The holtxdoc package

Heiko Oberdiek*

2019/12/09 v0.30

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 Implementation
   2.1 Help macros .................................................. 2
   2.2 Font setup for LuaL\TeX . .................................... 2
   2.3 Date ............................................................. 3
   2.4 History ......................................................... 3
   2.5 Formatting macros ............................................. 4
   2.6 Names .......................................................... 6
   2.7 Setup .......................................................... 6
      2.7.1 Package doc ................................................ 6
      2.7.2 Page layout ............................................... 7
3 Installation
   3.1 Download ..................................................... 7
   3.2 Bundle installation .......................................... 7
   3.3 Package installation ......................................... 7
   3.4 Refresh file name databases ................................ 8
   3.5 Some details for the interested .............................. 8
4 History
   [1999/06/26 v0.3] ................................................ 8
   [2000/08/14 v0.4] ................................................ 8
   [2001/08/27 v0.5] ................................................ 8
   [2001/09/02 v0.6] ................................................ 9
   [2006/06/02 v0.7] ................................................ 9
   [2007/10/21 v0.8] ................................................ 9
   [2007/11/11 v0.9] ................................................ 9
   [2007/12/12 v0.10] ............................................... 9
   [2008/08/11 v0.11] ............................................... 9
   [2009/08/07 v0.12] ............................................... 9
   [2009/12/02 v0.13] ............................................... 9

*Please report any issues at https://github.com/ho-tex/oberdiek/issues
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: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 hypdoc.

2 Implementation

1 ⟨∗package⟩

Package identification.
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{holtxdoc} % [2019/12/09 v0.30 Private additional \ltxdoc support (HD)]
\PassOptionsToPackage{pdfencoding=auto}{hyperref}
\RequirePackage[numbered]{hypdoc} [2010/03/26]
\RequirePackage{hyperref} [2010/03/30]
\RequirePackage{pdftexcmds} [2010/04/01]
\RequirePackage{ltxcmds} [2010/03/09]
\RequirePackage{hologo} [2011/11/22]
\RequirePackage{array}

2.1 Help macros

12 \def\hld@info#1{%
13 \PackageInfo{holtxdoc}{#1}@gobble}%
14 }%
15 \def\hld@warn#1{%
16 \PackageWarningNoLine{holtxdoc}{#1}%
17 }%
2.2 Font setup for \\LaTeX

\if\ifluatex
\noindent\vspace{2em}
\fi\fi

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

2.3 Date

\ltx@ifundefined{pdf@filemoddate}{% \edef\hld@temp{pdf@filemoddate{\jobname.dtx}}\%
\if\ifx\hld@temp\ltx@empty
\else
\begingroup
\edef\x#1:#2#3#4#5#6#7#8#9{\%
\year=#2#3#4#5\relax
\month=#6#7\relax
\day=#8#9\relax
\y
\def\y\#1\#2\#3\#4\#5\#6\#7\#8\#9\nil{\%
\time=#1#2\relax
\multiply\time\text{ by 60}\relax
\advance\time\text{ by }\text{ days}\relax
\advance\time\text{ by }\text{ years}\relax
\expandafter\x\hld@temp\@nil
\edef\x{\endgroup
\year=\the\year\relax
\month=\the\month\relax
\day=\the\day\relax
\time=\the\time\relax
}\%
\edef\hld@temp{\%
\noexpand\hypersetup{\%
pdfcreationdate=\hld@temp,\%
pdfmoddate=\hld@temp
}\%
}\hld@temp
\fi
\fi

2.4 History

\providecommand*{\historyname}{History}
\newcommand*{\StartHistory}{% \section{\historyname}%
\@ifpackagelater{hyperref}{2009/11/27}{% \newcommand*{\HistVersion}{#1}{% \subsection*{[#1]}% hash-ok
\addcontentsline{toc}{subsection}{[#1]}% hash-ok
\def\HistLabel##1{\%
\begingroup
\protected@edef\@currentlabel{[#1]}% hash-ok
\edef\hld@temp{\%
\noexpand\hypersetup{\%
pdfcreationdate=\hld@temp,\%
pdfmoddate=\hld@temp
}\%
}\hld@temp
\fi
\fi

\historyname
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#2\% 
\hld@warn{% 
4
} 
}
The following environment `declcs` is derived from environment `decl` of `ltxguide.cls`:

```
\newenvironment{declcs}[1]{%  
  \par
  \addvspace{4.5ex plus 1ex}
}
```

Command `\\string\NameEmail\space without name and email`%
\else
  \ifx\\#1\\%
    \href{mailto:#2}\{\nolinkurl{#2}\}%
  \else
    \#1%
  \fi
  \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*{\bibpackage}{[4]{%
  \bibitem{#1}
  Package \xpackage{#1}, #2, #3.%
  \ifx\#4\%
  \else\space#4\fi\par
}}
\newcommand*{\CTAN}{[1]{%
  \href{https://ctan.org/tex-archive/#1}{\nolinkurl{CTAN:#1}}%
}}
\newcommand*{\CTANinstall}{[1]{%
  \href{http://mirrors.ctan.org/#1}{\nolinkurl{CTAN:#1}}%
}}
\newcommand*{\CTANpkg}{[1]{%
  \href{http://ctan.org/pkg/#1}{\nolinkurl{CTAN:pkg/#1}}%
}}
\newcommand*{\Newsgroup}{[1]{%
  \href{https://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}
}
```
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}
  \markboth{Index}{Index}
}
Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the
2.7.2 Page layout

\addtolength{\textheight}{\headheight}
\addtolength{\textheight}{\headsep}
\setlength{\headheight}{0pt}
\setlength{\headsep}{0pt}
\addtolength{\topmargin}{-10mm}
\addtolength{\textheight}{20mm}

3 Installation

3.1 Download

Package. This package is available on CTAN\textsuperscript{1}:


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 \texttt{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 \texttt{texmf} tree) of your choice. Example (linux):

\begin{verbatim}
unzip oberdiek.tds.zip -d "/texmf"
\end{verbatim}

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{}:

\begin{verbatim}
tex holtxdoc.dtx
\end{verbatim}

\textsuperscript{1}CTAN:pkg/holtxdoc
TDS. Now the different files must be moved into the different directories in your installation TDS tree (also known as \texttt{texmf} tree):

- \texttt{holtxdoc.sty} → \texttt{tex/latex/oberdiek/holtxdoc.sty}
- \texttt{holtxdoc.pdf} → \texttt{doc/latex/oberdiek/holtxdoc.pdf}
- \texttt{holtxdoc.dtx} → \texttt{source/latex/oberdiek/holtxdoc.dtx}

If you have a \texttt{docstrip.cfg} that configures and enables \texttt{docstrip}'s TDS installing feature, then some files can already be in the right place, see the documentation of \texttt{docstrip}.

3.4 Refresh file name databases

If your \TeX{} distribution (\TeX{} Live, MiKi\TeX{}, \ldots) relies on file name databases, you must refresh these. For example, \TeX{} Live users run \texttt{texhash} or \texttt{mktexlsr}.

3.5 Some details for the interested

Unpacking with \LaTeX{}. The \texttt{.dtx} chooses its action depending on the format:

plain \TeX{}: Run \texttt{docstrip} and extract the files.

\LaTeX{}: Generate the documentation.

If you insist on using \LaTeX{} for \texttt{docstrip} (really, \texttt{docstrip} does not need \LaTeX{}), then inform the autodetect routine about your intention:

\begin{verbatim}
latex \let\install=y\input{holtxdoc.dtx}
\end{verbatim}

Do not forget to quote the argument according to the demands of your shell.

Generating the documentation. You can use both the \texttt{.dtx} or the \texttt{.drv} to generate the documentation. The process can be configured by the configuration file \texttt{ltxdoc.cfg}. For instance, put this line into this file, if you want to have A4 as paper format:

\begin{verbatim}
\PassOptionsToClass{a4paper}{article}
\end{verbatim}

An example follows how to generate the documentation with \texttt{pdfLaTeX}:

\begin{verbatim}
pdflatex holtxdoc.dtx
makeindex -s gind.ist holtxdoc.idx
pdflatex holtxdoc.dtx
makeindex -s gind.ist holtxdoc.idx
pdflatex holtxdoc.dtx
\end{verbatim}

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.

[2010/02/03 v0.14]
  • \XeTeX and \XeLaTeX are made robust.

[2010/03/10 v0.15]
  • \LuaTeX changed according to Hans Hagen’s definition in the luatex mailing list.

[2010/04/03 v0.16]
  • Use date and time of .dtx file.

[2010/04/08 v0.17]
  • Option pdfencoding=auto added for package hyperref.
  • Package hologo added.

[2010/04/18 v0.18]
  • Standard index prologue replaced by corrected prologue.
• Requested date of package hologo updated.

• History is now set using \raggedright.

• GL needs \protectededef instead of \edef in \HistLabel.

• Font stuff added for Lua\TeX.

• Accept empty history version.

• Section title for history uses \historyname.

• Documentation updates.

• Documentation updates.

• New name for lm math font

• Use CTAN’s preferred URL form for packages Documentation updates.

• Add \bibpackage (previously defined inline in some of the packages). Adjust CTAN links.

• 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.

<table>
<thead>
<tr>
<th>Symbols</th>
<th>Page References</th>
</tr>
</thead>
<tbody>
<tr>
<td>*</td>
<td>173</td>
</tr>
<tr>
<td>,</td>
<td>173</td>
</tr>
<tr>
<td>@currentlabel</td>
<td>67, 81</td>
</tr>
<tr>
<td>@gobble</td>
<td>13, 136</td>
</tr>
<tr>
<td>@ifnextchar</td>
<td>91</td>
</tr>
<tr>
<td>@ifpackagelater</td>
<td>61</td>
</tr>
<tr>
<td>@nil</td>
<td>35, 40, 172</td>
</tr>
<tr>
<td>\</td>
<td>114, 119, 123, 136, 140, 179</td>
</tr>
<tr>
<td>{</td>
<td>172</td>
</tr>
<tr>
<td>}</td>
<td>172</td>
</tr>
<tr>
<td>\addcontentsline</td>
<td>64, 76</td>
</tr>
<tr>
<td>\addtolength</td>
<td>229, 230, 233, 234</td>
</tr>
<tr>
<td>\addvspace</td>
<td>168</td>
</tr>
<tr>
<td>\advance</td>
<td>38</td>
</tr>
<tr>
<td>\begin</td>
<td>174</td>
</tr>
<tr>
<td>\bibitem</td>
<td>138</td>
</tr>
<tr>
<td>\bibpackage</td>
<td>137</td>
</tr>
<tr>
<td>\CodelineIndex</td>
<td>204</td>
</tr>
<tr>
<td>\CS</td>
<td>136</td>
</tr>
<tr>
<td>\cs</td>
<td>177</td>
</tr>
<tr>
<td>\csname</td>
<td>176</td>
</tr>
<tr>
<td>\CTAN</td>
<td>142</td>
</tr>
<tr>
<td>\CTANinstall</td>
<td>145</td>
</tr>
<tr>
<td>\CTANpkg</td>
<td>148</td>
</tr>
<tr>
<td>\day</td>
<td>32, 44</td>
</tr>
<tr>
<td>\docstrip</td>
<td>201</td>
</tr>
<tr>
<td>\DoNotIndex</td>
<td>207, 208, 209, 210, 211</td>
</tr>
<tr>
<td>\EnableCrossrefs</td>
<td>205</td>
</tr>
<tr>
<td>\end</td>
<td>91, 181</td>
</tr>
<tr>
<td>\endcsname</td>
<td>176</td>
</tr>
<tr>
<td>\enditemize</td>
<td>94</td>
</tr>
<tr>
<td>\endversion</td>
<td>92, 94</td>
</tr>
<tr>
<td>\eTeX</td>
<td>190</td>
</tr>
<tr>
<td>\File</td>
<td>134</td>
</tr>
<tr>
<td>\footnote</td>
<td>105, 125</td>
</tr>
<tr>
<td>\headheight</td>
<td>229, 231</td>
</tr>
<tr>
<td>\headsep</td>
<td>230, 232</td>
</tr>
<tr>
<td>\HistLabel</td>
<td>65, 79</td>
</tr>
<tr>
<td>\historyname</td>
<td>57, 59</td>
</tr>
<tr>
<td>\HistVersion</td>
<td>62, 73, 90</td>
</tr>
<tr>
<td>\hld@NameEmail</td>
<td>111, 113</td>
</tr>
<tr>
<td>\hld@info</td>
<td>12</td>
</tr>
<tr>
<td>\hld@NameEmail</td>
<td>108, 110</td>
</tr>
<tr>
<td>\hld@temp</td>
<td>25, 26, 40, 48, 50, 51, 54</td>
</tr>
<tr>
<td>\hld@warn</td>
<td>15, 115</td>
</tr>
<tr>
<td>\hline</td>
<td>175, 180</td>
</tr>
<tr>
<td>\hlogo</td>
<td>190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 202, 203</td>
</tr>
<tr>
<td>\href</td>
<td>102, 120, 127, 143, 146, 149, 152, 164</td>
</tr>
<tr>
<td>\hspace</td>
<td>171</td>
</tr>
<tr>
<td>\hypersetup</td>
<td>49</td>
</tr>
<tr>
<td>\ifcodeline@index</td>
<td>218, 222</td>
</tr>
<tr>
<td>\ifluatex</td>
<td>18</td>
</tr>
<tr>
<td>\ifx</td>
<td>26, 114, 119, 123, 140</td>
</tr>
<tr>
<td>\ignorespacesafterend</td>
<td>188</td>
</tr>
<tr>
<td>\IndexPrologue</td>
<td>212</td>
</tr>
<tr>
<td>\iniTeX</td>
<td>202</td>
</tr>
<tr>
<td>\itemize</td>
<td>95</td>
</tr>
<tr>
<td>\jobname</td>
<td>25</td>
</tr>
<tr>
<td>\label</td>
<td>68, 82</td>
</tr>
<tr>
<td>\leftmargini</td>
<td>171</td>
</tr>
<tr>
<td>\link</td>
<td>102</td>
</tr>
<tr>
<td>\ltx@empty</td>
<td>26</td>
</tr>
<tr>
<td>\ltx@ifUndefined</td>
<td>23</td>
</tr>
<tr>
<td>\LuaLaTeX</td>
<td>194</td>
</tr>
<tr>
<td>\LuaTeX</td>
<td>193</td>
</tr>
<tr>
<td>\M</td>
<td>172</td>
</tr>
<tr>
<td>\MakeIndex</td>
<td>200</td>
</tr>
<tr>
<td>\markboth</td>
<td>214</td>
</tr>
<tr>
<td>\meta</td>
<td>172</td>
</tr>
<tr>
<td>\mikTeX</td>
<td>199</td>
</tr>
<tr>
<td>\month</td>
<td>31, 43</td>
</tr>
<tr>
<td>\multiply</td>
<td>37</td>
</tr>
<tr>
<td>\NameEmail</td>
<td>107, 116</td>
</tr>
<tr>
<td>\NeedsTeXFormat</td>
<td>2</td>
</tr>
<tr>
<td>\newcommand</td>
<td>58, 62, 73, 100, 107, 133, 134, 135, 136, 137, 142, 145, 148, 151, 154, 155, 156, 157, 158, 159, 160, 163</td>
</tr>
</tbody>
</table>