

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:macros/latex/contrib/oberdiek/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_T_EX, ...) 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 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{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 pdfL^AT_EX:

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

