

The holtxdoc package

Heiko Oberdiek
<oberdiek@uni-freiburg.de>

2009/12/02 v0.13

Abstract

The package is used for the documentation of my packages in DTX format. It contains some private macros and setup for my needs. Thus do not use it. I have separated the part that may be useful for others in package hypdoc.

Contents

1	No usage	2
2	Implementation	2
2.1	Help macros	2
2.2	History	2
2.3	Formatting macros	3
2.4	Names	4
2.5	Setup	5
2.5.1	Package doc	5
2.5.2	Page layout	5
3	Installation	5
3.1	Download	5
3.2	Bundle installation	5
3.3	Package installation	6
3.4	Refresh file name databases	6
3.5	Some details for the interested	6
4	History	6
[1999/06/26 v0.3]		6
[2000/08/14 v0.4]		7
[2001/08/27 v0.5]		7
[2001/09/02 v0.6]		7
[2006/06/02 v0.7]		7
[2007/10/21 v0.8]		7
[2007/11/11 v0.9]		7
[2007/12/12 v0.10]		7
[2008/08/11 v0.11]		7
[2009/08/07 v0.12]		7
[2009/12/02 v0.13]		7
5	Index	7

1 No usage

Caution: *This package is not intended for public use!*

It contains the macros and settings to generate the documentation of my packages in [CTAN:macros/latex/contrib/oberdiek/](#). Thus the package does not know anything about compatibility. Only my current packages' documentation must compile.

Older versions were more interesting, because they contained code to add hyperref's features to L^AT_EX's doc system, e.g. bookmarks and index links. I separated this stuff and made a new package hypdoc.

2 Implementation

```
1 \<package>
```

Package identification.

```
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{holtxdoc}%
4   [2009/12/02 v0.13 Private additional ltxdoc support (H0)]
5 \RequirePackage[numbered]{hypdoc}
6 \RequirePackage{array}
```

2.1 Help macros

```
7 \def\hld@info#1{%
8   \PackageInfo{holtxdoc}{#1\@gobble}%
9 }
10 \def\hld@warn#1{%
11   \PackageWarningNoLine{holtxdoc}{#1}%
12 }
```

2.2 History

```
13 \newcommand*\StartHistory{%
14   \section{History}%
15 }
16 \@ifpackagelater{hyperref}{2009/11/27}{%
17   \newcommand*\HistVersion[1]{%
18     \subsection*{[#1]}% hash-ok
19     \addcontentsline{toc}{subsection}{[#1]}% hash-ok
20     \def\HistLabel##1{%
21       \begingroup
22         \edef\@currentlabel{[#1]}% hash-ok
23         \label{##1}%
24       \endgroup
25     }%
26   }%
27 }{%
28   \newcommand*\HistVersion[1]{%
29     \subsection*{%
30       \phantomsection
31       \addcontentsline{toc}{subsection}{[#1]}% hash-ok
32       [#1]% hash-ok
33     }%
34     \def\HistLabel##1{%
35       \begingroup
36         \edef\@currentlabel{[#1]}% hash-ok
37         \label{##1}%
38       \endgroup
39     }%
40   }%
41 }
42 \newenvironment{History}{%
```

```

43 \StartHistory
44 \def\Version##1{%
45   \HistVersion{##1}%
46   \itemize
47 }%
48 \let\endVersion\enditemize
49 }{}

```

2.3 Formatting macros

```

\UrlFoot
#1: text
#2: url

50 \newcommand{\URL}[2]{%
51   \begingroup
52   \def\link{\href{#2}}%
53   #1%
54   \endgroup
55   \footnote{Url: \url{#2}}%
56 }

\NameEmail
#1: name
#2: email address

57 \newcommand*\NameEmail[2]{%
58   \expandafter\hld@NameEmail\expandafter{#2}{#1}%
59 }
60 \def\hld@NameEmail#1#2{%
61   \expandafter\hld@@NameEmail\expandafter{#2}{#1}%
62 }
63 \def\hld@@NameEmail#1#2{%
64   \ifx\\#1#2\\%
65     \hld@warn{%
66       Command \string\NameEmail\space without name and email%
67     }%
68   \else
69     \ifx\\#1\\%
70       \href{mailto:#2}{\nolinkurl{#2}}%
71     \else
72       #1%
73       \ifx\\#2\\%
74       \else
75         \footnote{%
76           #1's email address: %
77           \href{mailto:#2}{\nolinkurl{#2}}%
78         }%
79       \fi
80     \fi
81   \fi
82 }

83 \newcommand*\Package[1]{\texttt{#1}}
84 \newcommand*\File[1]{\texttt{#1}}
85 \newcommand*\Verb[1]{\texttt{#1}}
86 \newcommand*\CS[1]{\texttt{\expandafter\@gobble\string\#1}}

87 \newcommand*\CTAN[1]{%
88   \href{ftp://ftp.ctan.org/tex-archive/#1}{\nolinkurl{CTAN:#1}}%
89 }

90 \newcommand*\Newsgroup[1]{%
91   \href{http://groups.google.com/group/#1/topics}{\nolinkurl{news:#1}}%
92 }

93 \newcommand*\xpackage[1]{\textsf{#1}}

```

```

94 \newcommand*{\xmodule}[1]{\textsf{#1}}
95 \newcommand*{\xclass}[1]{\textsf{#1}}
96 \newcommand*{\xoption}[1]{\textsf{#1}}
97 \newcommand*{\xfile}[1]{\texttt{#1}}
98 \newcommand*{\xext}[1]{\texttt{.#1}}
99 \newcommand*{\xemail}[1]{%
100   \textless\texttt{#1}\textgreater%
101 }
102 \newcommand*{\xnewsgroup}[1]{%
103   \href{news:#1}{\nolinkurl{#1}}%
104 }

```

The following environment declcs is derived from environment decl of ltxguide.cls:

```

105 \newenvironment{declcs}[1]{%
106   \par
107   \addvspace{4.5ex plus 1ex}%
108   \vskip -\parskip
109   \noindent
110   \hspace{-\leftmargini}%
111   \def\M##1{\texttt{\{}\meta{##1}\texttt{\}}}%
112   \def\*{\unskip\,\texttt{*}}%
113   \begin{tabular}{|l|}%
114     \hline
115     \expandafter\SpecialUsageIndex\csname #1\endcsname
116     \cs{#1}%
117   }{%
118     \\%
119     \hline
120   \end{tabular}%
121   \nobreak
122   \par
123   \nobreak
124   \vspace{2.3ex}%
125   \vskip -\parskip
126   \noindent
127   \ignorespacesafterend
128 }

```

2.4 Names

```

129 \providecommand*{\eTeX}{\mbox{$\varepsilon$-TeX}}
130 \providecommand*{\pdfTeX}{pdfTeX}
131 \providecommand*{\pdfLaTeX}{pdfLaTeX}
132 \providecommand*{\LuaTeX}{L\textsc{ua}TeX}
133 \def\@temp#1#2{%
134   \providecommand*{#1}{%
135     \begingroup
136     X%
137     \@ifundefined{rotatebox}{e}{%
138       \lower0.5ex\hbox{%
139         \setbox0=\hbox{E}%
140         \dimen0=\ht0 %
141         \advance\dimen0 by \dp0 %
142         \raise\dimen0\hbox{\rotatebox{180}{\box0}}}%
143       }%
144     }%
145     #2%
146   \endgroup
147 }%
148 }
149 \@tempXeTeXTeX
150 \@tempXeLaTeXLaTeX

```

```

151 \providecommand*{\teTeX}{teTeX}
152 \providecommand*{\mikTeX}{mikTeX}
153 \providecommand*{\MakeIndex}{\textsl{MakeIndex}}
154 \providecommand*{\docstrip}{\textsf{docstrip}}
155 \providecommand*{\plainTeX}{\mbox{plain-TeX}}
156 \providecommand*{\iniTeX}{\mbox{ini-TeX}}
157 \providecommand*{\VTeX}{VTeX}

```

2.5 Setup

2.5.1 Package doc

```

158 \CodelineIndex
159 \EnableCrossrefs
160 \setcounter{IndexColumns}{2}

161 \DoNotIndex{\begingroup,\endgroup,\bgroup,\egroup}
162 \DoNotIndex{\def,\edef,\xdef,\global,\long,\let}
163 \DoNotIndex{\expandafter,\noexpand,\string}
164 \DoNotIndex{\else,\fi,\or}
165 \DoNotIndex{\relax}

```

2.5.2 Page layout

```

166 \addtolength{\textheight}{\headheight}
167 \addtolength{\textheight}{\headsep}
168 \setlength{\headheight}{0pt}
169 \setlength{\headsep}{0pt}

170 \addtolength{\topmargin}{-10mm}
171 \addtolength{\textheight}{20mm}
172 \end{package}

```

3 Installation

3.1 Download

Package. This package is available on CTAN¹:

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

[CTAN:macros/latex/contrib/oberdiek/holtxdoc.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.

3.2 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/
```

¹<http://ftp.ctan.org/tex-archive/>

3.3 Package installation

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

```
tex holtxdoc.dtx
```

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

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

3.4 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`.

3.5 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 holtxdoc.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{holtxdoc.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 holtxdoc.dtx
makeindex -s gind.ist holtxdoc.idx
pdflatex holtxdoc.dtx
makeindex -s gind.ist holtxdoc.idx
pdflatex holtxdoc.dtx
```

4 History

[1999/06/26 v0.3]

- ...

[2000/08/14 v0.4]

- ...

[2001/08/27 v0.5]

- ...

[2001/09/02 v0.6]

- ...

[2006/06/02 v0.7]

- Major change: most is put into a new package `hypdoc`.

[2007/10/21 v0.8]

- `\XeTeX` and `\XeLaTeX` added.

[2007/11/11 v0.9]

- `\LuaTeX` added.

[2007/12/12 v0.10]

- `\iniTeX` added.

[2008/08/11 v0.11]

- `\Newsgroup`, `\xnewsgroup`, and `\URL` updated.

[2009/08/07 v0.12]

- `\xmodule` added.

[2009/12/02 v0.13]

- Anchor hack for unnumbered subsections is removed for `hyperref` \geq 2009/11/27 6.79k.

5 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		A	
<code>*</code>	112	<code>\addcontentsline</code>	19, 31
<code>\,</code>	112	<code>\addtolength</code>	166, 167, 170, 171
<code>\@currentlabel</code>	22, 36	<code>\addvspace</code>	107
<code>\@gobble</code>	8, 86	<code>\advance</code>	141
<code>\@ifpackagelater</code>	16	B	
<code>\@ifundefined</code>	137	<code>\begin</code>	113
<code>\@temp</code>	133, 149, 150	<code>\box</code>	142
<code>\</code>	64, 69, 73, 86, 118	C	
<code>\{</code>	111	<code>\CodelineIndex</code>	158
<code>\}</code>	111	<code>\CS</code>	86

\cs	116	\newenvironment	42, 105
\csname	115	\Newsgroup	90
\CTAN	87	\nobreak	121, 123
D		\noindent	109, 126
\dimen	140, 141, 142	\nolinkurl	70, 77, 88, 91, 103
\docstrip	154	P	
\DoNotIndex	161, 162, 163, 164, 165	\Package	83
\dp	141	\PackageInfo	8
E		\PackageWarningNoLine	11
\EnableCrossrefs	159	\par	106, 122
\end	120	\parskip	108, 125
\endcsname	115	\pdfLaTeX	131
\endditemize	48	\pdfTeX	130
\endVersion	48	\phantomsection	30
\eTeX	129	\plainTeX	155
F		\providecommand	129, 130, 131, 132, 134, 151, 152, 153, 154, 155, 156, 157
\File	84	\ProvidesPackage	3
\footnote	55, 75	R	
H		\raise	142
\hbox	138, 139, 142	\RequirePackage	5, 6
\headheight	166, 168	\rotatebox	142
\headsep	167, 169	S	
\HistLabel	20, 34	\section	14
\HistVersion	17, 28, 45	\setbox	139
\hld@NameEmail	61, 63	\setcounter	160
\hld@info	7	\setlength	168, 169
\hld@NameEmail	58, 60	\space	66
\hld@warn	10, 65	\SpecialUsageIndex	115
\hline	114, 119	\StartHistory	13, 43
\href	52, 70, 77, 88, 91, 103	\subsection	18, 29
\hspace	110	T	
\ht	140	\teTeX	151
I		\TeX	129, 130, 132, 149, 151, 152, 155, 156, 157
\ifx	64, 69, 73	\textgreater	100
\ignorespacesafterend	127	\textheight	166, 167, 171
\iniTeX	156	\textless	100
\itemize	46	\textsc	132
L		\textsf	93, 94, 95, 96, 154
\label	23, 37	\textsl	153
\LaTeX	131, 150	\texttt	83, 84, 85, 86, 97, 98, 100, 111, 112
\leftmargini	110	\topmargin	170
\link	52	U	
\lower	138	\unskip	112
\LuaTeX	132	\URL	50
M		\url	55
\M	111	V	
\MakeIndex	153	\varepsilon	129
\mbox	129, 155, 156	\Verb	85
\meta	111	\Version	44
\miktex	152	\vskip	108, 125
N		\vspace	124
\NameEmail	57, 66	\VTeX	157
\NeedsTeXFormat	2		
\newcommand	13, 17, 28, 50, 57, 83, 84, 85, 86, 87, 90, 93, 94, 95, 96, 97, 98, 99, 102		

	X		
\xclass	95	\xfile	97
\XeLaTeX	150	\xmodule	94
\xemail	99	\xnewsgroup	102
\XeTeX	149	\xoption	96
\xext	98	\xpackage	93