
ConTeXt Group Journal 2020

The ConTeXt Group publishes proceedings of the ConTeXt meetings: articles.contextgarden.net.

HENNING HRABAN RAMM, Editorial Note; p. 4

Day Plan; pp. 5–6

HANS HAGEN, MkII MkIV LMTX: where does it end?; pp. 8–9

This meeting was special because of the COVID situation. It forced us to adapt and think about how to deal with this. But, we had a very nice meeting as usual. The first talk was a summary of where we started and where we are now. The other talks were more specialized.

HANS HAGEN, LuaMetaTeX: where do we stand?; pp. 10–13

History and overview of the LMTX engine.

HANS HAGEN, Extensions related to programming macros; pp. 14–28

Published in *TUGboat* 42:1.

HANS HAGEN, Low-level: tokens; pp. 29–40

Detailed description of token parsing in LMTX and original TeX.

HANS HAGEN, ECMAScript: just because it can be done; pp. 41–44

Using the standalone ECMAScript interpreter from `mupdf` in LMTX. The document interface is somewhat similar to handling Lua.

HANS HAGEN, Lost in fonts; pp. 45–47

A case study of restoring ligature support in LMTX, with no TFM loaded.

HANS HAGEN, Simple fonts with MetaFun; pp. 48–52

Defining shapes using MetaPost and MetaFun and adding them as new glyphs in fonts.

TACO HOEKWATER, MetaPost definitions; pp. 53–72

Writing definitions in MetaPost: macros, operators, variables, grouping, and more.

MIKAEL P. SUNDQVIST, Scrutinized paths: A new path transformation in MetaPost; pp. 73–81

In this article, I discuss a problem that occurred while trying to find `directionpoints` of joined paths in MetaPost. We found that when joining two paths where the final point of the first path is the same as, or at least very close to, the first point of the second path, numerical problems might appear. Finally, we present different solutions that appeared on the ConTeXt mailing list on how to avoid the issue; the most

generic solutions work by sanitizing the joined graph. In fact, this resulted in a new path transformation called `scrutinized`.

HANS HAGEN, UTF-8 in MetaPost; pp. 82–86
Using UTF-8 in MetaPost source code.

HANS HAGEN, SVG graphics: some demos and discussion; pp. 87–88

Overview and examples of scalable vector graphics (SVG) images.

MICHAL VLÁSAK, Multimedia, PDF and ConT_EXt; pp. 89–96

The possibility of inserting multimedia (audio, video, 3D) into PDF files has been here for a long time, albeit in different forms. Traditionally ConT_EXt has had support for it, but the support in PDF viewers was dubious. What is the situation today, and is it worth all the hassle?

WILLI EGGER, Book production; pp. 97–106

Producing a book is comparable to making a wooden window. Yes, in both cases you need a plan/strategy, a list of requirements, and information in order to be able to get the desired result. After presenting the window project there are a couple of thoughts gathered which concern the work of the typographer, the printer and the bookbinder. With regard to the typographer using ConT_EXt, three examples of special cases are described and illustrated with pictures and sample code.

TON OTTEN, Proofing and production with ConT_EXt; pp. 107–117

ConT_EXt has several built-in tools that can help you during the proofing stage of your project. Furthermore there are a few ConT_EXt features you can invoke in your style that gives you visual feedback of inconsistencies or errors. And then there are modes. Below I will describe a number of the techniques I use in the proofing stage of the Math4All project.

HARALD KÖNIG, 14th ConT_EXt meeting 2020: 6.–12. September in Sibřina near Prague; pp. 118–124

The year is 1 after COVID-19. The T_EX world is entirely occupied by corona viruses and thwarted. Well, not entirely. . . One small group of indomitable T_EXies still met completely offline, on-site, face to face, but conforming to Corona regulations nonetheless. And since it was apparently the only T_EX conference that went ahead as planned, it was, with only twelve participants, the biggest T_EX conference worldwide! The meeting took place, as in 2018, at the former nicely renovated farm of the Škoda family, that also grows many herbs, keeps honey bees and

offers all kinds of tasty products from honey, nuts and herbs. A wonderful quiet place that we had all to ourselves and where we could engross ourselves undisturbed in T_EXnical and other thoughts.

Abstracts without papers; pp. 125–126

CG SECRETARY, 2020 Annual General Meeting Minutes; pp. 127–130

Participant list of the 14th ConT_EXt meeting; p. 131

[Received from Taco Hoekwater.]



Comic by John Atkinson
(<https://wronghands1.com>).