



## The Treasure Chest

These are the new packages posted to CTAN ([ctan.org](http://ctan.org)) from April–September 2021. 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](http://ctan.org/pkg/pkgname).

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

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

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### biblio

**apalike-ejor** in `biblio/bibtex/contrib`  
 BIB $\TeX$  style for *European Journal of Operational Research*.  
**newcastle-bst** in `biblio/bibtex/contrib`  
 BIB $\TeX$  support for Harvard at Newcastle style.

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### fonts

**aboensis** in `fonts`  
 Late medieval OpenType cursive font.  
**musixtex-fonts** in `fonts`  
 Fonts used by Musix $\TeX$ .

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### graphics

**byo-twemojis** in `graphics/pgf/contrib`  
 Build your own Twemojis by stacking TikZ paths.  
**cartonaugh** in `graphics/pgf/contrib`  
 Draw Karnough maps with up to six variables.  
**coffeestains** in `graphics/pgf/contrib`  
 Save time by printing coffee stains directly on the page instead of adding them manually.  
**easing** in `graphics/pgf/contrib`  
 A collection of easing functions for PGF.  
**minim-hatching** in `graphics`  
 Creating tiling patterns with `minim-mp`.  
**nndraw** in `graphics/pgf/contrib`  
 Draw neural networks.  
**pdficons** in `graphics/pgf/contrib`  
 Draw process flow diagrams in chemical engineering.  
**strands** in `graphics/pgf/contrib`  
 Draw objects from strands, such as permutations.  
**tikz-bricks** in `graphics/pgf/contrib`  
 Drawing customizable bricks with TikZ.  
**tikz-swigs** in `graphics/pgf/contrib`  
 Split elliptical nodes horizontally or vertically.  
**toneval** in `graphics/pgf/contrib`  
 Visualize tone value patterns.

`graphics/pgf/contrib/toneval`

[doi.org/10.47397/tb/42-2/tb131chest](https://doi.org/10.47397/tb/42-2/tb131chest)

**worldflags** in `graphics/pgf/contrib`  
 The national flags of the world, in TikZ.  
**xistercian** in `graphics/pgf/contrib`  
 Cistercian numerals in L $\TeX$ , using TikZ.

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### info

**basiclatex-ru** in `info/russian`  
 An introduction to L $\TeX$ , in Russian.  
**tlmgr-intro-zh-cn** in `info`  
 Chinese translation of the `tlmgr-basics` document.  
**visualfaq-fr** in `info`  
 FAQ L $\TeX$  visuelle francophone.

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### language

**bangla** in `language/bengali`  
 Comprehensive L $\TeX$  package for Bangla.

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### macros/generic

**texdimens** in `macros/generic`  
 Conversion of  $\TeX$  dimensions to decimals.  
**wichura-table** in `macros/generic`  
 TaBLE macros for (L $\TeX$ ), now under the LPPL.

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### macros/latex/contrib

**acrotex-js** in `macros/latex/contrib`  
 Common JavaScript files used by acrotex et al.  
**bjfuthesis** in `macros/latex/contrib`  
 Thesis class for Beijing Forestry University.  
**bilingualpages** in `macros/latex/contrib`  
 Typeset two columns in parallel.  
**bmstu-iu8** in `macros/latex/contrib`  
 Class for IU8 reports at Bauman Moscow State Technical University.  
**codehigh** in `macros/latex/contrib`  
 Highlight code using `l3regex` or LPEG.  
**crumbs** in `macros/latex/contrib`  
 Add navigation path to the page header.  
**docassembly** in `macros/latex/contrib`  
 JavaScript for Acrobat Pro with any workflow.  
**etl** in `macros/latex/contrib`  
 Expandable token list operations.  
**ffcode** in `macros/latex/contrib`  
 Fixed-font code blocks using `minted` and `tcolorbox`.  
**gamebooklib** in `macros/latex/contrib`  
 Set numbered entries in shuffled order.  
**geradwp** in `macros/latex/contrib`  
 Document class for the *Cahiers du GERAD* series.  
**graphicscache** in `macros/latex/contrib`  
 Cache `\includegraphics` calls.  
**href-ul** in `macros/latex/contrib`  
 Underline hyperlinks as on the web.  
**huawei** in `macros/latex/contrib`  
 Template for Huawei company documents.  
**hvglogos** in `macros/latex/contrib`  
 $\TeX$ -related names as logos, extending `hologo`.

**iexec** in `macros/latex/contrib`  
Input the output from shell commands.

**ifallfalse** in `macros/latex/contrib`  
Compare a string against a set of other strings.

**kdpcover** in `macros/latex/contrib`  
Covers for books published with Kindle Direct.

**keyparse** in `macros/latex/contrib`  
Define and evaluate key-based replacement rules.

**lambdax** in `macros/latex/contrib`  
Use lambda expressions within  $\LaTeX$ .

**macrolist** in `macros/latex/contrib`  
List operations for  $\LaTeX 2\epsilon$ .

**mecaso** in `macros/latex/contrib`  
Formulas frequently used in rigid body mechanics.

**mlc** in `macros/latex/contrib`  
Add `\makelabels` feature to KOMA-Script.

**nchairx** in `macros/latex/contrib`  
Mathematical physics macros from chair X of Würzburg University.

**pgfmath-xfp** in `macros/latex/contrib`  
Define `pgfmath` functions using `xfp`.

**palette** in `macros/latex/contrib`  
Swappable palettes for colors and symbols.

**projlib** in `macros/latex/contrib`  
Tools to simplify writing  $\LaTeX$  documents.

**scrambledenvs** in `macros/latex/contrib`  
Scrambled environments, e.g., randomized hints.

**smart-eqn** in `macros/latex/contrib`  
Automatic math symbol styling.

**spbmark** in `macros/latex/contrib`  
Customize superscript and subscript positioning, both text and math.

**styledcmd** in `macros/latex/contrib`  
Handling multiple versions of user-defined macros.

**tiscreen** in `macros/latex/contrib`  
Mimic screen of older Texas Instruments calculators.

**tabularray** in `macros/latex/contrib`  
Typeset tabulars and arrays with  $\LaTeX 3$ .

**texsurgery** in `macros/latex/contrib`  
 $\LaTeX$  companion to Python project `texsurgery`.

**to-be-determined** in `macros/latex/contrib`  
Highlight text passages that need further work.

**uni-titlepage** in `macros/latex/contrib`  
Universal titlepages, configurable and predefined.

**zref-check** in `macros/latex/contrib`  
Flexible cross-references with contextual checks based on `zref`.

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### `macros/latex/contrib/beamer-contrib/themes`

**thubeamer** in `m/l/c/b-c/themes`  
`beamer` theme for Tsinghua University.

**beamertheme-simpledarkblue** in `m/l/c/b-c/themes`  
Template for a simple presentation.

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### `macros/latex/contrib/biblatex-contrib`

**biblatex-cv** in `m/l/c/biblatex-contrib`  
Create a CV from  $\BIB\TeX$  files.

**biblatex-lncs** in `m/l/c/biblatex-contrib`  
 $\BIB\TeX$  style for the *Springer Lecture Notes in Computer Science* series.

**biblatex-spbasic** in `m/l/c/biblatex-contrib`  
 $\BIB\TeX$  style for Springer's journals.

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### `macros/luatex/generic`

**minim** in `macros/luatex/generic`  
Modern plain format for the  $\Lua\TeX$  engine.

**minim-math** in `macros/luatex/generic`  
OpenType math integration into plain  $\Lua\TeX$ .

**minim-mp** in `macros/luatex/generic`  
`mplib` (MetaPost) integration into plain  $\Lua\TeX$ .

**minim-pdf** in `macros/luatex/generic`  
Low-level PDF/A integration into plain  $\Lua\TeX$ .

**minim-xmp** in `macros/luatex/generic`  
Embed XMP metadata in PDF with plain  $\Lua\TeX$ .

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### `macros/luatex/latex`

**pyluatex** in `macros/luatex/latex`  
Execute Python code on the fly in  $\Lua\LaTeX$ .

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### `macros/luatex/optex`

**pdfextra** in `macros/luatex/optex`  
Extra PDF features for  $\Op\TeX$ .

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### `macros/unicodetex/latex`

**fontsetup-nonfree** in `macros/unicodetex/latex`  
`fontsetup` support for nonfree fonts;  
available from <https://contrib.texlive.info>.

**inputnormalization** in `macros/unicodetex/latex`  
Wrapper for  $\Xe\TeX$ / $\Lua\TeX$  input normalization

**nwafuthesis** in `macros/unicodetex/latex`  
Northwest A&F University (China) theses.

**tipauni** in `macros/unicodetex/latex`  
Unicode characters from TIPA commands.

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### `macros/xetex/latex`

**arabic-book** in `macros/xetex/latex`  
An Arabic book class for  $\Xe\LaTeX$ .

**book-of-common-prayer** in `macros/xetex/latex`  
Typeset liturgical documents in the style of the 1979 *Book of Common Prayer*.

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### support

**optexcount** in `support`  
Python script to count words in  $\Op\TeX$  documents.

`support/optexcount`