
The PracT_EX Journal 2010-2

The PracT_EX Journal is an online publication of the T_EX Users Group. Its web site is <http://tug.org/pracjourn>. All articles are available there.

Issue theme: L^AT_EX for teachers.

LANCE CARNES, In this issue

Editor's introduction to the issue.

THE EDITORS, News from Around

Knuth's Earthshaking Announcement;
More Knuth humor; Type maps.

CASSIANO S. ROSA and OG DESOUSA, Sweave—
Interface entre R e L^AT_EX [Using R and L^AT_EX]

When using R for statistical analyses, it is common to keep the data analyses, the results of experiments, and graphs in separate files. Fortunately, for R users who also use L^AT_EX, there is a tool for organizing these files: Sweave! This paper presents a very short account on how Sweave integrates R and L^AT_EX to keep both input and output of statistical analyses in a single style file. (In Portuguese.)

ALAIN SCHREMMER, Configurable materials for
teaching mathematics

This article describes a system that uses L^AT_EX to generate math texts, homework, quizzes, and exams for developmental mathematics courses.

MARIUS HOFERT and MARKUS KOHM, Scientific
presentations with L^AT_EX

In this article, we show how scientific presentations can be created based on the KOMA-Script document class `scrartcl`. The main advantage of the suggested approach is that the presentation slides allow for easy copy-and-paste of content from other L^AT_EX documents such as research papers or handouts. Using this approach, presentation slides are quickly generated, without the author having to learn how to use other L^AT_EX presentation packages. Additionally, in contrast to the rather overused templates of the more common presentation packages, the slides can be individually created and thus tailored to the topic of the presentation.

PAULO ROGÉRIO and RIAN GABRIEL, Design and
preparation of effective scientific posters using
L^AT_EX

Posters are important presentation tools in scientific conferences. L^AT_EX offers several packages, e.g. `a0poster` and `sciposter`, for designing several kinds of high quality posters. However, many of the posters we are used to seeing are visually split into columns and conceptually organized in sections, with amounts of text which are likely to disrupt the viewing experience and understanding of the content. In this article we present an efficient method for preparing visual scientific posters using the PGF package and its syntax layer `TikZ`.

CRISTINA BLAGA and PAUL BLAGA, Variation and
sign tables with `tableau`

We describe here a package, `tableau.sty`, created by N. Kisselhoff, very useful especially for calculus courses. It aids in the construction of variation and sign tables for the study of functions. The package provides a new environment based on `PSTricks`.

CRISTINA BLAGA and PAUL BLAGA, Preparing
exam and homework material with `probsoln`

We describe here some of the possibilities provided by the package `probsoln`, by Nicola Talbot. The aim of the package is to help the user prepare different kinds of problem lists and tests.

BASTIAAN JACQUES, Square, multiline cells using
`tabular(x)`

I describe a method for creating square cells, containing multiple lines typeset in paragraph mode using the `array` package. Both plain L^AT_EX `tabular` and `tabularx` packages are used.

THE EDITORS, Ask Nelly

Footnotes appear above a figure?; Changing
margins and line spacing?.

THE EDITORS, Distraction: KenKen puzzles