

The holtxdoc package

Heiko Oberdiek
<oberdiek@uni-freiburg.de>

2007/12/12 v0.10

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	1
2	Implementation	2
2.1	Help macros	2
2.2	History	2
2.3	Formatting macros	2
2.4	Names	4
2.5	Setup	4
2.5.1	Package doc	4
2.5.2	Page layout	4
3	Installation	5
3.1	Download	5
3.2	Bundle installation	5
3.3	Package installation	5
3.4	Refresh file name databases	5
3.5	Some details for the interested	6
4	History	6
	[1999/06/26 v0.3]	6
	[2000/08/14 v0.4]	6
	[2001/08/27 v0.5]	6
	[2001/09/02 v0.6]	6
	[2006/06/02 v0.7]	6
	[2007/10/21 v0.8]	6
	[2007/11/11 v0.9]	7
	[2007/12/12 v0.10]	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   [2007/12/12 v0.10 Private additional ltxdoc support (HO)]
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 \newcommand*\HistVersion[1]{%
17   \subsection*{%
18     \phantomsection
19     \addcontentsline{toc}{subsection}{[#1]}% hash-ok
20     [#1]% hash-ok
21   }%
22   \def\HistLabel##1{%
23     \begingroup
24       \edef\x{[#1]}% hash-ok
25       \let\@currentlabel\x
26       \label{##1}%
27     \endgroup
28   }%
29 }
30 \newenvironment{History}{%
31   \StartHistory
32   \def\Version##1{%
33     \HistVersion{##1}%
34     \itemize
35   }%
36   \let\endVersion\enditemize
37 }{}

```

2.3 Formatting macros

```

\UrlFoot
#1: text
#2: url
38 \newcommand{\URL}[2]{%
39   #1\footnote{Url: \url{#2}}%
40 }
\NameEmail
#1: name
#2: email address

```

```

41 \newcommand*{\NameEmail}[2]{%
42   \expandafter\hld@NameEmail\expandafter{#2}{#1}%
43 }
44 \def\hld@NameEmail#1#2{%
45   \expandafter\hld@@NameEmail\expandafter{#2}{#1}%
46 }
47 \def\hld@@NameEmail#1#2{%
48   \ifx\#1#2\%
49     \hld@warn{%
50       Command \string\NameEmail\space without name and email%
51     }%
52   \else
53     \ifx\#1\%
54       \href{mailto:#2}{\nolinkurl{#2}}%
55     \else
56       #1%
57     \ifx\#2\%
58     \else
59       \footnote{%
60         #1's email address: %
61         \href{mailto:#2}{\nolinkurl{#2}}%
62       }%
63     \fi
64   \fi
65 \fi
66 }

67 \newcommand*{\Package}[1]{\texttt{#1}}
68 \newcommand*{\File}[1]{\texttt{#1}}
69 \newcommand*{\Verb}[1]{\texttt{#1}}
70 \newcommand*{\CS}[1]{\texttt{\expandafter\@gobble\string\#1}}

71 \newcommand*{\CTAN}[1]{%
72   \href{ftp://ftp.ctan.org/tex-archive/#1}{\nolinkurl{CTAN:#1}}%
73 }

74 \newcommand*{\Newsgroup}[1]{%
75   \href{http://groups.google.com/group/#1}{\nolinkurl{news:#1}}%
76 }

77 \newcommand*{\xpackage}[1]{\textsf{#1}}
78 \newcommand*{\xclass}[1]{\textsf{#1}}
79 \newcommand*{\xoption}[1]{\textsf{#1}}
80 \newcommand*{\xfile}[1]{\texttt{#1}}
81 \newcommand*{\xext}[1]{\texttt{.#1}}
82 \newcommand*{\xemail}[1]{%
83   \textless\texttt{#1}\textgreater%
84 }
85 \newcommand*{\xnewsgroup}[1]{\texttt{#1}}

```

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

```

86 \newenvironment{declcs}[1]{%
87   \par
88   \addvspace{4.5ex plus 1ex}%
89   \vskip -\parskip
90   \noindent
91   \hspace{-\leftmargin}%
92   \def\M##1{\texttt{\{}\meta{##1}\texttt{\}}}%
93   \def\*{\unskip\,\texttt{*}}%
94   \begin{tabular}{|l|}%
95     \hline
96     \expandafter\SpecialUsageIndex\csname #1\endcsname
97     \cs{#1}%
98 }{%

```

```

99      \\\%
100     \hline
101     \end{tabular}%
102     \nobreak
103     \par
104     \nobreak
105     \vspace{2.3ex}%
106     \vskip -\parskip
107     \noindent
108     \ignorespacesafterend
109 }

```

2.4 Names

```

110 \providecommand*\eTeX{\mbox{$\varepsilon$-TeX}}
111 \providecommand*\pdfTeX{\pdfTeX}
112 \providecommand*\pdfLaTeX{\pdfLaTeX}
113 \providecommand*\LuaTeX{L\textsc{ua}TeX}
114 \def\@temp#1#2{%
115     \providecommand*{#1}{%
116         \begingroup
117             X%
118             \@ifundefined{rotatebox}{e}{%
119                 \lower0.5ex\hbox{%
120                     \setbox0=\hbox{E}%
121                     \dimen0=\ht0 %
122                     \advance\dimen0 by \dp0 %
123                     \raise\dimen0\hbox{\rotatebox{180}{\box0}}}%
124             }%
125         }%
126         #2%
127     \endgroup
128 }%
129 }
130 \@tempXeTeXTeX
131 \@tempXeLaTeXLaTeX
132 \providecommand*\teTeX{teTeX}
133 \providecommand*\mikTeX{mikTeX}
134 \providecommand*\MakeIndex{\textsl{MakeIndex}}
135 \providecommand*\docstrip{\textsf{docstrip}}
136 \providecommand*\plainTeX{\mbox{plain-TeX}}
137 \providecommand*\iniTeX{\mbox{ini-TeX}}
138 \providecommand*\VTeX{VTeX}

```

2.5 Setup

2.5.1 Package doc

```

139 \CodelineIndex
140 \EnableCrossrefs
141 \setcounter{IndexColumns}{2}

142 \DoNotIndex{\begingroup,\endgroup,\bgroup,\egroup}
143 \DoNotIndex{\def,\edef,\xdef,\global,\long,\let}
144 \DoNotIndex{\expandafter,\noexpand,\string}
145 \DoNotIndex{\else,\fi,\or}
146 \DoNotIndex{\relax}

```

2.5.2 Page layout

```

147 \addtolength{\textheight}{\headheight}
148 \addtolength{\textheight}{\headsep}
149 \setlength{\headheight}{0pt}
150 \setlength{\headsep}{0pt}
151 \addtolength{\topmargin}{-10mm}

```

```
152 \addtolength{\textheight}{20mm}
153 \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/
```

3.3 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 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 T_EX distribution (teT_EX, miK_TE_X, ...) relies on file name databases, you must refresh these. For example, teT_EX users run `texhash` or `mktextlsr`.

¹<ftp://ftp.ctan.org/tex-archive/>

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.

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		\headheight	147, 149
*	93	\headsep	148, 150
\,	93	\HistLabel	22
\@currentlabel	25	\HistVersion	16, 33
\@gobble	8, 70	\hld@@NameEmail	45, 47
\@ifundefined	118	\hld@info	7
\@temp	114, 130, 131	\hld@NameEmail	42, 44
\%	48, 53, 57, 70, 99	\hld@warn	10, 49
\{	92	\hline	95, 100
\}	92	\href	54, 61, 72, 75
		\hspace	91
A		\ht	121
\addcontentsline	19		
\addtolength	147, 148, 151, 152	I	
\addvspace	88	\ifx	48, 53, 57
\advance	122	\ignorespacesafterend	108
		\iniTeX	137
B		\itemize	34
\begin	94		
\box	123	L	
		\label	26
C		\LaTeX	112, 131
\CodelineIndex	139	\leftmargini	91
\CS	70	\lower	119
\cs	97	\LuaTeX	113
\csname	96		
\CTAN	71	M	
		\M	92
D		\MakeIndex	134
\dimen	121, 122, 123	\mbox	110, 136, 137
\docstrip	135	\meta	92
\DoNotIndex	142, 143, 144, 145, 146	\miktex	133
\dp	122		
		N	
E		\NameEmail	41, 50
\EnableCrossrefs	140	\NeedsTeXFormat	2
\end	101	\newcommand 13, 16, 38, 41, 67, 68, 69,	
\endcsname	96	70, 71, 74, 77, 78, 79, 80, 81, 82, 85	
\enditemize	36	\newenvironment	30, 86
\endVersion	36	\Newsgroup	74
\eTeX	110	\nobreak	102, 104
		\noindent	90, 107
F		\nolinkurl	54, 61, 72, 75
\File	68		
\footnote	39, 59	P	
		\Package	67
H		\PackageInfo	8
\hbox	119, 120, 123	\PackageWarningNoLine	11

