



The Treasure Chest

These are the new packages posted to CTAN (ctan.org) from October 2023–April 2024. 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.

◇ Karl Berry
<https://tug.org/TUGboat/Chest>
<https://ctan.org/topic>

biblio

chicagolinks in **biblio**

Annotated bibliographies including DOI links.

iran-bibtex in **biblio/bibtex/contrib**

Implementation of the *Iran Manual of Style Citation Guide* for **BIB_TE_X**.

fonts

junicodevf in **fonts**

Variable font family for mediaevalists. (See article on pp. 12–17.)

lato-math in **fonts**

Lato-based OpenType math font.

ysabeau in **fonts**

Garamond-like design with a low-contrast sans serif.

graphics

pmdraw in **graphics**

Draw elements of the partition monoids.

graphics/pgf/contrib

argumentation in **graphics/pgf/contrib**

Create abstract argumentation frameworks.

pictochrono in **graphics/pgf/contrib**

Inline chronometer pictograms, with durations.

polyhedra in **graphics/pgf/contrib**

A *TikZ* package for drawing polyhedra.

thematicpuzzle in **graphics/pgf/contrib**

Add horizontal banners in a puzzle style.

tikzdotncross in **graphics/pgf/contrib**

Defining/marking coordinates and crossing paths with jumps.

[graphics/pgf/contrib/tikzdotncross](https://ctan.org/graphics/pgf/contrib/tikzdotncross)

`tikzquads` in `graphics/pgf/contrib`
Shapes designed to be used with CircuiTiKZ.

`trivialpursuit` in `graphics/pgf/contrib`
Generic Trivial Pursuit board game.

`twotwogame` in `graphics/pgf/contrib`
Visualize 2×2 normal-form games.

info

`typstfun` in `info`
Typst function equivalents of L^AT_EX commands.

macros/generic

`calcfraction` in `macros/generic`
Calculate value of an expression containing fractions.

macros/latex/contrib

`affilauthor` in `macros/latex/contrib`
Tag author and affiliation information in a key-value style.

`amnestyreport` in `macros/latex/contrib`
Class for Amnesty International.

`beautynote` in `macros/latex/contrib`
Book design with several chapter and page styles.

`chemformula-ru` in `macros/latex/contrib`
Using `chemformula` with `babel-russian`.

`cidarticle` in `macros/latex/contrib`
Class for *Commentarii informaticae didacticae*.

`cleveref-forward` in `macros/latex/contrib`
Forward-referencing functionality for `cleveref`.

`cjs-racs-article` in `macros/latex/contrib`
Class for *The Canadian Journal of Statistics*.

`coloredbelts` in `macros/latex/contrib`
Insert colored belts as vector images.

`coloredtheorem` in `macros/latex/contrib`
A colorful boxed theorem environment.

`contract` in `macros/latex/contrib`
Typeset formalized legal documents such as contracts, statutes, etc.

`cs-techrep` in `macros/latex/contrib`
Technical report style, similar to IEEE.

`dashrulex` in `macros/latex/contrib`
Draw dashed rules.

`decimalcomma` in `macros/latex/contrib`
Comma for decimal numbers.

`didactic` in `macros/latex/contrib`
Tools for writing teaching material: semantic environments, slides and notes from the same source, code and output side by side, etc.

`macros/latex/contrib/didactic`

`didec` in `macros/latex/contrib`
Fixed-point arithmetic with two decimal places, for financial transactions.

`fadingimage` in `macros/latex/contrib`
Full width fading pictures at the top or bottom of a page.

`fontscale` in `macros/latex/contrib`
Flexible interface for setting font sizes.

`freealign` in `macros/latex/contrib`
Align math formulas in different lines.

`genealogy-profiles` in `macros/latex/contrib`
Genealogical profiles for L^AT_EX.

`heria` in `macros/latex/contrib`
Class for Horizon Europe RIA and IA grant proposals. (See article on pp. 59–64.)

`iararia` in `macros/latex/contrib`
Class for IARIA scholarly publications, including citation style.

`iararia-lite` in `macros/latex/contrib`
IARIA support except for citation style.

`ipsum` in `macros/latex/contrib`
Insert multilingual placeholder text.

`jsonparse` in `macros/latex/contrib`
Parse JSON data from files or strings into token variables.

`latex2pydata` in `macros/latex/contrib`
Write data to file in Python literal format.

`litebook` in `macros/latex/contrib`
Fresh cover and chapter design for books.

`litesolution` in `macros/latex/contrib`
Light design for solutions of test papers.

`litetable` in `macros/latex/contrib`
Class schedules with colorful course blocks.

`medmath` in `macros/latex/contrib`
Improve the `mediummath` option in `nccmath`.

`nameauth` in `macros/latex/contrib`
Name authority mechanism for consistency in body text and index.

`notebeamer` in `macros/latex/contrib`
Template for presentations on notepaper.

`odesandpdes` in `macros/latex/contrib`
Optimizing workflow involving odes and pdes.

`pdfannotations` in `macros/latex/contrib`
Annotate PDF slides.

`pgfkeysearch` in `macros/latex/contrib`
Find keys in a given `pgfkeys` path recursively, unlike `pgfkeysvalueof`.

`pynotebook` in `macros/latex/contrib`
Present code, along with execution, as in a Jupyter notebook.

`q-and-a` in `macros/latex/contrib`
Typesetting Q&A-style conversations.

randexam in `macros/latex/contrib`

Make an exam paper and randomized variants.

regulatory in `macros/latex/contrib`

Flexible drafting of legal documents, especially in Dutch.

repththeorem in `macros/latex/contrib`

Replication of theorem environments, including across documents.

responsive in `macros/latex/contrib`

Responsive design methods for \LaTeX .

sfee in `macros/latex/contrib`

\LaTeX class for the *Smart Factory and Energy Efficiency* journal.

sim-os-menus in `macros/latex/contrib`

Insert a ‘terminal’ or ‘context menu’ or ‘viewer’ image, as from an OS.

sjtutex in `macros/latex/contrib`

\LaTeX classes for Shanghai Jiao Tong University.

tblr-extras in `macros/latex/contrib`

Libraries for `tabularray` for caption and `babel` compatibility.

thmlist in `macros/latex/contrib`

Adding new theorem-like environments.

tikzquests in `macros/latex/contrib`

A parametric questions’ repository framework.

tutodoc in `macros/latex/contrib`

Typeset tutorial-like documentation.

udepcolor in `macros/latex/contrib`

University of Piura colors.

undar-digitacion in `macros/latex/contrib`

Musical fingering diagrams for flute, recorder, sax, et al.

useclass in `macros/latex/contrib`

Load classes as packages; developed for `l3doc`.

vectorlogos in `macros/latex/contrib`

Some logos in vector format, mostly \TeX -related.

verifycommand in `macros/latex/contrib`

Verify definitions are unchanged, such as before patching.

weiqi in `macros/latex/contrib`

Use \LaTeX 3 to typeset Weiqi (Go).

xkeymask in `macros/latex/contrib`

Extension of `xkeyval` to dynamically (un)mask options.

m/l/c/beamer-contrib/themes**beamerthemeconcrete** in `m/l/c/b-c/themes`

Collection of flat beamer themes.

moloch in `m/l/c/b-c/themes`

Updated version of the Metropolis theme.

macros/luatex/latex**autotype** in `macros/luatex/latex`

Automatic language-specific typography: weighted hyphenation, et al., for German.

gitinfo-lua in `macros/luatex/latex`

Display `git` project information.

ideavault in `macros/luatex/latex`

Idea (concept) management, e.g., for handbooks.

longmath in `macros/luatex/latex`

Nested delimiter groups extending over multiple array cells or lines.

lua-placeholders in `macros/luatex/latex`

Specifying external values for insertion into templates. (See article on pp. 65–76.)

macros/unicodetex/latex**emotion** in `macros/unicodetex/latex`

Make emojis easier to typeset.

macros/xetex/latex**quran-en** in `macros/xetex/latex`

English translation extension to the `quran` package.

quran-id in `macros/xetex/latex`

Indonesian translation extension to `quran`.

support***l3sys-query** in `support`

System queries for \LaTeX using Lua.

latex-dependency-grapher in `support`

Java program to visualize the dependencies of \LaTeX files, using `GraphViz`.

ppmcheckpdf in `support`

Convert PDF to PNG and compare PNG files after `l3build`.

texblend in `support`

Compile segments of \LaTeX documents.