The holtxdoc package

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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 LaTeX'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

```
\newcommand{\URL}[2]{%
  \begingroup
    \def\link{\href{#2}}%
    #1%
  \endgroup
  \footnote{Url: \url{#2}}%
}
```

\NameEmail
#1: name
#2: email address

```
\newcommand*{\NameEmail}[2]{%
  \expandafter\hld@NameEmail\expandafter{#2}{#1}%
}
\def\hld@NameEmail#1#2{%
  \expandafter\hld@@NameEmail\expandafter{#2}{#1}%
}
\def\hld@@NameEmail#1#2{%
  \ifx\\#1#2\\%
    \hld@warn{%
      Command \string\NameEmail\space without name and email%
    }%
  \else
    \ifx\\#1\\%
      \href{mailto:#2}{\nolinkurl{#2}}%
    \else
      #1%
      \ifx\\#2\\%
      \else
        \footnote{%
          #1's email address: %
          \href{mailto:#2}{\nolinkurl{#2}}%
        }%
      \fi
    \fi
  \fi
}
\newcommand*{\Package}[1]{\texttt{#1}}
\newcommand*{\File}[1]{\texttt{#1}}
\newcommand*{\Verb}[1]{\texttt{#1}}
\newcommand*{\CS}[1]{\texttt{\expandafter\@gobble\string\\#1}}
\newcommand*{\CTAN}[1]{%
  \href{ftp://ftp.ctan.org/tex-archive/#1}{\nolinkurl{CTAN:#1}}%
}
\newcommand*{\Newsgroup}[1]{%
  \href{http://groups.google.com/group/#1/topics}{\nolinkurl{news:#1}}%
}
\newcommand*{\xpackage}[1]{\textsf{#1}}
\newcommand*{\xmodule}[1]{\textsf{#1}}
\newcommand*{\xclass}[1]{\textsf{#1}}
\newcommand*{\xoption}[1]{\textsf{#1}}
\newcommand*{\xfile}[1]{\texttt{#1}}
\newcommand*{\xext}[1]{\texttt{.#1}}
\newcommand*{\xemail}[1]{%
  \textless\texttt{#1}\textgreater%
}
\newcommand*{\xnewsgroup}[1]{%
  \href{news:#1}{\nolinkurl{#1}}%
}
```

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

```
\newenvironment{declcs}[1]{%
  \par
  \addvspace{4.5ex plus 1ex}%
  \vskip -\parskip
  \noindent
  \hspace{-\leftmargini}%
  \def\M##1{\texttt{\{}\meta{##1}\texttt{\}}}%
  \def\*{\unskip\,\texttt{*}}%
  \begin{tabular}{|l|}%
    \hline
    \expandafter\SpecialUsageIndex\csname #1\endcsname
    \cs{#1}%
}{%
    \\%
    \hline
  \end{tabular}%
  \nobreak
  \par
  \nobreak
  \vspace{2.3ex}%
  \vskip -\parskip
  \noindent
  \ignorespacesafterend
}
```

2.4 Names

```
\providecommand*{\eTeX}{\mbox{$\varepsilon$-\TeX}}
\providecommand*{\pdfTeX}{pdf\TeX}
\providecommand*{\pdfLaTeX}{pdf\LaTeX}
\providecommand*{\LuaTeX}{L\textsc{ua}\TeX}
\def\@temp#1#2{%
  \providecommand*{#1}{%
    \begingroup
      X%
      \@ifundefined{rotatebox}{e}{%
        \lower0.5ex\hbox{%
          \setbox0=\hbox{E}%
          \dimen0=\ht0 %
          \advance\dimen0 by \dp0 %
          \raise\dimen0\hbox{\rotatebox{180}{\box0}}%
        }%
      }%
      #2%
    \endgroup
  }%
}
\@temp\XeTeX\TeX
\@temp\XeLaTeX\LaTeX
\providecommand*{\teTeX}{te\TeX}
\providecommand*{\mikTeX}{mik\TeX}
\providecommand*{\MakeIndex}{\textsl{MakeIndex}}
\providecommand*{\docstrip}{\textsf{docstrip}}
\providecommand*{\plainTeX}{\mbox{plain-\TeX}}
\providecommand*{\iniTeX}{\mbox{ini-\TeX}}
\providecommand*{\VTeX}{V\TeX}
```

2.5 Setup

2.5.1 Package doc

```
\CodelineIndex
\EnableCrossrefs
\setcounter{IndexColumns}{2}
```

```
\DoNotIndex{\begingroup,\endgroup,\bgroup,\egroup}
\DoNotIndex{\def,\edef,\xdef,\global,\long,\let}
\DoNotIndex{\expandafter,\noexpand,\string}
\DoNotIndex{\else,\fi,\or}
\DoNotIndex{\relax}
```

2.5.2 Page layout

```
\addtolength{\textheight}{\headheight}
\addtolength{\textheight}{\headsep}
\setlength{\headheight}{0pt}
\setlength{\headsep}{0pt}

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

⟨/package⟩
```

3 Installation

3.1 Download

Package. This package is available on CTAN[1]:

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 TEX 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-TEX:

```
tex holtxdoc.dtx
```

[1] ftp://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 TEX distribution (teTEX, mikTEX, ...) relies on file name databases, you must refresh these. For example, teTEX users run `texhash` or `mktexlsr`.

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 pdfLATEX:

```
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

* 100
\, ... 100
\@currentlabel 25
\@gobble 8, 74
\@ifundefined 125
\@temp 121, 137, 138
\\ 52, 57, 61, 74, 106
\{ 99
\} 99

A

\addcontentsline 19
\addtolength 154, 155, 158, 159
\addvspace 95
\advance 129

B

\begin 101
\box 130

C

\CodelineIndex 146
\CS 74
\cs 104
\csname 103
\CTAN 75

D

\dimen 128, 129, 130
\docstrip 142
\DoNotIndex ... 149, 150, 151, 152, 153
\dp 129

E

\EnableCrossrefs 147
\end 108
\endcsname 103
\enditemize 36
\endVersion 36
\eTeX 117

F

\File 72
\footnote 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