The PracTeX Journal 2010-1

The PracTeX Journal is an online publication of the TeX Users Group. Its web site is `http://tug.org/pracjourn`. All articles are available there.

Issue theme: LaTeX academic work bench.

Francisco Reinaldo, From the Editor
Editorial; next issue: LaTeX for teachers.

The Editors, News from Around
Knuth volume 4 and Google talk; CSI typeface; other journals; one million LaTeX math formulas at `latexsearch.com`.

Claudio Beccari, Some PDF/A tricks
This short contribution explains how to fix some font problems when creating PDF/A documents, the new standard for archival PDF documents.

Alan Braslau, Chemical structures with PPCHTeX
Chemical formulas and chemical structures can be included in a LaTeX or a ConTeXt document easily using the PPCHTeX macros. We present here a simple introduction to their use. Additionally, a more extensive tutorial is available in the documentation of the package.

Klaus Dohmen, Dual screen presentations with the LaTeX beamer class under X
We show how the 'X Resize, Rotate and Reflect Extension' of the X Window System can be used to display a LaTeX beamer presentation on one or two beamers while simultaneously displaying the output of both beamers on the lecturer's display. If only one beamer is used, the lecturer's display might show both the output of the beamer and hidden notes.

Massimiliano Dominici, LaTeX e CSV [LaTeX and CSV]
In this paper we will present some techniques and a few examples about handling data in comma-separated-value format. We will focus mainly on two packages specifically aimed at this purpose: `datatool` and `pgfplots`. (In Italian.)

Aracele Garcia and Arthur Buchsbaum, Sobre as ferramentas em LaTeX que os estudantes de Lógica deveriam conhecer [About LaTeX tools that students of logic should know]
In this article, we share our experience with PracTeX readers about LaTeX and the toolbox that students of Formal Logic of the Master in Computer Science from the Federal University of Santa Catarina (UFSC) in Brazil are using to prepare handouts, books, articles, dissertations and solving exercises. We present some tools we have found useful for students who are developing projects in formal logic: proof styles, useful sites, styles of numbering and referencing of proclamations, references in BibTeX format and suggestions of reading. The work done in this area requires a certain formality and rigor, thus we believe that such features can be successfully aimed at by the use of LaTeX. (In Portuguese.)

Marco Antonio Gomez-Martin and Pedro Pablo Gomez-Martin, Continuous integration in LaTeX
Have you ever co-written a paper using LaTeX together with some version control system such as SVN? Have you ever updated your local copy and the compilation become broken due to a previous bad commit? Continuous integration avoids this problem using an auxiliary server that constantly checks the sanity of the repository, compiling the LaTeX documents after each commit, and notifying authors of possible problems. This paper describes how to configure this environment. Although the configuration effort is detailed, it is done only once and provides many benefits. In addition to doing compilation tests, all authors can be automatically informed by email when a new version is committed, and the current `.pdf` version can be made available to third parties on the Web.

Ivan Griffin and Ita Richardson, Using LaTeX for qualitative data analysis
LaTeX, in addition to its typesetting role, has considerable potential as a tool to assist in workflow automation for *Qualitative Data Analysis* (QDA) of collected research data.

Richard Hardwick, Automatic report generation with your text editor, Perl, and LaTeX
I describe a simple system for producing standard evaluation reports. The evaluator writes plain text files. A Perl script reads the text files and uses the Perl module `Template.pm`, with a ready-made LaTeX template, to generate the final LaTeX report.

Jim Hefferon, Giving away a book
[Reprinted with revisions in this *TUGboat*.]

Tomas Morales de Luna, Useful vector graphic tools for LaTeX users
This paper presents some useful tools for creating vector graphics that can be included in LaTeX documents. Of all the tools available, we focus on those that can produce graphics easily, and that can include any LaTeX math formula. In particular, we present three useful tools: `Xfig`, `LaTeXDraw`, and `Matplotlib`. While the two first are intended to

produce sketches and figures, the last will produce graphs, charts and contours.

Francisco Reinaldo et al., Gerando Certificados Acadêmicos e inserindo Assinaturas Digitalizadas [Generating academic certificates]

In this paper we present how ordinary users can generate academic certificates with scanned signatures automatically by using CSV and a few instructions in LaTeX 2$_\varepsilon$. (In Portuguese.)

Francisco Reinaldo et al., Doxygen e LaTeX 2$_\varepsilon$: As definitivas ferramentas para documentar seu código-fonte [Developing software with Doxygen & LaTeX]

In this paper we present how programmers can document source code and have updated reports during the elaboration/implementation phase. We focus mainly on two tools specifically aimed at this purpose: Doxygen and LaTeX 2$_\varepsilon$. (In Portuguese.)

Francisco Reinaldo et al., Projeto Interdisciplinar (PI) em LaTeX 2$_\varepsilon$: Um modelo de relatório para a academia [A student report template]

In this paper we present an example of a technical report commonly used by students to present their academic research. (In Portuguese.)

Francisco Reinaldo et al., Guia Visual Definitivo para Instalação de LaTeX 2$_\varepsilon$ e suas Ferramentas de Apoio [Six LaTeX tools (with videos)]

In this paper we present the most promising LaTeX 2$_\varepsilon$ tools for common users and how these tools should be fine-tuned. We focus mainly on six heterogeneous tools specifically aimed at this purpose: MiKTeX, GSview, eXPert PDF Reader, Texmaker, JabRef, and LaTable. (In Portuguese.)

Luigi Scarso, Playing with Flash in ConTeXt MkIV

A first attempt to adapt `flashmovie.sty` to ConTeXt MkIV to produce a flash movie with Meta-Post and `swftools`.

Herbert Schulz, Enhancing command completion for TeXShop

LaTeX environments and commands are rather wordy markup. These make the intentions of the author easy to determine but more difficult to write. Using command completion, authors can write a few letters and trigger an expansion into complete environments and commands along with ways of going between arguments of those commands. In this paper I present an enhancement to command completion in TeXShop that allows more consistent completions and inclusion of short comments to help

authors remember the order and contents of the arguments to those environments and commands.

Francesc Suñol, Tools for creating LaTeX-integrated graphics and animations under GNU/Linux

This paper describes how to easily create graphics and animations that can be included in LaTeX documents. This article discusses three kinds of figures: plots, schematics, and pictures. The tools presented here can quickly generate plots, and are based on simple Gnuplot and Bash scripts that display the final result on the screen. Ipe is an excellent program to deal with complex figures and schematics, and the `animate` package is used to make a series of figures change over time to simulate a movie. All the programs used in this article are free software.

Evan Wessler, An argument for learning LaTeX: Benefits beyond typesetting

[Published in TUGboat 31:1.]

David Walden, Travels in TeX Land: memoir, TtH, and a booklet signature

In this column in each issue I have mused on my wanderings around the TeX world. In this issue I describe three efforts. In section 1, I describe my first attempt to use the *memoir* class to produce a book. In section 2, I describe my first time using TtH to convert from LaTeX to HTML. In section 3, I describe creating a 16-page booklet signature using a method described by another author in an earlier issue of this journal.

This will be my final TeX Land column in this journal. I am pleased to have provided a column for every previous issue, but it is now time for me to focus on other things. I won't stop using TeX, however, and probably will continue to write about TeX once in a while, but without the concerns of a regular column. I wish the editors of this journal "all the best" as they continue publication of *The PracTeX Journal.*

Francesco Reinaldo et al., Book review: *LaTeX Quick Start*

In this paper we review the book *LaTeX Quick Start: A first guide to document preparation* from a user's viewpoint, and give a candid assessment of its contents. (In Portuguese and English; the book reviewed is in English.)

The Editors, Ask Nelly

How can I have the author name for a quotation set on the same line as the quotation or on a new line, according to space requirements?

The Editors, Distractions: Typesetting a fancy curriculum vitae