The holtxdoc package

Heiko Oberdiek
<oberdiek@uni-freiburg.de>

2006/06/02 v0.7

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 **4**
3.1 Some details for the interested . . . 5

4 History **5**
[1999/06/26 v0.3] . . . 5
[2000/08/14 v0.4] . . . 5
[2001/08/27 v0.5] . . . 5
[2001/09/02 v0.6] . . . 5
[2006/06/02 v0.7] . . . 6

5 Index **6**

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

```
⟨*package⟩
```

Package identification.

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{holtxdoc}%
  [2006/06/02 v0.7 Private additional ltxdoc support (HO)]
\RequirePackage[numbered]{hypdoc}
\RequirePackage{array}
```

2.1 Help macros

```
\def\hld@info#1{%
  \PackageInfo{holtxdoc}{#1\@gobble}%
}
\def\hld@warn#1{%
  \PackageWarningNoLine{holtxdoc}{#1}%
}
```

2.2 History

```
\newcommand*{\StartHistory}{%
  \section{History}%
}
\newcommand*{\HistVersion}[1]{%
  \subsection*{%
    \phantomsection
    \addcontentsline{toc}{subsection}{[#1]}%
    [#1]%
  }%
  \def\HistLabel##1{%
    \begingroup
      \edef\x{[#1]}%
      \let\@currentlabel\x
      \label{##1}%
    \endgroup
  }%
}
\newenvironment{History}{%
  \StartHistory
  \def\Version##1{%
    \HistVersion{##1}%
    \itemize
  }%
  \let\endVersion\enditemize
}{}
```

2.3 Formatting macros

`\UrlFoot`
`#1`: text
`#2`: url

```
\newcommand{\URL}[2]{%
  #1\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}{\nolinkurl{news:#1}}%
}
\newcommand*{\xpackage}[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]{\texttt{#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*{\teTeX}{te\TeX}
\providecommand*{\mikTeX}{mik\TeX}
\providecommand*{\MakeIndex}{\textsl{MakeIndex}}
\providecommand*{\docstrip}{\textsf{docstrip}}
\providecommand*{\plainTeX}{\mbox{plain-\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

CTAN. 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.

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
```

[1] ftp://ftp.ctan.org/tex-archive/

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.

Refresh file databases. If your TEX distribution (teTEX, mikTEX, ...) rely on file databases, you must refresh these. For example, teTEX users run `texhash` or `mktexlsr`.

3.1 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.

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
\\ 48, 53, 57, 70, 99
\{ 92
\} 92

A

\addcontentsline 19
\addtolength 127, 128, 131, 132
\addvspace 88

B

\begin 94

C

\CodelineIndex 119
\CS 70
\cs 97
\csname 96
\CTAN 71

D

\docstrip 116
\DoNotIndex . . . 122, 123, 124, 125, 126

E

\EnableCrossrefs 120
\end 101
\endcsname 96
\enditemize 36
\endVersion 36
\eTeX 110

F

\File 68
\footnote 39, 59

H

\headheight 127, 129
\headsep 128, 130
\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

I

\ifx 48, 53, 57
\ignorespacesafterend 108
\itemize 34

L

\label 26
\LaTeX 112
\leftmargini 91

M

\M 92
\MakeIndex 115
\mbox 110, 117
\meta 92
\mikTeX 114

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
\par 87, 103
\parskip 89, 106
\pdfLaTeX 112
\pdfTeX 111
\phantomsection 18
\plainTeX 117
\providecommand 110, 111, 112, 113, 114, 115, 116, 117, 118
\ProvidesPackage 3

R

\RequirePackage 5, 6

S

\section 14
\setcounter 121
\setlength 129, 130
\space 50
\SpecialUsageIndex 96
\StartHistory 13, 31
\subsection 17

T

\teTeX 113
\TeX 110, 111, 113, 114, 117, 118
\textgreater 83
\textheight 127, 128, 132
\textless 83
\textsf 77, 78, 79, 116
\textsl 115
\texttt 67, 68, 69, 70, 80, 81, 83, 85, 92, 93
\topmargin 131

U

\unskip 93
\URL 38
\url 39

V

\varepsilon 110
\Verb 69
\Version 32
\vskip 89, 106
\vspace 105
\VTeX 118

X

\x 24, 25
\xclass 78
\xemail 82
\xext 81
\xfile 80
\xnewsgroup 85
\xoption 79
\xpackage 77