The \texttt{holtxdoc} package

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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 \texttt{hypdoc}.

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*Please report any issues at \url{https://github.com/ho-tex/oberdiek/issues}
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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 \texttt{CTAN:pkg/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 \texttt{hypdoc}.

2 Implementation

1 \langle*package\rangle

Package identification.

2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{holtxdoc}\%
4 [2019/12/09 v0.30 Private additional ltxdoc support (HO)]
5 \PassOptionsToPackage{pdfencoding=auto}{hyperref}
6 \RequirePackage[numbered]{hypdoc}[2010/03/26]
7 \RequirePackage{hyperref}[2010/03/30]
8 \RequirePackage[pdftexcmds]{2010/04/01}
9 \RequirePackage{ltexcmds}[2010/03/09]
10 \RequirePackage{hologo}[2011/11/22]
11 \RequirePackage{array}

2.1 Help macros

12 \def\hl@info#1{%
13 \PackageInfo{holtxdoc}{#1}@gobble}%
14 }%
15 \def\hl@warn#1{%
16 \PackageWarningNoLine{holtxdoc}{#1}%
17 }

2.2 Font setup for \texttt{LuaLaTeX}

18 \ifluatex
19 \RequirePackage{fontspec}[2011/09/18]%
20 \RequirePackage{unicode-math}[2011/09/19]%
21 \setmathfont{latinmodern-math.otf}%
22 \fi

2.3 Date
23 \IfUndefined{pdf@filemoddate}{% 24 }{% 25 \edef\hld@temp{pdf@filemoddate{\jobname.dtx}}% 26 \ifx\hld@temp\ltxempty 27 \else 28 \begingroup 29 \def\x#1:#2#3#4#5#6#7#8#9{% 30 \year=#2#3#4#5\relax 31 \month=#6#7\relax 32 \day=#8#9\relax 33 \y 34 }% 35 \def\y#1#2#3#4#5\@nil{% 36 \time=#1#2\relax 37 \multiply\time by 60\relax 38 \advance\time#3#4\relax 39 }% 40 \expandafter\x\hld@temp\@nil 41 \edef\x{\endgroup 42 \year=\the\year\relax 43 \month=\the\month\relax 44 \day=\the\day\relax 45 \time=\the\time\relax 46 }% 47 \x 48 \edef\hld@temp{% 49 \noexpand\hypersetup{% 50 pdfcreationdate=\hld@temp, 51 pdfmoddate=\hld@temp 52 }% 53 }% 54 \hld@temp 55 \fi 56 \}

2.4 History

\providecommand*{\historyname}{History}
\newcommand*{\StartHistory}{% 57 \section{\historyname} 58 }
\@ifpackagelater{hyperref}{2009/11/27}{% 59 \newcommand*{\HistVersion}[1]{% 60 \subsection*{[#1]}% hash-ok 61 \addcontentsline{toc}{subsection}{[#1]}% hash-ok 62 \def\HistLabel##1{% 63 \begingroup 64 \protected@edef\@currentlabel{[#1]}% hash-ok 65 \label{##1}% hash-ok 66 \endgroup 67 }% 68 \HistLabel 69 }% 70 \HistVersion 71 \HistLabel
72 \}
\newcommand*{\HistVersion}[1]{% 73 \subsection*{\phantomsection\addcontentsline{toc}{subsection}{[##1]}% hash-ok 74 \def\HistLabel##1{% 75 \begingroup 76 \protected@edef\@currentlabel{##1}% hash-ok 77 \label{##1}% hash-ok 78 \endgroup 79 }% 80 \HistLabel
81 \}

3
\newenvironment{History}{%}
\StartHistory
\def\Version##1{%
\HistVersion{##1}%
}@ifnextchar\end{%
\let\endVersion\relax
}%
\let\endVersion\enditemize
\itemize
%}
\raggedright
%
}}

2.5 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\%\%
\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
\fi
\fi
\fi

}
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
}{%}

\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
}{%}
2.6 Names

\def\eTeX{\hologo{eTeX}}
\def\pdfTeX{\hologo{pdfTeX}}
\def\pdfLaTeX{\hologo{pdfLaTeX}}
\def\LuaTeX{\hologo{LuaTeX}}
\def\LuaLaTeX{\hologo{LuaLaTeX}}
\def\XeTeX{\hologo{XeTeX}}
\def\XeLaTeX{\hologo{XeLaTeX}}
\def\plainTeX{\hologo{plainTeX}}
\providecommand*{\teTeX}{\hologo{teTeX}}
\providecommand*{\mikTeX}{\hologo{MiKTeX}}
\providecommand*{\MakeIndex}{\textsl{MakeIndex}}
\providecommand*{\docstrip}{\textsf{docstrip}}
\providecommand*{\iniTeX}{\hologo{iniTeX}}
\providecommand*{\VTeX}{\hologo{VTeX}}

2.7 Setup

2.7.1 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}
\IndexPrologue{\section*{Index} %
where the corresponding entry is described; %
\ifcodeline@index %
code line of the %
\fi %
definition; plain numbers refer to the %
\ifcodeline@index %
code lines %
\else %
pages %
\fi %
where the entry is used. %}

2.7.2 Page layout

\addtolength{\textheight}{\headheight}
\addtolength{\textheight}{\headsep}
\setlength{\headheight}{(Opt)}
\setlength{\headsep}{(Opt)}
\addtolength{\topmargin}{-10mm}
\addtolength{\textheight}{20mm}

3 Installation

3.1 Download

Package. This package is available on CTAN\footnote{CTAN:pkg/holtxdoc}:
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:pkg/tds). 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

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

TDS. Now the different files must be moved into the different directories in your installation TDS tree (also known as texmf tree):

   holtxdoc.sty \rightarrow tex/latex/oberdiek/holtxdoc.sty
   holtxdoc.pdf \rightarrow doc/latex/oberdiek/holtxdoc.pdf
   holtxdoc.dtx \rightarrow 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 (TeX Live, MiKTeX, ...) relies on file name databases, you must refresh these. For example, TeX Live users run texhash or mktexlsr.

3.5 Some details for the interested

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 \TeX:

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.

[2009/12/02 v0.13]
• Anchor hack for unnumbered subsections is removed for hyperref ≥
  2009/11/27 6.79k.
• \TeXeX and \TeXeLaTeX are made robust.

• \LuaTeX changed according to Hans Hagen’s definition in the luatex mailing list.

• Use date and time of .dtx file.

• Option pdfencoding=auto added for package hyperref.
  • Package hologo added.

• Standard index prologue replaced by corrected prologue.

• Requested date of package hologo updated.

• History is now set using \texttt{\raggedright}.

• GL needs \texttt{\protected@edef} instead of \texttt{\edef} in \texttt{\HistLabel}.

• Font stuff added for Lua\LaTeX.

• Accept empty history version.

• Section title for history uses \texttt{\historyname}.

• Documentation updates.

• Documentation updates.

• New name for lm math font
[2019/07/27 v0.28]
  • Use CTAN’s preferred URL form for packages Documentation updates.

[2019/11/12 v0.29]
  • Add \bibpackage (previously defined inline in some of the packages).
    Adjust CTAN links.

[2019/12/09 v0.30]
  • Documentation updates.
  • Don’t use ifluatex legacy package.
  • use ‘hologo definitions in more cases.

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; plain numbers refer to the code lines where the entry is used.

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