

The holtxdoc package

Heiko Oberdiek
<oberdiek@uni-freiburg.de>

2009/08/07 v0.12

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	2
2.4	Names	4
2.5	Setup	4
2.5.1	Package doc	4
2.5.2	Page layout	5
3	Installation	5
3.1	Download	5
3.2	Bundle installation	5
3.3	Package installation	5
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]		6
[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
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 [2009/08/07 v0.12 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   \begingroup
40     \def\link{\href{#2}}%
41     #1%
42   \endgroup
43   \footnote{Url: \url{#2}}%
44 }

\NameEmail
#1: name
#2: email address

45 \newcommand*\NameEmail[2]{%
46   \expandafter\hld@NameEmail\expandafter{#2}{#1}%
47 }
48 \def\hld@NameEmail#1#2{%
49   \expandafter\hld@@NameEmail\expandafter{#2}{#1}%
50 }
51 \def\hld@@NameEmail#1#2{%
52   \ifx\\#1#2\\%
53     \hld@warn{%
54       Command \string\NameEmail\space without name and email%
55     }%
56   \else
57     \ifx\\#1\\%
58       \href{mailto:#2}{\nolinkurl{#2}}%
59     \else
60       #1%
61     \ifx\\#2\\%
62     \else
63       \footnote{%
64         #1's email address: %
65         \href{mailto:#2}{\nolinkurl{#2}}%
66       }%
67     \fi
68   \fi
69   \fi
70 }

71 \newcommand*\Package[1]{\texttt{#1}}
72 \newcommand*\File[1]{\texttt{#1}}
73 \newcommand*\Verb[1]{\texttt{#1}}
74 \newcommand*\CS[1]{\texttt{\expandafter\@gobble\string\#1}}
75 \newcommand*\CTAN[1]{%
76   \href{ftp://ftp.ctan.org/tex-archive/#1}{\nolinkurl{CTAN:#1}}%
77 }

78 \newcommand*\Newsgroup[1]{%
79   \href{http://groups.google.com/group/#1/topics}{\nolinkurl{news:#1}}%
80 }

81 \newcommand*\xpackage[1]{\textsf{#1}}
82 \newcommand*\xmodule[1]{\textsf{#1}}
83 \newcommand*\xclass[1]{\textsf{#1}}
84 \newcommand*\xoption[1]{\textsf{#1}}
85 \newcommand*\xfile[1]{\texttt{#1}}
86 \newcommand*\xext[1]{\texttt{.#1}}
87 \newcommand*\xemail[1]{%
88   \textless\texttt{#1}\textgreater%
89 }
90 \newcommand*\xnewsgroup[1]{%
91   \href{news:#1}{\nolinkurl{#1}}%
92 }

```

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

```

93 \newenvironment{declcs}[1]{%
94   \par
95   \addvspace{4.5ex plus 1ex}%
96   \vskip -\parskip
97   \noindent
98   \hspace{-\leftmargini}%
99   \def\M##1{\texttt{\{}\meta{##1}\texttt{\}}}%
100  \def\*{\unskip\,\texttt{*}}%
101  \begin{tabular}{|l|}%
102    \hline
103    \expandafter\SpecialUsageIndex\csname #1\endcsname
104    \cs{#1}%
105  }{%
106    \\%
107    \hline
108  \end{tabular}%
109  \nobreak
110  \par
111  \nobreak
112  \vspace{2.3ex}%
113  \vskip -\parskip
114  \noindent
115  \ignorespacesafterend
116 }

```

2.4 Names

```

117 \providecommand*\eTeX{\mbox{$\varepsilon$-TeX}}
118 \providecommand*\pdfTeX{\pdf\TeX}
119 \providecommand*\pdfLaTeX{\pdf\LaTeX}
120 \providecommand*\LuaTeX{L\textsc{ua}\TeX}
121 \def\@temp#1#2{%
122   \providecommand*{#1}{%
123     \begingroup
124     X%
125     \@ifundefined{rotatebox}{e}{%
126       \lower0.5ex\hbox{%
127         \setbox0=\hbox{E}%
128         \dimen0=\ht0 %
129         \advance\dimen0 by \dp0 %
130         \raise\dimen0\hbox{\rotatebox{180}{\box0}}}%
131     }%
132   }%
133   #2%
134   \endgroup
135 }%
136 }
137 \@tempXeTeX\TeX
138 \@tempXeLaTeX\LaTeX
139 \providecommand*\teTeX{te\TeX}
140 \providecommand*\mikTeX{mik\TeX}
141 \providecommand*\MakeIndex{\textsl{MakeIndex}}
142 \providecommand*\docstrip{\textsf{docstrip}}
143 \providecommand*\plainTeX{\mbox{plain-TeX}}
144 \providecommand*\iniTeX{\mbox{ini-TeX}}
145 \providecommand*\VTeX{V\TeX}

```

2.5 Setup

2.5.1 Package doc

```

146 \CodelineIndex
147 \EnableCrossrefs
148 \setcounter{IndexColumns}{2}

```

```

149 \DoNotIndex{\begingroup,\endgroup,\bgroup,\egroup}
150 \DoNotIndex{\def,\edef,\xdef,\global,\long,\let}
151 \DoNotIndex{\expandafter,\noexpand,\string}
152 \DoNotIndex{\else,\fi,\or}
153 \DoNotIndex{\relax}

```

2.5.2 Page layout

```

154 \addtolength{\textheight}{\headheight}
155 \addtolength{\textheight}{\headsep}
156 \setlength{\headheight}{0pt}
157 \setlength{\headsep}{0pt}

158 \addtolength{\topmargin}{-10mm}
159 \addtolength{\textheight}{20mm}

160 \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
```

¹<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):

```
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 $\text{T}_{\text{E}}\text{X}$ distribution (`te $\text{T}_{\text{E}}\text{X}$` , `mik $\text{T}_{\text{E}}\text{X}$` , ...) relies on file name databases, you must refresh these. For example, `te $\text{T}_{\text{E}}\text{X}$` 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 $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$. 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{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 $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$` :

```
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.

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		
<code>*</code>	100	<code>\CS</code> 74
<code>\,</code>	100	<code>\cs</code> 104
<code>\@currentlabel</code>	25	<code>\csname</code> 103
<code>\@gobble</code>	8, 74	<code>\CTAN</code> 75
<code>\@ifundefined</code>	125	
<code>\@temp</code>	121, 137, 138	D
<code>\%</code>	52, 57, 61, 74, 106	<code>\dimen</code> 128, 129, 130
<code>\{</code>	99	<code>\docstrip</code> 142
<code>\}</code>	99	<code>\DoNotIndex</code> 149, 150, 151, 152, 153
		<code>\dp</code> 129
A		
<code>\addcontentsline</code>	19	E
<code>\addtolength</code>	154, 155, 158, 159	<code>\EnableCrossrefs</code> 147
<code>\addvspace</code>	95	<code>\end</code> 108
<code>\advance</code>	129	<code>\endcsname</code> 103
B		<code>\enditemize</code> 36
<code>\begin</code>	101	<code>\endVersion</code> 36
<code>\box</code>	130	<code>\eTeX</code> 117
C		
<code>\CodelineIndex</code>	146	F
		<code>\File</code> 72
		<code>\footnote</code> 43, 63

H		
\hbox	126, 127, 130	
\headheight	154, 156	
\headsep	155, 157	
\HistLabel	22	
\HistVersion	16, 33	
\hld@@NameEmail	49, 51	
\hld@info	7	
\hld@NameEmail	46, 48	
\hld@warn	10, 53	
\hline	102, 107	
\href	40, 58, 65, 76, 79, 91	
\hspace	98	
\ht	128	
I		
\ifx	52, 57, 61	
\ignorespacesafterend	115	
\iniTeX	144	
\itemize	34	
L		
\label	26	
\LaTeX	119, 138	
\leftmargini	98	
\link	40	
\lower	126	
\LuaTeX	120	
M		
\M	99	
\MakeIndex	141	
\mbox	117, 143, 144	
\meta	99	
\mikTeX	140	
N		
\NameEmail	45, 54	
\NeedsTeXFormat	2	
\newcommand	13, 16, 38, 45, 71, 72, 73, 74, 75, 78, 81, 82, 83, 84, 85, 86, 87, 90	
\newenvironment	30, 93	
\Newsgroup	78	
\nobreak	109, 111	
\noindent	97, 114	
\nolinkurl	58, 65, 76, 79, 91	
P		
\Package	71	
\PackageInfo	8	
\PackageWarningNoLine	11	
\par	94, 110	
\parskip	96, 113	
\pdfLaTeX	119	
\pdfTeX	118	
\phantomsection	18	
\plainTeX	143	
\providecommand	117, 118, 119, 120, 122, 139, 140, 141, 142, 143, 144, 145	
\ProvidesPackage	3	
R		
\raise	130	
\RequirePackage	5, 6	
\rotatebox	130	
S		
\section	14	
\setbox	127	
\setcounter	148	
\setlength	156, 157	
\space	54	
\SpecialUsageIndex	103	
\StartHistory	13, 31	
\subsection	17	
T		
\teTeX	139	
\TeX	117, 118, 120, 137, 139, 140, 143, 144, 145	
\textgreater	88	
\textheight	154, 155, 159	
\textless	88	
\textsc	120	
\textsf	81, 82, 83, 84, 142	
\textsl	141	
\texttt	71, 72, 73, 74, 85, 86, 88, 99, 100	
\topmargin	158	
U		
\unskip	100	
\URL	38	
\url	43	
V		
\varepsilon	117	
\Verb	73	
\Version	32	
\vskip	96, 113	
\vspace	112	
\VTeX	145	
X		
\x	24, 25	
\xclass	83	
\XeLaTeX	138	
\xemail	87	
\XeTeX	137	
\xext	86	
\xfile	85	
\xmodule	82	
\xnewsgroup	90	
\xoption	84	
\xpackage	81	