The `classpack` \LaTeX{} \texttt{2e} package\textsuperscript{*}

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 (\texttt{.dtx}) format using the \texttt{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.

\texttt{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 \texttt{.dtx}, \texttt{.ins}, and other files, which can be combined into a zip file suitable for submission to CTAN.

\texttt{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 \texttt{classpack-dev} unless you want to develop classes or packages by using \texttt{ClassPack} yourself.

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

\textsuperscript{*}This document corresponds to \texttt{classpack v. 1.19}, dated 2020/05/19.
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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 \TeX 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 Con\TeXt, X\TeX, and X\LaTeX logos (borrowed from the TUGboat style)
7. Fake small caps (also from TUGboat) for the Bib\TeX 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


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 kernel.

The code starts with identity and requirements which are generated automatically as needed by the Doctex system. For details see the \texttt{ltxdoc} package documentation.

\begin{verbatim}
1 \NeedsTeXFormat{LaTeX2e}[2015/01/01]
2 \ProvidesPackage{classpack}[2020/05/19 v1.19
3 Macros for ClassPack documentation]
\end{verbatim}

3.2 Packages required for the package

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

\begin{verbatim}
4 \RequirePackage{graphicx}\%
\end{verbatim}

\texttt{array} Additional column formatting types for tables.

\begin{verbatim}
5 \RequirePackage{array}\%
\end{verbatim}

\texttt{url} Handling of URI formatting.

\begin{verbatim}
6 \RequirePackage{url}\%
\end{verbatim}

\texttt{marginnote} Adds more flexibilitiy to marginal notes.

\begin{verbatim}
7 \RequirePackage[fulladjust]{marginnote}\%
\end{verbatim}

3.3 Index settings

\texttt{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 document other than a .dtx file. No such test is needed for \texttt{columnsep} because it is defined in the \LaTeX kernel.

\begin{verbatim}
8 \@ifundefined{c@IndexColumns}{}{\setcounter{IndexColumns}{2}}
9 \setlength{\columnsep}{3pc}
\end{verbatim}

3.4 Annotation settings

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

\begin{verbatim}
10 \def\MacroFont{\fontencoding{encodingdefault}
11 \ttfamily\fontseries{m}\fontshape{updefault}
12 \small\selectfont\color{DarkBlue}}
\end{verbatim}

\texttt{CPKrevmarg} The default margin width is often not wide enough for long macro names, so in the XSLT3 code in \texttt{db2dtex.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.

\begin{verbatim}
13 \newlength{CPKrevmarg}
14 \setlength{CPKrevmarg}{25mm}
\end{verbatim}

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

\begin{verbatim}
15 \newcommand{CPKrunningecho}[1][]{\leavevmode
16 \marginnote[sloppy\raggedleft\color{LightGrey}\hspace{Opt}\#1]%
17 \hspace{Opt}\#1}%
18 }
19 \let\marginfont\ttfamily
\end{verbatim}
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

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

\renewcommand\subsection{% 
\@startsection{subsection}{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 \texttt{tugboat} package, used for typesetting the TUGboat journal.

\texttt{Con\TeX{}} Con\TeX{}t is a typography and typesetting system meant to provide users easy and consistent access to advanced typographical control (Hagen, 2001).

\texttt{\tubreflect} Borrow the reflection code from TUGboat.

\texttt{\tubhideheight} Borrow the method of hiding the height from TUGboat as well.
\def\tubhideheight#1{\setbox0=\hbox{#1}\ht0=0pt \dp0=0pt \box0 }

**\LaTeX** Define $X_\TeX$ and $X_\LaTeX$.

\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 $X_\HATEX$ 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 \texttt{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\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{%
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 \texttt{enumitem} package so it will probably go from here next version.

\begin{verbatim}
96  \renewcommand*{\descriptionlabel[1]}{\
97  \hspace{\labelsep}\sffamily\bfseries #1}
\end{verbatim}

\texttt{CPKcoref}  Add the counter to enable the use of \texttt{coref} list counters.

\begin{verbatim}
98  \newcounter{CPKcoref}
\end{verbatim}
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```latex
% pig.dtx
% Copyright 2005 M. Y. Name
%
% This work may be distributed and/or modified under the
% conditions of the LaTeX Project Public License, either version 1.3
% 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.
```

Given such a notice and statement in a file, the conditions given in this license document would apply, with the ‘Work’ referring to the three files pig.dtx, pig.ins, and pig.sty (the last being generated from pig.dtx using pig.ins), the ‘Base Interpreter’ referring to any ‘\LaTeX-Format’, and both ‘Copyright Holder’ and ‘Current Maintainer’ referring to the person M. Y. Name.

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Several clauses of the LPPL specify means to provide reliability and stability for the user community. They therefore concern themselves with the case that a Derived Work is intended to be used as a (compatible or incompatible) replacement of the original Work. If this is not the case (e.g., if a few lines of code are reused for a completely different task), then clauses 6b and 6d shall not apply.

### A.6.5 Important Recommendations

#### A.6.5.1 Defining What Constitutes the Work

The LPPL requires that distributions of the Work contain all the files of the Work. It is therefore important that you provide a way for the licensee to determine which files
constitute the Work. This could, for example, be achieved by explicitly listing all
the files of the Work near the copyright notice of each file or by using a line such
as:

```%
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 dh2plaintext.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 X\LaTeX{}E and biber.

v1.02
General: Moved specification for babel to pre-options: 1) The babel package is now pre-specified with the \texttt{PassOptionsToPackage} command, to avoid conflicts with options later; 2) Now using X\LaTeX{}E and biber.

v1.025
General: README: Title and identity moved to a template and deleted from readme.xml.

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 \texttt{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.

v1.04
General: Reusable code blocks: 1) Added an attribute reuse to the annotation element for use in Appendices which generate additional \LaTeX{} class or package files, which points at an \texttt{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 \texttt{seclistitem} elements in the \texttt{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.

v1.05
General: Maintenance: 1) Updated documentation; 2) Tested additional outputs.

v1.06
General: Maintenance release: Rearranged output so that change log and index always get printed.

v1.07
General: Minor adaptations to quoted chunks of code: Updated to use X\LaTeX{}E.

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 \texttt{bibilolist}, \texttt{biblioentry}, \texttt{bibliography}, and \texttt{section/title} to accomodate this; 2) Ongoing updates and explanation.

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
value for comments in scripts
now reflects the double hash;
3) Added the remark element
to db2md.xsl (with plain
para); 4) Ongoing updates and
explanation. .................. 1

v1.10
General: bold to be plain bold,
not bold italic; 3) Changed
blockquotes to blue in the
PDF, added recognition of
xlink:href to give source ack as
URI. ....................... 1

v1.11
General: : 1) Fixed numerous
bugs in handling of listings; 2)
Moved DTD annotations to
doc as chapter while logic for
appendixes not working
properly; 3) Finished PE
chunking of db2dtx.xsl and
doctexbook-master.dtd; 4)
Finished writing the chunk
program. ..................... 1

v1.12
General: : 1) Started tidying up
sentinel and fence; 2) Involves
rationalising the use of chapter
and appendix within part; 3)
parameterised a makesentinel,
maketermsentinel, and
makefence in sect1 but they
don’t get called because of [2]
above; 4) Finished writing the
chunk program. ................ 1

v1.13
General: : 1) Created
commentchar and
termcommentchar functions;
2) Untested invocation in
sect1 template. ............. 1

v1.14
General: : 1) Updated the

Markdown driver for the
README to produce code
that displays correctly in the
Markdown Viewer 3.6
extension for Chrome and
conforms to the CTAN rules.;
2) Added details of ClassPack
to the MD file header; 3) Some
reorganisation of topics; 4)
More annotation-level
documentation on the XSLT3
code. ...................... 1

v1.15
General: : 1) Started massive
documentation effort on
XSLT; 2) Order of templates
changed in XSLT. ............ 1

v1.16
General: : 1) Documentation
ongoing; 2) Added detection of
options on url and xcolor; 3)
Changed order of packages in
prepost.xml to prevent option
clashes. ..................... 1

v1.17
General: : 1) Documentation
nearly finished; 2) Added
remaining XSLT files and
scripts; 3) Recoded the
distinction between
appendixes in the code part
and chapters in the files part.. 1

v1.18
General: : 1) Split project into
classpack and classpack-dev;
2) 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; 3) Fixed bug
in makechapapp where it
failed to add the filetype
before substringing the full
name of the document. . . . . 1

v1.19

General: 1) Prefixed local
variables with CPK; 2) CTAN
candidate. . . . . . . . . . . 1
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