

MAPS 42 (2011)

MAPS is the publication of NTG, the Dutch language T_EX user group (<http://www.ntg.nl>).

TACO HOEKWATER, Redactioneel [From the editor]; p. 1
Overview.

TUG 2011 announcement; p. 2
<http://tug.org/meetings>.

KOEN WYBO, Review of *Typesetting tables with L^AT_EX* by Herbert Voss.; pp. 3–4

NICOLAAS J.I. MARS, Review of *Typesetting mathematics with L^AT_EX* by Herbert Voss; pp. 5–6

WILLI EGGER, A personal organizer: PocketDiary; pp. 7–14

Sometimes, a cheap personal organizer on paper can come in handy. This solution prepared in ConT_EXt MkIV provides a range of options to set up such a personal organizer. A PocketDiary is printed on a single sided A4 landscape sheet of paper and then folded into a pocket size booklet thereby preventing unprinted/empty pages from being seen. The PocketDiary is easy to make and after one week it is simply replaced with a subsequent booklet. A detailed description is given of the system and how to set up a production file. At the end of the article instructions are included how to fold the booklet.

HANS HAGEN, Tagged PDF; pp. 15–23
[Published in *TUGboat* 31:3.]

HANS HAGEN, Inter-character spacing and ligatures; pp. 24–26

Support for selective spacing of ligatures in ConT_EXt MkIV.

KEES VAN DER LAAN, 8th March; pp. 27–33

An OTF with Cyrillic — keyboard and glyphs — is used in PostScript for an 8th March congratulations. The wired-in ASCII code table in T_EX inhibits keyboarding Cyrillic.

LUIGI SCARSO, Extending ConT_EXt with PARI/GP; pp. 34–42

This paper shows how to build a binding to PARI/GP, the well-known computer algebra system, for ConT_EXt MkIV, with some examples on how to solve some common basic algebraic problems.

GRAHAM DOUGLAS, Customised L^AT_EX page layout with LuaT_EX; pp. 43–54

The relationship between L^AT_EX's page layout parameters and the conventional desktop publishing (DTP) model of a page are explored and formulae to map between them are presented. A sample implementation of those formulae in Lua is provided, showing how to achieve customised page layouts in LuaT_EX. The placement of crop marks is addressed, and a technique for preparing and adding them to typeset pages is discussed.

TACO HOEKWATER, LuaT_EX Lua modules on Linux; pp. 55–56

How to use the dynamic Lua module loading abilities in LuaT_EX under Linux or similar systems.

THOMAS SCHMITZ, Using ConT_EXt with databases; pp. 57–68

Extensive example of using ConT_EXt MkIV to typeset material (exercises) from a database.

KEES VAN DER LAAN, Gabo's Torsion — and some more; pp. 69–110

Gabo's Torsion is emulated in EPSF, Encapsulated PostScript File format. Gabo's constructive art, math, computer graphics and the use of PostScript are touched upon. Whether PostScript is a suitable language for projection and drawing 3D objects on paper is discussed. An introduction to PostScript aimed at EPSF use, in a nutshell, is included. How to obtain cropped pictures along with the conversion to .pdf is mentioned.

An interesting observation is made: Bézier cubics, specified by begin point, the control points and the end point, are invariant under (oblique parallel) projection, which allows to project B-cubics efficiently. The efficient projection of (approximated) circles and ellipses has been addressed. For the evaluation of B-cubics de Castel'jau's algorithm is used.

Emulations in EPSF of Gabo's Linear Construction in Space No 1 and 2, of one of his Spheric Themes, and his Linear Construction Suspended, are also included. For Metafont aficionados my interactive version of old is also included.

[Received from Wybo Dekker.]