

Abstracts without papers

Animations from constructive geometry in MetaPost

Jan Šustek

In this talk, I will present T_EX and MetaPost methods used for the creation of our textbook on constructive geometry, both in 2D and 3D. In the screen version of the textbook there are step-by-step interactive animations of the geometric constructions. In the printed version of the textbook, there are only the final constructions, of course without interactivity and animations. The source code of the animations must be friendly for a geometer without knowledge of T_EX and MetaPost – the syntax uses only basic commands from constructive geometry. The programming methods used in the implementation include overloaded macros allowing variant number of parameters and variant types of parameters, or object-like programming with some kind of inheritance.

Additional data types

Hans Hagen

New data types: at the T_EX end you deal with them using regular T_EX commands but they are actually managed in Lua. It's typically one of the features that ConT_EXt LMTX brings you.

Implementors

Hans Hagen

For those who mix T_EX and Lua, the `implementor` feature might be a handy way to come up with basic interfaces.

Module for drawing statistical charts

Tamara Kocurová & Adriana Kašparová

We will present our module which enables users to relatively easily create a basic set of statistical charts (area, bar, bubble, column, line, pie, radar, scatter, and stock charts). The charts are drawn by using just one ConT_EXt command, all their features can be set/changed by using its parameters. For implementation, the languages Lua and MetaPost were used.

On this topic, we worked on our bachelor thesis and were (are) supervised by Tomáš Hála. The three of us also created a manual, which explains the usage of the module, which we will present as well!

Work in progress: a CSS parser with LPEG

Taco Hoekwater

Last year I talked about our company's efforts to create PDF from HTML snippets, including CSS styling. I also gave a talk about LPEG for beginners. This year's talk shows a bit of ongoing work in that area: writing a full CSS parser in Lua with help from LPEG. It is a work-in-progress, but the main part of the LPEG code is finished.

ConT_EXt for wedding

Arthur Rosendahl

Around the time of the meeting last year, I was preparing my wedding and showed the special type of imposition that was needed to print the menus for the dinner, and how to achieve it in ConT_EXt. Because of circumstances that were at the time unforeseen and are now well known, we had to tell our guests to stay home, and the dinner could not take place (but the wedding did), so that we didn't print the menu. We did, however, print a number of items over the months before the appointed time, and in particular, the invitations, all of which were done in ConT_EXt.

I will show how we did it, and talk a little bit more about the menu for the dinner that we'll hopefully still have, even if it is more than a year late.



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