

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

```
1 (*package)
```

Package identification.

```
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{holtxdoc}%
4   [2006/06/02 v0.7 Private additional ltxdoc support (H0)]
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]}%
20     [#1]%
21   }%
22   \def\HistLabel##1{%
23     \begingroup
24       \edef\x{[#1]}%
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 }
```

```

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{\pdf\TeX}
112 \providecommand*\pdfLaTeX{\pdf\LaTeX}
113 \providecommand*\teTeX{\te\TeX}
114 \providecommand*\mikTeX{\mik\TeX}
115 \providecommand*\MakeIndex{\textsl{MakeIndex}}
116 \providecommand*\docstrip{\textsf{docstrip}}
117 \providecommand*\plainTeX{\mbox{plain-TeX}}
118 \providecommand*\VTeX{V\TeX}

```

2.5 Setup

2.5.1 Package doc

```

119 \CodelineIndex
120 \EnableCrossrefs
121 \setcounter{IndexColumns}{2}

122 \DoNotIndex{\begingroup,\endgroup,\bgroup,\egroup}
123 \DoNotIndex{\def,\edef,\xdef,\global,\long,\let}
124 \DoNotIndex{\expandafter,\noexpand,\string}
125 \DoNotIndex{\else,\fi,\or}
126 \DoNotIndex{\relax}

```

2.5.2 Page layout

```

127 \addtolength{\textheight}{\headheight}
128 \addtolength{\textheight}{\headsep}
129 \setlength{\headheight}{0pt}
130 \setlength{\headsep}{0pt}

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

133 \end{package}

```

3 Installation

CTAN. This package is available on CTAN¹:

[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<http://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 (`te \TeX` , `mik \TeX` , ...) rely on file databases, you must refresh these. For example, `te \TeX` users run `texhash` or `mktextlsr`.

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 intension:

```
latex \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.

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		I	
<code>*</code>	93	<code>\ifx</code>	48, 53, 57
<code>\,</code>	93	<code>\ignorespacesafterend</code>	108
<code>\@currentlabel</code>	25	<code>\itemize</code>	34
<code>\@gobble</code>	8, 70	L	
<code>\\</code>	48, 53, 57, 70, 99	<code>\label</code>	26
<code>\{</code>	92	<code>\LaTeX</code>	112
<code>\}</code>	92	<code>\leftmargini</code>	91
A		M	
<code>\addcontentsline</code>	19	<code>\M</code>	92
<code>\addtolength</code>	127, 128, 131, 132	<code>\MakeIndex</code>	115
<code>\addvspace</code>	88	<code>\mbox</code>	110, 117
B		<code>\meta</code>	92
<code>\begin</code>	94	<code>\miktex</code>	114
C		N	
<code>\CodelineIndex</code>	119	<code>\NameEmail</code>	41, 50
<code>\CS</code>	70	<code>\NeedsTeXFormat</code>	2
<code>\cs</code>	97	<code>\newcommand</code>	13, 16, 38, 41, 67, 68, 69, 70, 71, 74, 77, 78, 79, 80, 81, 82, 85
<code>\csname</code>	96	<code>\newenvironment</code>	30, 86
<code>\CTAN</code>	71	<code>\Newsgroup</code>	74
D		<code>\nobreak</code>	102, 104
<code>\docstrip</code>	116	<code>\noindent</code>	90, 107
<code>\DoNotIndex</code>	122, 123, 124, 125, 126	<code>\nolinkurl</code>	54, 61, 72, 75
E		P	
<code>\EnableCrossrefs</code>	120	<code>\Package</code>	67
<code>\end</code>	101	<code>\PackageInfo</code>	8
<code>\endcsname</code>	96	<code>\PackageWarningNoLine</code>	11
<code>\enditemize</code>	36	<code>\par</code>	87, 103
<code>\endVersion</code>	36	<code>\parskip</code>	89, 106
<code>\eTeX</code>	110	<code>\pdfLaTeX</code>	112
F		<code>\pdfTeX</code>	111
<code>\File</code>	68	<code>\phantomsection</code>	18
<code>\footnote</code>	39, 59	<code>\plainTeX</code>	117
H		<code>\providecommand</code>	110, 111, 112, 113, 114, 115, 116, 117, 118
<code>\headheight</code>	127, 129	<code>\ProvidesPackage</code>	3
<code>\headsep</code>	128, 130	R	
<code>\HistLabel</code>	22	<code>\RequirePackage</code>	5, 6
<code>\HistVersion</code>	16, 33	S	
<code>\hld@NameEmail</code>	45, 47	<code>\section</code>	14
<code>\hld@info</code>	7	<code>\setcounter</code>	121
<code>\hld@NameEmail</code>	42, 44	<code>\setlength</code>	129, 130
<code>\hld@warn</code>	10, 49	<code>\space</code>	50
<code>\hline</code>	95, 100	<code>\SpecialUsageIndex</code>	96
<code>\href</code>	54, 61, 72, 75	<code>\StartHistory</code>	13, 31
<code>\hspace</code>	91	<code>\subsection</code>	17

T		V	
\teTeX	113	\varepsilon	110
\TeX	110, 111, 113, 114, 117, 118	\Verb	69
\textgreater	83	\Version	32
\textheight	127, 128, 132	\vskip	89, 106
\textless	83	\vspace	105
\textsf	77, 78, 79, 116	\VTeX	118
\textsl	115	X	
\texttt	67, 68, 69, 70, 80, 81, 83, 85, 92, 93	\x	24, 25
\topmargin	131	\xclass	78
U		\xemail	82
\unskip	93	\xext	81
\URL	38	\xfile	80
\url	39	\xnewsgroup	85
		\xoption	79
		\xpackage	77