypdoc}%
4 [2010/02/03 v1.8 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{doc}
9 \ifx\numexpr\@undefined
10 \RequirePackage{calc}%
11 \fi
12 \RequirePackage[%
13 hyperindex=false,%
14 pdfusetitle,%
15 colorlinks,%
16 pdfpagelabels,%
17 ]{hyperref}[2002/05/09]%
18 \hypersetup{%
19 plainpages=false,%
20 bookmarksopen,%
21 bookmarksnumbered,%
22 bookmarksopenlevel=0,%
23 pdfstartview={FitBH \hypercalcbp{%
24 \paperheight-\topmargin-1in-\headheight-\headsep
25 }},%
26 }
27 \RequirePackage{thumbpdf}
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{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       {\contentsname}{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       {\contentsname}{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         {\glossaryname}{glossary\theHD@unique}%
214     \endgroup
215     \fi
216     \HDorg@glossary@prologue
217 }%
218 \HDorg@theglossary
219 }

```

\glossaryname

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

### 3.10 Index

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

\HD@helplength

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

\ifHD@savedest

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

```

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

```

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

\HD@savedest@init

```

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

```

\HD@savedest@entry

```

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

```

\HD@savedest@add

```

255 \def\HD@savedest@add#1{%
256     \immediate\write\HD@savedest@out{\string~#1}%
257 }

```

```

\ifHD@targetraise
258 \newif\ifHD@targetraise
259 \HD@targetraisetrue

\HD@target
260 \def\HD@target{%
261   \ifHD@targetraise
262     \ifhmode
263       \settoheight{\HD@helplength}{[H]}%
264       \addtolength{\HD@helplength}{0.4ex}%
265       \raisebox{\HD@helplength}{%
266         \HD@maketarget
267       }%
268     \else
269       \HD@maketarget
270     \fi
271   \else
272     \HD@maketarget
273   \fi
274 }

\HD@maketarget
275 \def\HD@maketarget{%
276   \stepcounter{HD@hypercount}%
277   \def\HD@next{%
278     \llap{\hypertarget{HD.\the\c@HD@hypercount}{\},}%
279   }%
280   \ifHD@savedest
281     \expandafter\ifx\c@HD.\the\c@HD@hypercount\endcsname\@empty
282   \else
283     \let\HD@next\relax
284   \fi
285   \fi
286   \HD@next
287 }

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

\PageIndex
291 \g@addto@macro\PageIndex{%
292   \let\special@index\HD@page@wrindex
293 }

\HD@codeline@wrindex
294 \def\HD@codeline@wrindex#1{%
295   \begingroup
296     \let\HDorg@encapchar\encapchar
297     \def\encapchar##1\encapchar##2\@nil{%
298       \HDorg@encapchar
299       hdclindex{\the\c@HD@hypercount}{##1}%
300     }%
301     \codeline@wrindex{%
302       #1\encapchar\encapchar\@nil
303     }%
304   \endgroup
305 }

```

`\HD@page@wrindex`

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

`\hdclindex`

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

`\hdpindex`

```
322 \def\hdpindex#1#2{%
323   \csname\ifx\#1\relax\else#1\fi\endcsname{%
324     \hyperpage{#2}%
325   }%
326 }
```

### 3.11 `\PrintDescribeMacro`

`\HDorg@PrintDescribeMacro`

```
327 \let\HDorg@PrintDescribeMacro\PrintDescribeMacro
```

`\PrintDescribeMacro`

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

### 3.12 `\PrintMacroName`

`\HDorg@PrintMacroName`

```
338 \let\HDorg@PrintMacroName\PrintMacroName
```

`\PrintMacroName`

```
339 \renewcommand\PrintMacroName[1]{%
340   \begingroup
341   \let\HDorg@MacroFont\MacroFont
342   \def\MacroFont{%
343     \HD@target
344     \HDorg@MacroFont
345   }%
346   \HDorg@PrintMacroName{#1}%
347 \endgroup
348 }
```

### 3.13 \theCodelineNo

\HDorg@theCodelineNo

```
349 \let\HDorg@theCodelineNo\theCodelineNo
```

\theCodelineNo

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

\HDorg@index

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

### 3.14 \SpecialUsageIndex

\HDorg@SpecialUsageIndex

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

### 3.15 \autoindex

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

\HDorg@autoindex

```
383 \let\HDorg@autoindex\autoindex
```

\autoindex

```
384 \renewcommand*\autoindex[1]{%
385   \@bsphack
386   \begingroup
387     \HD@target
388     \let\index\HDorg@index
389     \let\HDorg@encapchar\encapchar
390     \edef\encapchar usage{%
391       \HDorg@encapchar hdclindex{\the\c@HD@hypercount}{usage}%
```

```

392     }%
393     \HDorg@autoindex{#1}%
394     \endgroup
395     \@esphack
396 }%
397 \fi

```

### 3.16 \SpecialEnvIndex

\HDorg@SpecialEnvIndex

```
398 \let\HDorg@SpecialEnvIndex\SpecialEnvIndex
```

\SpecialEnvIndex

```

399 \renewcommand*\SpecialEnvIndex[1]{%
400   \@bsphack
401   \begingroup
402     \HD@target
403     \let\HDorg@encapchar\encapchar
404     \edef\encapchar usage{%
405       \HDorg@encapchar hdclindex{\the\c@HD@hypercount}{usage}%
406     }%
407     \HDorg@SpecialEnvIndex{#1}%
408   \endgroup
409   \@esphack
410 }

```

### 3.17 \SortIndex

\HDorg@SortIndex

```
411 \let\HDorg@SortIndex\SortIndex
```

\SortIndex

```

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

```

### 3.18 \@wrglossary

\HDorg@wrglossary

```
420 \let\HDorg@wrglossary\@wrglossary
```

\@wrglossary

```

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

```

### 3.19 `\MacroIndent`

`\MacroIndent` automatically calculated.

```
429 \AtEndDocument{%
430   \if@filesw
431     \immediate\write\@auxout{%
432       \noexpand\HD@SetMacroIndent{\number\value{CodelineNo}}%
433     }%
434   \fi
435 }
```

`\HD@SetMacroIndent`

```
436 \def\HD@SetMacroIndent#1{%
437   \begingroup
438     \value{CodelineNo}=#1\relax
439     \settowidth{\MacroIndent}{\HD@org@theCodelineNo\ }%
440     \global\MacroIndent\MacroIndent
441   \endgroup
442 }
443 </package>
```

## 4 Installation

### 4.1 Download

**Package.** This package is available on CTAN<sup>1</sup>:

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

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

**Bundle.** All the packages of the bundle ‘oberdiek’ are also available in a TDS compliant ZIP archive. There the packages are already unpacked and the documentation files are generated. The files and directories obey the TDS standard.

[CTAN:install/macros/latex/contrib/oberdiek.tds.zip](#)

*TDS* refers to the standard “A Directory Structure for  $\TeX$  Files” ([CTAN:tds/tds.pdf](#)). Directories with `texmf` in their name are usually organized this way.

### 4.2 Bundle installation

**Unpacking.** Unpack the `oberdiek.tds.zip` in the TDS tree (also known as `texmf` tree) of your choice. Example (linux):

```
unzip oberdiek.tds.zip -d ~/texmf
```

**Script installation.** Check the directory `TDS:scripts/oberdiek/` for scripts that need further installation steps. Package `attachfile2` comes with the Perl script `pdfatfi.pl` that should be installed in such a way that it can be called as `pdfatfi`. Example (linux):

```
chmod +x scripts/oberdiek/pdfatfi.pl
cp scripts/oberdiek/pdfatfi.pl /usr/local/bin/
```

### 4.3 Package installation

**Unpacking.** The `.dtx` file is a self-extracting docstrip archive. The files are extracted by running the `.dtx` through plain- $\TeX$ :

```
tex hypdoc.dtx
```

---

<sup>1</sup><http://ftp.ctan.org/tex-archive/>

**TDS.** Now the different files must be moved into the different directories in your installation TDS tree (also known as `texmf` tree):

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

If you have a `docstrip.cfg` that configures and enables `docstrip`'s TDS installing feature, then some files can already be in the right place, see the documentation of `docstrip`.

#### 4.4 Refresh file name databases

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

#### 4.5 Some details for the interested

**Attached source.** The PDF documentation on CTAN also includes the `.dtx` source file. It can be extracted by AcrobatReader 6 or higher. Another option is `pdftk`, e.g. unpack the file into the current directory:

```
pdftk hypdoc.pdf unpack_files output .
```

**Unpacking with  $\LaTeX$ .** The `.dtx` chooses its action depending on the format:

**plain- $\TeX$ :** Run `docstrip` and extract the files.

**$\LaTeX$ :** Generate the documentation.

If you insist on using  $\LaTeX$  for `docstrip` (really, `docstrip` does not need  $\LaTeX$ ), then inform the autodetect routine about your intention:

```
latex \let\install=y\input{hypdoc.dtx}
```

Do not forget to quote the argument according to the demands of your shell.

**Generating the documentation.** You can use both the `.dtx` or the `.drv` to generate the documentation. The process can be configured by the configuration file `ltxdoc.cfg`. For instance, put this line into this file, if you want to have A4 as paper format:

```
\PassOptionsToClass{a4paper}{article}
```

An example follows how to generate the documentation with pdf $\LaTeX$ :

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

## 5 History

[2002/05/10 v1.0]

- First standalone version.

### [2006/02/20 v1.1]

- Option `numbered` added.
- `\HD@savedest@init` fixed (empty `.hd` file triggered first page with fl ligature).
- Bookmarks for `\listoffigures` and `\listoftables`.
- Documentation: features and usage added.
- LPPL 1.3.

### [2006/04/27 v1.2]

- `\HD@target` fixed (`multicol.dtx`).

### [2006/06/01 v1.3]

- Support for package `amsdtx`'s `\autoindex` added.

### [2006/06/02 v1.4]

- Bookmark fixed if there are several table of contents, bibliographies, glossaries, ...

### [2007/04/11 v1.5]

- Line ends sanitized.

### [2007/11/12 v1.6]

- Bug fix in `\listoffigures` (Axel Sommerfeldt).
- Markup added in implementation section.

### [2009/12/10 v1.7]

- Use of package `rerunfilecheck`.

### [2010/02/03 v1.8]

- Fix for bug `latex/4096` added.

## 6 Index

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

Symbols		
<code>\*</code>	.....	<i>58</i>
<code>\+</code>	.....	<i>55</i>
<code>\,</code>	.....	<i>278</i>
<code>\-</code>	.....	<i>54</i>
<code>\:</code>	.....	<i>56</i>
<code>\=</code>	.....	<i>57</i>
<code>\@auxout</code>	.....	<i>431</i>
<code>\@bsphack</code>	.....	<i>368, 385, 400, 413</i>
<code>\@empty</code>	.....	<i>34, 43, 44, 81, 84, 281</i>
<code>\@esphack</code>	.....	<i>378, 395, 409, 418</i>
<code>\@firstofone</code>	.....	<i>231</i>
<code>\@gobble</code>	.....	<i>40, 41, 81, 84, 248</i>
<code>\@ifstar</code>	.....	<i>73</i>
<code>\@ifundefined</code>	.....	<i>33, 81, 90, 144</i>
<code>\@namedef</code>	.....	<i>72, 252</i>
<code>\@nameuse</code>	.....	<i>73, 84</i>
<code>\@nil</code>	.....	<i>297, 302, 309, 313, 423, 427</i>
<code>\@pdfsubject</code>	.....	<i>34</i>
<code>\@undefined</code>	.....	<i>9</i>
<code>\@wrglossary</code>	.....	<i>420, <u>421</u></i>
<code>\@</code>	.....	<i>190, 317, 323</i>



\^	230, 236, 237, 241	\HD@hfil	182, 185
\_	351, 439	\HD@maketarget	266, 269, 272, 275
<b>A</b>			
\active	230, 237	\HD@margin	193, 195, 200
\addtolength	264, 353	\HD@ModFix	50, 54, 55, 56, 57, 58
\advance	164	\HD@next	277, 283, 286
\and	45	\HD@numberedtrue	6
\AtBeginDocument	225, 363	\HD@page@wrindex	292, 306, 415
\AtEndDocument	429	\HD@savedest@add	248, 255, 319
\autoindex	383, 384	\HD@savedest@entry	235, 251
<b>B</b>			
\baselineskip	192	\HD@savedest@init	226, 229
\bfseries	159, 181	\HD@savedest@out	242, 244, 246, 256
\bibname	144	\HD@savedesttrue	224
<b>C</b>			
\c@HD@hypercount	278, 281, 299, 374, 391, 405	\HD@sectionpatch	61, 107, 121, 134, 146, 153, 205
\c@section	91, 94	\HD@SetMacroIndent	432, 436
\catcode	230, 236, 237, 241	\HD@target	260, 332, 343, 355, 359, 370, 387, 402
\closeout	244	\HD@targetraisetrue	259
\codeline@wrindex	301	\HD@toclevel@index	161, 163, 173
\CodelineIndex	288	\HD@toclevel@subindex	165, 194
\contentsname	97, 104, 118, 131	\hdclindex	316
\count@	163, 164, 165	\HDorg@autoindex	383, 393
\cs	42	\HDorg@bfseries	181, 184
\csname	48, 70, 71, 281, 317, 323, 381	\HDorg@catcodeM	236, 241
<b>D</b>			
\DeclareOption	6	\HDorg@encapchar	296, 298, 308, 310, 372, 374, 389, 391, 403, 405, 422, 424
<b>E</b>			
\encapchar	296, 297, 302, 308, 309, 313, 372, 373, 389, 390, 403, 404, 422, 423, 427	\HDorg@glossary@prologue	203, 212, 216
\endcsname	48, 70, 71, 281, 317, 323, 381	\HDorg@index	313, 363, 371, 388
<b>F</b>			
\fileinfo	35	\HDorg@index@prologue	151, 177
\footnote	41	\HDorg@listoffigures	112, 117, 122
\futurelet	182	\HDorg@listoftables	125, 130, 135
<b>G</b>			
\g@addto@macro	32, 53, 154, 288, 291	\HDorg@MacroFont	330, 333, 341, 344
\glossary@prologue	203, 206	\HDorg@PrintDescribeMacro	327, 335
\glossaryname	213, 220	\HDorg@PrintMacroName	338, 346
<b>H</b>			
\HD@@@bfseries	186, 189	\HDorg@SortIndex	411, 416
\HD@bfseries	182, 183	\HDorg@SpecialEnvIndex	398, 407
\HD@guesstoclevel	78, 80	\HDorg@SpecialUsageIndex	366
\HD@sectionpatch	63, 64, 69	\HDorg@tableofcontents	87, 96, 98, 103, 108
\HD@bfseries	159, 182	\HDorg@thebibliography	138, 143, 147
\HD@codeline@wrindex	289, 294	\HDorg@theCodelineNo	349, 351, 361, 439
\HD@disable@writebookmark	66, 76	\HDorg@theglossary	201, 218
\HD@end	78, 80	\HDorg@theindex	149, 179
\HD@guesstoclevel	77, 96, 103, 117, 130, 143, 161, 212	\HDorg@tilde	234, 240
\HD@helplength	222, 263, 264, 265, 351, 352, 353, 356	\HDorg@wrglossary	420, 427
		\HDorg@writebookmark	152, 157, 172, 204, 210
		\hdpindex	322
		\headheight	24
		\headsep	24
		\hfil	185, 189, 198
		\hspace	356
		\Hy@UseMaketitleInfos	32
		\Hy@writebookmark	66, 152, 157, 172, 204, 210
		\hypercalcbp	23
		\hyperlink	318
		\hyperpage	324
		\hypersetup	18, 35
		\hypertarget	278

<b>I</b>		<b>R</b>	
<code>\if@files</code>	430	<code>\paperheight</code>	24
<code>\ifcase</code>	94	<code>\pdfbookmark</code>	96, 103, 117, 130, 143, 173, 194, 212
<code>\ifdim</code>	352	<code>\pdfstringdefDisableCommands</code>	39
<code>\ifHD@numbered</code>	5, 62, 100, 114, 127, 140, 155, 168, 207	<code>\PrintDescribeMacro</code>	327, 328
<code>\ifHD@savedest</code>	223, 233, 280	<code>\PrintMacroName</code>	338, 339
<code>\ifHD@targetraise</code>	258, 261	<code>\ProcessOptions</code>	7
<code>\ifhmode</code>	262	<code>\providecommand</code>	220
<code>\ifx</code>	9, 34, 48, 185, 190, 281, 317, 323, 381	<code>\ProvidesPackage</code>	3
<code>\immediate</code>	244, 246, 256, 431	<b>R</b>	
<code>\index</code>	364, 371, 388, 415	<code>\raisebox</code>	192, 265
<code>\index@prologue</code>	151, 161, 167	<code>\refname</code>	144
<code>\indexname</code>	174	<code>\renewcommand</code>	29, 328, 339, 350, 367, 384, 399, 412
<code>\IndexParms</code>	154	<code>\RequirePackage</code>	8, 10, 12, 27, 228
<code>\InputIfFileExists</code>	239	<code>\RerunFileCheck</code>	243
<b>J</b>		<b>S</b>	
<code>\jobname</code>	239, 243, 246	<code>\scshape</code>	44
<b>K</b>		<code>\section</code>	78
<code>\kern</code>	193, 195	<code>\settoheight</code>	263
<b>L</b>		<code>\settowidth</code>	351, 439
<code>\listoffigures</code>	112, 113	<code>\SortIndex</code>	411, 412
<code>\listoftables</code>	125, 126	<code>\special@index</code>	289, 292
<code>\llap</code>	278, 354	<code>\SpecialEnvIndex</code>	398, 399
<b>M</b>		<code>\SpecialUsageIndex</code>	366, 367
<code>\MacroFont</code>	330, 331, 341, 342	<code>\stepcounter</code>	95, 102, 116, 129, 142, 171, 211, 276
<code>\MacroIndent</code>	352, 353, 439, 440	<b>T</b>	
<code>\mathcode</code>	51	<code>\tableofcontents</code>	87, 88
<code>\mod@math@codes</code>	53	<code>\textbackslash</code>	42
<b>N</b>		<code>\thanks</code>	40
<code>\NeedsTeXFormat</code>	2	<code>\the</code>	165, 236, 278, 281, 299, 374, 391, 405
<code>\newcounter</code>	28, 221	<code>\thebibliography</code>	138, 139
<code>\newif</code>	5, 223, 258	<code>\theCodelineNo</code>	349, 350
<code>\newlength</code>	222	<code>\theglossary</code>	201, 202
<code>\newwrite</code>	242	<code>\theHD@unique</code>	29, 97, 104, 118, 131, 144, 174, 213
<code>\normalfont</code>	43	<code>\theindex</code>	149, 150
<code>\number</code>	30, 432	<code>\topmargin</code>	24
<code>\numexpr</code>	9	<b>V</b>	
<b>O</b>		<code>\value</code>	30, 432, 438
<code>\openout</code>	246	<b>W</b>	
<b>P</b>		<code>\write</code>	256, 431
<code>\PageIndex</code>	291		