



The Treasure Chest

These are the new packages posted to CTAN (ctan.org) from October 2022–April 2023. 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

`bibcop` in `biblio/bibtex/utils`
 Style checker for `.bib` files.

fonts

`euler-math` in `fonts`
 OpenType implementation of Zapf’s Euler.
`gelasio` in `fonts`
 Support for Eben Sorkin’s Gelasio fonts, metric-compatible with Georgia.

graphics

`emo` in `graphics`
 Emoji support for all L^AT_EX engines.

graphics/metapost/contrib/macros

`hershey-mp` in `graphics/metapost/contrib/macros`
 Support for Hershey font file format.
`mpchess` in `graphics/metapost/contrib/macros`
 Draw chess boards and positions.

graphics/pgf/contrib

`fenetrecas` in `graphics/pgf/contrib`
 Display CAS examples.
`outilsgeomtikz` in `graphics/pgf/contrib`
 Typeset geometry tools (compass, ...).
`pixelarttikz` in `graphics/pgf/contrib`
 Generate pixel art.
`quickreaction` in `graphics/pgf/contrib`
 Typeset chemical reactions.
`sacsymb` in `graphics/pgf/contrib`
 “Sacred symbols” used with the Orch OR theory of consciousness.
`scrabble` in `graphics/pgf/contrib`
 Commands for Scrabble boards.
`tangramtikz` in `graphics/pgf/contrib`
 Tangram puzzles.

`tikz-mirror-lens` in `graphics/pgf/contrib`
 Spherical mirrors and lenses.
`tikz-nfold` in `graphics/pgf/contrib`
 Triple, quadruple, and n -fold paths.
`tikzviolinplots` in `graphics/pgf/contrib`
 Draw violin plots from data.

graphics/pstricks/contrib

`egpeirce` in `graphics/pstricks/contrib`
 Draw Peirce’s existential graph.
`pst-flags` in `graphics/pstricks/contrib`
 Draw country flags.

info

*`drawing-with-metapost` in `info`
 Example-based document for drawing technical diagrams with MetaPost; intermediate to advanced.
 *`tlc3-examples` in `info/examples`
 All examples from *The L^AT_EX Companion*, third edition. See excerpt in this issue (pp. 77–86). To order the book, see tug.org/1/tlc3.

macros/generic

`crossrefenum` in `macros/generic`
 Smart handling of cross-reference ranges; supports L^AT_EX and ConT_EXt.
`expkv-bundle` in `macros/generic`
 Expandable `key=val` implementation and friends.
`pdfmsym` in `macros/generic`
 More math symbols, including arbitrarily-extendable accents, arrows, etc.

macros/latex/contrib

`cleveref-usedon` in `macros/latex/contrib`
 Adds forward referencing to `cleveref`.
`cvss` in `macros/latex/contrib`
 CVSS scores for IT vulnerabilities.
`elteiktdk` in `macros/latex/contrib`
 Thesis template for Hungarian TDK conferences.
`exam-lite` in `macros/latex/contrib`
 Simple exam template.
`fistrum` in `macros/latex/contrib`
 150 paragraphs of Lorem Fistrum comedian phrases.
`gfdl` in `macros/latex/contrib`
 Use the GNU Free Documentation License (GFDL).
`gradient-text` in `macros/latex/contrib`
 Decorate text with linear gradient colors.
`hep-reference` in `macros/latex/contrib`
 Adjustments for publications in high energy physics.
`hfutexam` in `macros/latex/contrib`
 Exam class for the Hefei University of Technology.
`hwemoji` in `macros/latex/contrib`
 Unicode emoji support for pdfL^AT_EX with sequences.
`ibrackets` in `macros/latex/contrib`
 Intelligent brackets for open intervals.

macros/latex/contrib/ibrackets

`jeuxcartes` in `macros/latex/contrib`
Playing cards from poker or French tarot decks.

`jourcl` in `macros/latex/contrib`
Universal cover letter for journal submissions.

`jwjournal` in `macros/latex/contrib`
Writing personal journals.

`korigamik` in `macros/latex/contrib`
Support for academic projects and lab reports.

`lgrmath` in `macros/latex/contrib`
Use LGR-encoded fonts in math mode.

`maze` in `macros/latex/contrib`
Generate random mazes.

`naive-ebnf` in `macros/latex/contrib`
Typeset EBNF from a plain text notation.

`namedtensor` in `macros/latex/contrib`
Macros for named tensor notation.

`osda` in `macros/latex/contrib`
Open-Source Design Automation proceedings.

`overarrows` in `macros/latex/contrib`
Custom extensible arrows over math expressions.

* `pagelayout` in `macros/latex/contrib`
Declarative desktop publishing with L^AT_EX.

`pangram` in `macros/latex/contrib`
L^AT_EX package for testing fonts.

`physics2` in `macros/latex/contrib`
Easier math typesetting.

`pythonimmediate` in `macros/latex/contrib`
Library to run Python code.

`recorder-fingering` in `macros/latex/contrib`
Typeset recorder fingering diagrams.

`resmes` in `macros/latex/contrib`
The measure restriction symbol.

`resolysteme` in `macros/latex/contrib`
Operate on linear systems with `xint` or `pyluatex`.

`songproj` in `macros/latex/contrib`
Beamer slideshows with song lyrics.

`tangocolors` in `macros/latex/contrib`
Use colors from the Tango color palette.

`tidyres` in `macros/latex/contrib`
Multi-column formal resumes.

`tramlines` in `macros/latex/contrib`
Lines above and below titles, for legal documents in the UK.

`ukbill` in `macros/latex/contrib`
Typeset UK legislation.

`uol-physics-report` in `macros/latex/contrib`
Lab reports at the U. of Oldenburg.

`uvaletter` in `macros/latex/contrib`
Unofficial letterhead for the U. of Amsterdam.

`writeongrid` in `macros/latex/contrib`
Grid creation and text positioning on the lines.

`zennote` in `macros/latex/contrib`
Streamline note-taking process.

`macros/latex/contrib/zennote`

macros/latex/contrib/babel-contrib
`babel-lithuanian` in `m/l/c/babel-contrib`
Babel support for Lithuanian.

macros/luatex/generic
`blopentype` in `macros/luatex/generic`
Basic Lua_T_EX OpenType handler.

`evangelion-jfm` in `macros/luatex/generic`
Font metric package supporting many advanced CJK features.

`lparse` in `macros/luatex/generic`
Lua module for parsing key-value options.

`lua-tinyyaml` in `macros/luatex/generic`
Tiny YAML (subset) parser in pure Lua.

`tsvtemplate` in `macros/luatex/generic`
Apply templates to tsv (tab-separated value) files.

macros/luatex/latex
* `luacas` in `macros/luatex/latex`
Computer algebra and symbolic computation system within Lua_T_EX. See article in this issue (pp. 94–98).

`luacomplex` in `macros/luatex/latex`
Perform operations on complex numbers.

`luagcd` in `macros/luatex/latex`
GCD computation.

`lualinalg` in `macros/luatex/latex`
Perform linear algebra operations.

`luamaths` in `macros/luatex/latex`
Perform standard math operations.

`luamodulartables` in `macros/luatex/latex`
Generate modular addition/multiplication tables.

`luaoptions` in `macros/luatex/latex`
Option handling for Lua_T_EX packages.

`luaset` in `macros/luatex/latex`
Perform set operations.

`scikgtex` in `macros/luatex/latex`
Annotate contributions using XMP metadata.

macros/unicodetex/latex
`alchemist` in `macros/unicodetex/latex`
Typeset alchemy and astrological symbols from Unifont

macros/xetex/plain
`unimath-plain-xetex` in `macros/xetex/plain`
OpenType math support in plain X_YT_EX.

support
`digestif` in `support`
Editor plugin and language for L^AT_EX, plain T_EX, ConT_EXt and Texinfo.

* `texfindpkg` in `support`
Install T_EX packages via filenames or command/environment names. Supports TL and MiK_T_EX.