The 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 hypdoc.

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*Please report any issues at 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 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   [2016/05/17 v0.27 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{ltxcmds}[2010/03/09]
10 \RequirePackage{hologo}[2011/11/22]
11 \RequirePackage{ifluatex}[2010/03/01]
12 \RequirePackage{array}
```

2.1 Help macros

```
13 \def\hld@info#1{%
14   \PackageInfo{holtxdoc}{#1\@gobble}%
15 }
16 \def\hld@warn#1{%
17   \PackageWarningNoLine{holtxdoc}{#1}%
18 }
```

2.2 Font setup for LuaLaTeX

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

2.3 Date

```
\ltx@IfUndefined{pdf@filemoddate}{%
}{%
  \edef\hld@temp{\pdf@filemoddate{\jobname.dtx}}%
  \ifx\hld@temp\ltx@empty
  \else
    \begingroup
      \def\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\@nil{%
        \time=#1#2\relax
        \multiply\time by 60\relax
        \advance\time#3#4\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
      }%
    \x
    \edef\hld@temp{%
      \noexpand\hypersetup{%
        pdfcreationdate=\hld@temp,%
        pdfmoddate=\hld@temp
      }%
    }%
    \hld@temp
  \fi
}
```

2.4 History

\historyname

```
\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
        \label{##1}%
      \endgroup
    }%
  }%
}{%
  \newcommand*{\HistVersion}[1]{%
    \subsection*{%
      \phantomsection
      \addcontentsline{toc}{subsection}{[#1]}% hash-ok
      [#1]% hash-ok
    }%
    \def\HistLabel##1{%
```

```
      \begingroup
        \protected@edef\@currentlabel{[#1]}% hash-ok
        \label{##1}%
      \endgroup
    }%
  }%
}
\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#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{http://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
}
```

2.6 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}{te\TeX}
```

```
\providecommand*{\mikTeX}{mik\TeX}
\providecommand*{\MakeIndex}{\textsl{MakeIndex}}
\providecommand*{\docstrip}{\textsf{docstrip}}
\providecommand*{\iniTeX}{\mbox{ini-\TeX}}
\providecommand*{\VTeX}{V\TeX}
```

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 %
  \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}{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.

[1] http://ctan.org/pkg/holtxdoc

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
```

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

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 Catalogue

The following XML file can be used as source for the TEX Catalogue. The elements caption and description are imported from the original XML file from the Catalogue. The name of the XML file in the Catalogue is holtxdoc.xml.

```
⟨*catalogue⟩
<?xml version='1.0' encoding='us-ascii'?>
<!DOCTYPE entry SYSTEM 'catalogue.dtd'>
<entry datestamp='$Date$' modifier='$Author$' id='holtxdoc'>
  <name>holtxdoc</name>
  <caption>Documentation macros for oberdiek bundle, etc.</caption>
  <authorref id='auth:oberdiek'/>
  <copyright owner='Heiko Oberdiek' year='1999-2012'/>
  <license type='lppl1.3'/>
  <version number='0.27'/>
  <description>
    These are personal macros, which are not necessarily useful to
    other authors (they are provided as part off the source of others
    of the author's packages). Macros that may be of use to other
    authors are available separately, in package
    <xref refid='hypdoc'>hypdoc</xref>.
    <p/>
    The package is part of the <xref refid='oberdiek'>oberdiek</xref> bundle.
  </description>
  <documentation details='Package documentation'
      href='ctan:/macros/latex/contrib/oberdiek/holtxdoc.pdf'/>
  <ctan file='true' path='/macros/latex/contrib/oberdiek/holtxdoc.dtx'/>
  <miktex location='oberdiek'/>
  <texlive location='oberdiek'/>
  <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip'/>
</entry>
⟨/catalogue⟩
```

5 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 $\geq$ 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.

[2010/04/24 v0.19]

- Requested date of package hologo updated.

[2010/12/03 v0.20]

- History is now set using \raggedright.

[2011/02/04 v0.21]

- GL needs \protected@edef instead of \edef in \HistLabel.

[2011/11/22 v0.22]

- Font stuff added for LuaLaTeX.

[2012/03/07 v0.23]

- Accept empty history version.

[2012/03/21 v0.24]

- Section title for history uses `\historyname`.

[2016/05/16 v0.25]

- Documentation updates.

[2016/05/16 v0.26]

- Documentation updates.

[2016/05/17 v0.27]

- New name for lm math font

6 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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