



## The Treasure Chest

This is a list of selected new packages posted to CTAN (<http://ctan.org>) from August to October 2012, with descriptions based on the announcements and edited for brevity.

Entries are listed alphabetically within CTAN directories. A few entries which the editors subjectively believed to be of especially wide interest or otherwise notable are starred; of course, this is not intended to slight the other contributions.

CTAN remains as vibrant and important to the  $\text{\TeX}$  community as it has ever been, but the *TUGboat* editors have received no feedback on this column in many years, and electronic notifications of CTAN updates are now widespread and (of course) much more timely. So, if you find this column useful, please drop us a line; otherwise, we will likely drop it in future issues.

- ◇ Karl Berry  
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<http://tug.org/ctan.html>

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### biblio

- francais-bst** in `biblio/bibtex/contrib`  
Two `natbib`-compatible styles for standard French bibliography typesetting.
- mkbib** in `biblio/bibtex/utils`  
GTK+  $\text{\BibTeX}$  bibliography creator.

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### fonts

- biolinum-type1** in `fonts`  
(pdf) $\text{\LaTeX}$  support for the Biolinum fonts.
- hacm** in `fonts`  
The alphabet of the constructed language Arka.
- \* **lm-math** in `fonts`  
Latin Modern OpenType math font.
- libertine-type1** in `fonts`  
(pdf) $\text{\LaTeX}$  support for the Linux Libertine fonts.

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### graphics

- hobby** in `graphics/pgf/contrib`  
Hobby's algorithm for generation of Bezier curves, for PGF/TikZ.
- jmakepdfx** in `graphics/pgf/contrib`  
Java interface to Ghostscript for conversion of PDF to PDF/X.

- setdeck** in `graphics/pgf/contrib`  
Provides  $\text{\LaTeX}$  commands to typeset cards from the game set.
- smartdiagram** in `graphics/pgf/contrib`  
Create smart diagrams from lists of items.
- svg** in `graphics`  
Include `.svg` files made by Inkscape.
- tikzposter** in `graphics/pgf/contrib`  
Making posters with TikZ.

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### info

- examples/Presentations\_en** in `info`  
Examples from the book *Presentations with  $\text{\LaTeX}$*  by Herbert Voß.
- latex-sciences-humaines** in `info`  
French book about  $\text{\LaTeX}$  and humanities, 270 pp.

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### macros/generic

- catcodes** in `macros/generic`  
Deal with category code switching.
- langcode** in `macros/generic`  
Adjust language-dependent settings.
- plainpkg** in `macros/generic`  
Support for making generic packages.

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### macros/latex/contrib

- abraces** in `macros/latex/contrib`  
Generalized constructions similar to `\overbrace` and `\underbrace`.
- actuarialangle** in `macros/latex/contrib`  
Typeset nice looking “angles” in present value of an annuity symbol.
- adhocfilelist** in `macros/latex/contrib`  
Shell script to output a list of  $\text{\LaTeX}$  `\Provides...` contents, possibly filtered according to various criteria.
- bohr** in `macros/latex/contrib`  
Create Bohr models of atoms.
- calcage** in `macros/latex/contrib`  
Calculate age in years (based on `datenum`).
- chkfloat** in `macros/latex/contrib`  
Check for floats too far from their origin.
- counttexruns** in `macros/latex/contrib`  
Count how often a  $\text{\LaTeX}$  document is compiled.
- designcon** in `macros/latex/contrib`  
Tools for developing DesignCon conference papers using  $\text{\LaTeX}$  and LyX.
- eledform** in `macros/latex/contrib`  
Formalize textual variants in critical editions.
- \* **eledmac** in `macros/latex/contrib`  
Successor to `ledmac` and `ledpar`.
- exsheets** in `macros/latex/contrib`  
Create exercises or questionnaires, with solutions.

`macros/latex/contrib/exsheets`

**filedate** in `macros/latex/contrib`  
 Access and compare info and modification dates.

**fnumprint** in `macros/latex/contrib`  
 Typeset a number as a word or Arabic numerals.

**\*imakeidx** in `macros/latex/contrib`  
 Package for producing multiple indexes.

**libertine** in `macros/latex/contrib`  
 Compatibility package for existing documents to use `biolinum-type1` and `libertine-type1`.

**loops** in `macros/latex/contrib`  
 Generic looping macros.

**ocgx** in `macros/latex/contrib`  
 Use PDF feature ‘Optional Content Groups’ (OCG) without JavaScript.

**physics** in `macros/latex/contrib`  
 Typesetting equations in vector calculus and linear algebra via Dirac notation.

**pkuthss** in `macros/latex/contrib`  
 Template for dissertations at Peking University.

**pxcjkcat** in `macros/latex/contrib`  
 Change CJK category settings in up $\LaTeX$ .

**resphilosophica** in `macros/latex/contrib`  
 Class for typesetting articles for the journal *Res Philosophica*.

**scrjrn1** in `macros/latex/contrib`  
 Class to typeset diaries or journals.

**ulthese** in `macros/latex/contrib`  
 $\LaTeX$  class to prepare theses for the Université Laval, Québec.

**uspatent** in `macros/latex/contrib`  
 $\LaTeX$  class and  $\LyX$  layout files to support writing US patent applications.

**venndiagram** in `macros/latex/contrib`  
 Create Venn diagrams with *TikZ*.

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### **macros/latex/contrib/biblatex-contrib**

**biblatex-casparvector** in `m/1/c/biblatex-contrib`  
`biblatex` support for Chinese  $\LaTeX$  users.

**biblatex-publist** in `m/1/c/biblatex-contrib`  
`biblatex` support for publication lists.

**biblatex-trad** in `m/1/c/biblatex-contrib`  
`biblatex` support for traditional  $\BibTeX$  styles: `plain`, `abbrv`, `unsrt`, `alpha`.

**oscola** in `m/1/c/biblatex-contrib`  
`biblatex` support for the Oxford Standard for the Citation of Legal Authorities.

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### **macros/plain**

**plipsum** in `macros/plain/contrib`  
 ‘Lorem ipsum’ paragraphs generator for plain  $\TeX$ , with many f-ligatures.