The classpack LaTeX 2ε package*

XML mastering for LaTeX classes and packages

Literate-programming solution for class and package maintenance

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Summary

LaTeX document classes and packages are conventionally created, maintained, and distributed in DocTeX (`.dtx`) format using the ltxdoc class, which provides for interleaved code and documentation ('literate programming'). However, the accurate construction of these files is technically challenging, and editing them is tedious and error-prone.

ClassPack allows a developer to create a *DocBook5* XML document for a class or package, containing the documentation and annotated code, and it provides XSLT3 scripts to generate the `.dtx`, `.ins`, and other files, which can be combined into a zip file suitable for submission to CTAN.

This package classpack *contains the small typographic adjustments and utilities needed to re-typeset the documentation of classes and packages developed using* classpack-dev*. It is not used for any other purpose and is not required for using any other class or package, only for the documentation of* ClassPack*–developed classes and packages.*

You do not need to install the upcoming development package classpack-dev unless you want to develop classes or packages by using *ClassPack* yourself.

ClassPack is a work-in-progress. A paper describing an earlier version was presented at the Balisage markup conference in Montréal (Flynn, 2013).

*This document corresponds to classpack *v.* 1.19, dated 2020/05/19.

Contents

Latest changes

v.1.19 (2020-05-19)

- Prefixed local variables with CPK
- CTAN candidate

v.1.18 (2020-04-01)

- Split project into classpack and classpack-dev
- Replaced `@conformance` with `@YYYY-MM-DD` on all `date` elements in the revision history. This meant a complete regression run after editing all source masters to use this change
- Fixed bug in makechapapp where it failed to add the filetype before substringing the full name of the document

v.1.17 (2020-03-19)

- Documentation nearly finished
- Added remaining XSLT files and scripts
- Recoded the distinction between appendixes in the code part and chapters in the files part.

v.1.16 (2019-10-20)

- Documentation ongoing
- Added detection of options on url and xcolor
- Changed order of packages in `prepost.xml` to prevent option clashes

See p. 22 for earlier changes.

1 The *ClassPack* package

ClassPack itself is an XML-based class and package development and management system described in the documentation for the classpack-dev package. This package, classpack, is responsible only for formatting the documentation of classes and packages developed using *ClassPack*.

The only operating LaTeX code is therefore the settings and ancillary commands summarised in section 1.1 and documented in section 3 on page 6.

1.1 Features

Details of the annotated code are in section 3 on page 6. They cover the following formatting changes:

1. Two-column index instead of three-column
2. Dark Blue colour for annotated code
3. Recalculation of the left-hand margin in documentation to accommodate long variable names
4. Wider space for the section numbers and page numbers in the Table of Contents, and ragged-right setting for section titles to prevent hyphenation
5. Appendixes (used for annotated code for ancillary files) are styled at section level, not chapter level
6. Definitions for the ConTeXt, XeTeX, and XeLaTeX logos (borrowed from the TUGboat style)
7. Fake small caps (also from TUGboat) for the BibTeX logo
8. New struts for adjusting table spacing, and an arrow between examples of menu items in documentation
9. Some hyphenation oddities
10. A fix for the broken description environment item label to stop it overflowing
11. A counter to be used when calculating the number of items in a list

2 References

Flynn, P. (2013). Markup to generate markup to generate markup: Using XML to create and maintain LaTeX packages and classes, In *Proc. Balisage—The Markup Conference 2013*, Montréal, QC, Balisage Series on Markup Technologies. http://www.balisage.net/Proceedings/vol10/html/Flynn01/BalisageVol10-Flynn01.html

Hagen, H. (2001). *ConTEXt the manual*. 8061GH Hasselt, NL, Pragma-ADE. Retrieved March 27, 2013, from http://www.pragma-ade.com/general/manuals/cont-eni.pdf

3 The classpack macros and settings

3.1 Auto-initialisation

This section is added automatically by *ClassPack* as a preamble to all classes and style packages. The fixltx2e package, which used to be included automatically, is no longer preloaded, as its features are now a part of the latest LaTeX 2_ε kernel.

The code starts with identity and requirements which are generated automatically as needed by the DocTeX system. For details see the ltxdoc package documentation.

```
\NeedsTeXFormat{LaTeX2e}[2015/01/01]
\ProvidesPackage{classpack}[2020/05/19 v1.19
  Macros for ClassPack documentation]
```

3.2 Packages required for the package

graphicx Provide for graphics (PNG, JPG, or PDF format (only) for pdflatex; EPS format (only) for standard LaTeX).

```
\RequirePackage{graphicx}%
```

array Additional column formatting types for tables.

```
\RequirePackage{array}%
```

url Handling of URI formatting.

```
\RequirePackage{url}%
```

marginnote Adds more flexibiltiy to marginal notes.

```
\RequirePackage[fulladjust]{marginnote}%
```

3.3 Index settings

IndexColumns The doctex package uses a default three-column index for the documentation, which is too narrow for most purposes. We therefore

make the index in two columns, and space them slightly farther apart. We test first for the existence of the counter, in case this gets used in a
columnsep document other than a `.dtx` file. No such test is needed for `columnsep` because it is defined in the LaTeX kernel.

```
\@ifundefined{c@IndexColumns}{}{\setcounter{IndexColumns}{2}}
\setlength{\columnsep}{3pc}
```

3.4 Annotation settings

\MacroFont The doc and docx packages use the `\MacroFont` command for the marginal labelling of code annotation. We redefine it here to add the colour DarkBlue (from the **svgnames** option to the xcolor package).

```
\def\MacroFont{\fontencoding\encodingdefault
  \ttfamily\fontseries{m}\fontshape\updefault
  \small\selectfont\color{DarkBlue}}
```

\CPKrevmarg The default margin width is often not wide enough for long macro names, so in the XSLT3 code in `db2dtx.xsl` we find the widest name and add any excess over 25mm to the margin width. Here we define and set the width parameter for this, which will get reset later when calculated. The name has no at-sign, as it operates in user mode.

```
\newlength{\CPKrevmarg}
\setlength{\CPKrevmarg}{25mm}
```

\CPKrunningecho This allows alignment of the current annotation name (from `@xreflabel`) as a reminder in a marginal note in a fake subheading implemented by a `bridgehead` element. Again, no at-sign for a user-mode command.

```
\newcommand{\CPKrunningecho}[1]{\leavevmode
  \marginnote[\sloppy\raggedleft\color{LightGrey}\hspace{0pt}#1]%
             {\sloppy\raggedright\color{LightGrey}\hspace{0pt}#1}%
}
\let\marginfont\ttfamily
```

3.5 Table of Contents

\l@subsection Documentation can sometimes have more than nine subdivisions in sections, subsections, etc, and over 99 pages; and the default widths in the ToC are too narrow for this, so we widen the space for the subsection number by 0.4em:

```
\renewcommand*\l@subsection{%
  \@dottedtocline{2}{1.5em}{2.7em}}
```

\l@subsubsection Similarly we increase the subsection number space by 0.4em, and its margin, so they align:

```
\renewcommand*\l@subsubsection{%
  \@dottedtocline{3}{4.2em}{3.6em}}
```

\@pnumwidth The page number width is set to 3em instead of 1.55em:

```
\renewcommand{\@pnumwidth}{3em}
```

\@tocrmarg And the right margin space goes up from 2.55em to 3em; the addition of 1fil makes the section titles typeset raggedright, so that hyphenation will not occur.

```
\renewcommand{\@tocrmarg}{4em plus1fil}
```

3.6 Lower-level sectioning

\subsubsection The `\subsubsection` command is used in bridgehead mode, so needs less space above and below.

```
\renewcommand\subsubsection{%
  \@startsection{subsubsection}{3}{\z@}%
    {-1ex\@plus -.25ex \@minus -.25ex}%
    {1ex \@plus .25ex}%
    {\sffamily\normalsize\bfseries}}
```

3.7 Appendix settings

\appendix Change the way the appendix command works so that appendixes get section-type styling in documentation.

```
\renewcommand\appendix{\par
  \setcounter{section}{0}%
  \setcounter{subsection}{0}%
  \gdef\thesection{\@Alph\c@section}}
```

3.8 TEX and other logos

TEX and LATEX are defined in the LATEX kernel, but most of the others are not. The following definitions are taken from the ltugboat package, used for typesetting the TUGboat journal.

\ConTeXt ConTEXt is a typography and typesetting system meant to provide users easy and consistent access to advanced typographical control (Hagen, 2001).

```
\def\ConTeXt{C\kern-.0333emon\-\kern-.0667em\TeX
  \kern-.0333emt}
```

\tubreflect Borrow the reflection code from TUGboat.

```
\def\tubreflect#1{%
  \@ifundefined{reflectbox}{%
    \PackageError{classpack}%
      {A graphics package must be loaded for \string\XeTeX}%
      {Add the graphicx package to your Preamble}%
  }{% otherwise OK
    \ifdim \fontdimen1\font>0pt
      \raise 1.75ex \hbox{\kern.1em
        \rotatebox{180}{#1}}\kern-.1em
    \else
      \reflectbox{#1}%
    \fi
  }%
}
```

\tubhideheight Borrow the method of hiding the height from TUGboat as well.

```
\def\tubhideheight#1{\setbox0=\hbox{#1}%
  \ht0=0pt \dp0=0pt \box0 }
```

\XeTeX Define XeTeX and XeLaTeX.

```
\DeclareRobustCommand\Xe[1]{\leavevmode
  \tubhideheight{\hbox{X%
    \setbox0=\hbox{\TeX}\setbox1=\hbox{E}%
    \lower\dp0\hbox{\raise\dp1\hbox{%
      \kern-.125em\tubreflect{E}}}%
    \kern-.1667em #1}}}
\def\XeTeX{\Xe\TeX}
```

\XeLaTeX Define XeLaTeX using the existing macros.

```
\def\XeLaTeX{\Xe{\,\LaTeX}}
```

\SMC Define a new small caps for use in BibTeX, and an error message to go with it (from the ltugboat package).

```
\DeclareRobustCommand\SMC{%
  \ifx\@currsize\normalsize\small\else
   \ifx\@currsize\small\footnotesize\else
    \ifx\@currsize\footnotesize\scriptsize\else
     \ifx\@currsize\large\normalsize\else
      \ifx\@currsize\Large\large\else
       \ifx\@currsize\LARGE\Large\else
        \ifx\@currsize\scriptsize\tiny\else
         \ifx\@currsize\tiny\tiny\else
          \ifx\@currsize\huge\LARGE\else
           \ifx\@currsize\Huge\huge\else
            \small\SMC@unknown@warning
 \fi\fi\fi\fi\fi\fi\fi\fi\fi\fi
}
\newcommand\SMC@unknown@warning{\PackageError{classpack}%
  {\string\SMC: nonstandard text font size command -- using
  \string\small}%
  {Check the font size or scaling for \the\@currsize}}
\newcommand\textSMC[1]{{\SMC #1}}
```

\BIBTeX Finally, define BibTeX in various forms.

```
    \def\Bib{%
```

```
  \ifdim \fontdimen1\font>0pt
     B{\SMC\SMC IB}%
  \else
     \textsc{Bib}%
  \fi
}
\def\BibTeX{\Bib\kern-.08em \TeX}
\let\BiBTeX\BibTeX
\let\BIBTeX\BibTeX
```

The flexlogo package

The flexlogo package (under development) will make this section obsolete, as it allows for the complete redefining of the TEX, LATEX, and related logos for non-CM fonts.

3.9 Formatting additions

\CPKvstrut Define a strut that adjusts to the size of type, for use in spacing table headers and footers.

```
\newcommand{\CPKvstrut}{\vrule height1.2em depth.6667ex width0pt}
```

\CPKmenusep Define a macro to format an arrow between documentary menu items. Probably no longer needed now that the menukeys package is available

```
\def\CPKmenusep{\thinspace$\rightarrow$\thinspace\allowbreak}
```

\CPKprestrut Also a strut to precede paragraph cells...

```
\newcommand{\CPKprestrut}{\vrule height1em width0pt}
```

\CPKpoststrut ...and one to follow them.

```
\newcommand{\CPKpoststrut}{\vrule depth.5ex width0pt}
```

\hyphenation Add some hyphenation oddities.

```
\hyphenation{ele-ment ele-ments attri-bute attri-butes
  docu-ment docu-ments primi-tive helico-pter}
```

\descriptionlabel Fix the broken description environment item label. This also gets fixed in the enumitem package so it will probably go from here next version.

```
\renewcommand*\descriptionlabel[1]{%
  \hspace\labelsep\sffamily\bfseries #1}
```

CPKcoref Add the counter to enable the use of `coref` list counters.

```
\newcounter{CPKcoref}
```

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```
%%% pig.dtx
%%% Copyright 2005 M. Y. Name
%%
%% This work may be distributed and/or modified under the
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%% of this license or (at your option) any later version.
%% The latest version of this license is in
%%   http://www.latex-project.org/lppl.txt
%% and version 1.3 or later is part of all distributions of LaTeX
%% version 2005/12/01 or later.
%%
%% This work has the LPPL maintenance status `maintained'.
%%
%% The Current Maintainer of this work is M. Y. Name.
%%
%% This work consists of the files pig.dtx and pig.ins
%% and the derived file pig.sty.
```

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```
%% This work consists of all files listed in manifest.txt.
```

in that place. In the absence of an unequivocal list it might be impossible for the licensee to determine what is considered by you to comprise the Work and, in such a case, the licensee would be entitled to make reasonable conjectures as to which files comprise the Work.

Change History

v0.71
General: First time this was used to document itself: The title element and subtitle element are now subsumed beneath the generated title in the output.. 1

v0.72
General: Wrote internal documentation: Created the classpack.xml template as an example.. 1

v0.73
General: Added readme.xml and db2plaintext.xsl: This implements dynamic README generation.. 1

v0.74
General: Added experimental autopackage: This implements automated package inclusion based on the markup used by the author.. 1

v0.75
General: Added secondary files: Secondary output files possible; reversed usage of role attribute on keywords;. 1

v0.76
General: Modified documentation: Started working on Makefile. . 1

v0.77
General: Removed unwanted definitions: classorpackage. . . 1

v0.78
General: Changed default code color: MacroFont now DarkBlue. 1

v0.79
General: Editorial update: Small corrections. 1

v0.80
General: Moved doc commands from XSLT2: ToC settings and revmarg. 1

v0.81
General: Added more logo commands: XeTeX, XeLaTeX. 1

v0.82
General: Fixed hline bug: Should have been renewcommand not def. 1

v0.9
General: Removed fixltx2e: The code from the fixltx2e package has now been merged into the kernel, so the preload of this package is no longer needed.. . 1

v0.905
General: Enhanced: Added support for XeLaTeX. 1

v0.91
General: Regenerated: Recreated package with new classpack code to create zip file to the CTAN standard. 1

v0.915
General: Merged: Merged default packages with author-requested ones.. 1

v1.0
General: Tidied up the processing and greatly extended documentation: 1) Rewrote almost all the description of how to create the basic XML file; 2) The RFC2119 Note now automatically includes the relevant BibTeX entry in the .bib file (done in the Makefile). 1

v1.01

General: Edited out duplications in documentation: 1) Tidied explanations and documented the markup in more detail; 2) Now using XeLaTeX and biber. 1

v1.02

General: Moved specification for babel to pre-options: 1) The babel package is now pre-specified with the PassOptionsToPackage command, to avoid conflicts with options later; 2) Now using XeLaTeX and biber. . . . 1

v1.025

General: README: Title and identity moved to a template and deleted from readme.xml. 1

v1.03

General: Bundle identifiers: 1) Added a line to the Makefile to pick out the date of the most-recently-updated file and put it in a file called VERSION (suggestion from Petra Rübe-Pugliese at CTAN based on their docs).; 2) Regularised the identity of the version date from a global variable date, rather than working it out each time.. . . . 1

v1.04

General: Reusable code blocks: 1) Added an attribute reuse to the annotation element for use in Appendixes which generate additional LaTeX class or package files, which points at an xml:id attribute on an existing annotation element already used elsewhere so that the same documentation text can be included. Also added an omit attribute to the seglistitem elements in the constraintdef element for class packages which specifies that the relevant package is not required for the additional class or package being generated.; 2) Changed the documentation font to Noto.. . 1

v1.05

General: Maintenance: 1) Updated documentation; 2) Tested additional outputs. . . . 1

v1.06

General: Maintenance release: Rearranged output so that change log and index always get printed. 1

v1.07

General: Minor adaptations to quoted chunks of code: Updated to use XeLaTeX. . . . 1

v1.08

General: Moved RFC2119 warning, and did some minor rewording: 1) Removed RFC2119 warning text from db2dtx.xsl to rfc2119.xml, creating a section to hold it and the bibliography. Rewrote the templates for bibliolist, biblioentry, bibliography, and section/title to accomodate this.; 2) Ongoing updates and explanation. 1

v1.09

General: Skipped the application of headers to appendix files: 1) Files written from the appendix element no longer get the LaTeX headers prepended; 2) The sentinel

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.