The Treasure Chest

These are the new packages posted to CTAN (`ctan.org`) from April–August 2022. Descriptions are based on the announcements and edited for extreme brevity.

Entries are listed alphabetically within CTAN directories. More information about any package can be found at `ctan.org/pkg/`*pkgname*.

A few entries which the editors subjectively believe to be especially notable are starred (*); of course, this is not intended to slight the other contributions.

We hope this column helps people access the vast amount of material available through CTAN and the distributions. See also `ctan.org/topic`. Comments are welcome, as always.

⋄ Karl Berry
https://tug.org/TUGboat/Chest

biblio

* biber-ms in biblio
   Multi-script Biber.

fonts

simpleicons in fonts
   Simple Icons font support.
srbtiks in fonts
   Stix2 support for Serbian and Macedonian italics.
symbats3 in fonts
   Support for the Symbats3 OpenType font.
yfonts-otf in fonts
   OpenType versions of Yannis Haralambous's Old German fonts.

graphics

customdice in graphics/pgf/contrib
   Draw customizable dice.
fancyqr in graphics/pgf/contrib
   Create fancy QR codes with TikZ.
figput in fonts
   Create interactive or static figures in LaTeX.
tikz-ext in graphics/pgf/contrib
   A collection of libraries for PGF/TikZ.
tikzfill in graphics/pgf/contrib
   TikZ libraries for filling with images and patterns.
tikzpingus in graphics/pgf/contrib
   Penguins.

macros/generic

expex-acro in macros/generic
   Wrapper for `expex` with support for glossing abbreviations.
lt3luabridge in macros/generic
   Execute Lua code in any TeX engine that exposes the shell.

macros/latex/contrib

asternote in macros/latex/contrib
   Annotation symbols enclosed in square brackets and marked with an asterisk.
* biblatex-ms in macros/latex/contrib
   Multi-script BibLaTeX; requires `biber-ms`.
chinesechess in macros/latex/contrib
   Typeset Chinese chess with `l3draw`.
circledtext in macros/latex/contrib
   Create circled text.
cprotectinside in macros/latex/contrib
   Use `cprotect`, arbitrarily nested.
csassignments in macros/latex/contrib
   Support for computer science assignments.
dvisirule in macros/latex/contrib
   Superimpose the covered hline and vline in a LaTeX `tabular` or `colortbl` environment.
familytree in macros/latex/contrib
   Draw family trees.
fixdif in macros/latex/contrib
   Typesetting differential operators.
flexipage in macros/latex/contrib
   Flexible page geometry with marginalia.
hereapplies in macros/latex/contrib
   Cross-linking applications of concepts.
hideanswer in macros/latex/contrib
   Toggle printing of answers.
hvextern in macros/latex/contrib
   Writing and reading of external source code, and inserting the output.
inlinelabel in macros/latex/contrib
   Assign equation numbers to inline equations.
jpneduenumerate in macros/latex/contrib
   Enumerative expressions in Japanese education.
jpnedumathsymbols in macros/latex/contrib
   Mathematical equation representation in Japanese education.
kfupm-math-exam in macros/latex/contrib
   Produce homework, quiz and exam papers.
langnames in macros/latex/contrib
   Name languages and their genetic affiliations consistently.

lt3rawobjects in macros/latex/contrib
Declare and allocate LaTeX3 objects like C structures.

magicwatermark in macros/latex/contrib
Watermarks, based on everypage and TikZ.

mathsemantics in macros/latex/contrib
Semantic math commands in LaTeX.

multifootnote in macros/latex/contrib
Multiple numbers for the same footnote.

multiple-choice in macros/latex/contrib
Multiple-choice questions.

ndsu-thesis-2022 in macros/latex/contrib
North Dakota State University support, update for 2022.

postnotes in macros/latex/contrib
Endnotes for LaTeX.

precattl in macros/latex/contrib
Write code containing tokens with unusual catcodes.

prettytok in macros/latex/contrib
Pretty-print token list.

proflabo in macros/latex/contrib
Draw laboratory equipment.

rescansync in macros/latex/contrib
Execute saved code to typeset text while preserving SyncTeX information.

saveenv in macros/latex/contrib
Save environment content verbatim.

scripture in macros/latex/contrib
Typesetting Bible quotations.

sidenotesplus in macros/latex/contrib
Place material in margins.

simples-matrices in macros/latex/contrib
Define matrices by given list of values.

thermodynamics in macros/latex/contrib
Macros for multicomponent thermodynamics documents.

tkzexample in macros/latex/contrib
Package for documentation of tkz-* packages.

wrapstuff in macros/latex/contrib
Wrapping text around stuff, using new LaTeX hooks.

m/l/c/beamer-contrib/themes

beamerthemeamurmaple in m/l/c/b-c/themes
A new modern beamer theme.

beamertheme-tcolorbox in m/l/c/b-c/themes
Inner beamer theme that reproduces standard beamer blocks.

macros/latex/required

latex-lab in macros/latex/required
Development pre-release. See LaTeX news installment in this issue.

macros/luatex/latex

ligtype in macros/luatex/latex
Suppress inappropriate ligatures, for German by default.

luamathalign in macros/luatex/latex
Flexible alignments in amsmath environments.

luaquotes in macros/luatex/latex
Smart setting of quotation marks.

showhyphenation in macros/luatex/latex
Show hyphenation points.

showkerning in macros/luatex/latex
Show kerns.

spacekern in macros/luatex/latex
Kerning between words and against whitespace.

macros/plain

transparent-io in macros/plain/contrib
Show for approval the filenames used in \input, \openin, or \openout. See article in *TUGboat* 43:1.

macros/unicodetex/latex

swungdash in macros/unicodetex/latex
Swung dash (U+2053), made by transforming the tilde.

unisc in macros/unicodetex/latex
Unicode small caps with Lua/XeLaTeX.

macros/xetex/latex

exam-zh in macros/xetex/latex
LaTeX template for Chinese exams.

hfutthesis in macros/xetex/latex
LaTeX thesis template for Hefei University of Technology.

xduts in macros/xetex/latex
Xidian University TeX suite.

support

texlive-dummy-fedora in support
Dummy TeX Live RPM for use with Fedora and similar distributions.