

Abstracts without papers

A day at Pragma ADE

Ton Otten

What does a day at Pragma look like. Where is ConT_EXt made.

Compact fonts

Hans Hagen

It has been mentioned in the mailing list a few times, but what are compact fonts in ConT_EXt? I will show some of the features that LuaMetaT_EX brings to fonts, and discuss how we benefit from it. With the help of users testing compact mode is already for a while reliable enough for production. It might be interesting to know what the complications are (were) that we deal with and what benefits it brings.

Felt workshop

Annalies Otten

Starting point are the figures that Hans used for the Christmas card. Participants make a laptop felt. That is a protective piece between the keyboard and the screen: well known are the keys that you can see in the screen as a result of the ‘finger-greasy’ keys that ‘etch’ the screen.

Where to draw the line

Hans Hagen & Mikael Sundqvist

As a follow up on the rather fundamental math overhaul in LuaMetaT_EX and ConT_EXt, we had to check what the consequences were for tagging (in PDF) and the export (MathML). We looked at the latest specifications of both and in the process had to make decisions what to support and where to stop. Especially when these technologies failed us we decided to draw some lines. It makes no sense to waste time when the results will never be (handled) okay.

How does T_EX fit in the current landscape

Hans Hagen

The program is part of a tradition of typesetting that although spanning ages is not that old. When (semi) automatic techniques showed up that also meant a faster getting obsolete process. When we look at the landscape we see for instance church towers, castles and wind mills but newer tech is less stable (even the water tower where we have the meeting is a rarity). Semaphores, office buildings, mills for electricity, phones, computers etc get replaced within decades. So how about T_EX? What do we need to do in order to preserve what is worth preserving? Do we need to make choices? (Also a discussion WRT the ConT_EXt roadmap.)

PDF 2.0

Hans Hagen

This standard has been around for a while and hasn’t received much attention, probably because it doesn’t bring much new on top of 1.7 (the last in the 1 series). There is some follow up on tagging, validating and signing. In the process of checking this out we also added some features to PDF inclusion: checking, cleaning, merging etc. There can be several talks, discussion, drawing roadmaps: this is typically something where those present at the meeting set the agenda.

Tagging

Hans Hagen

Do we need to support Tagged PDF beyond the bare minimum? How reliable is it and what purpose does it server. We will demonstrate some and also want to trigger a discussion. What role does validation play in this and how relevant is it?

The par builder

Mikael Sundqvist

The extended multiple sub-pass par builder has been stable for a while now. This presentation explains how the par builder works, how it got extended and how users can benefit from it (and related new features). After all, the par builder is one of the center pieces of T_EX.

The distribution

Hans Hagen

How is a ConT_EXt distribution made (generated) and how can it be hosted locally. What role does the compile farm play and how much is involved in maintenance of the code and resources. (It can be a prelude to a garden based installer.)

ConT_EXt language editor support

Taco Hoekwater / community discussion

I put this in as a placeholder for talking about how to support ConT_EXt in editing environments: Language Server Protocol, tree-sitter, AucT_EX, specific editor extensions, et cetera.

(Lua)MetaFun

Mikael Sundqvist

What's new, what is needed, what do we have on the agenda.

ValentinE-typo: from AsciiDoc to ConT_EXt

Götz Schnell

The goal of the development of ValentinE-typo is to serve two use cases, 1) to facilitate the creation of ConT_EXt files and 2) to produce PDF output in typographic quality from AsciiDoc files.

The concept of ValentinE-typo is to provide monolithic converter files. These converter files, called typo-theme, define the style of text elements, the use of colors and fonts, and the document type. We present the challenges for the development, the great number of syntax rules and variations, and the management of AsciiDoc and ConT_EXt special characters. Several methods to include ad-

ditional ConT_EXt content are presented and discussed. Another important topic is an overview of various tools helping in the creation of the AsciiDoc source document.

Improvements

Hans Hagen

We don't provide a detailed change log which means that occasional improvements go unnoticed unless a user diffs an update (and some do). I'll mention a few recent ones but challenge those present to come up with ones they noticed (for the good or bad). We can also discuss possible improvements because a lot of T_EXing is in the subtle details, of rendering as well as comfort.

The page builder

Mikael Sundqvist & Hans Hagen

We're currently looking at the page builder. This sub mechanism has already been extended over time, also as part of extending the par builder. Users are invited to come up with possible extensions (as long as they fit into the T_EX model).

Live Coding and ConT_EXt

Riviera Taylor

In live coding performances artists create music and / or render graphics with purpose-built software. Tidal Cycles, the live coding software I use, was created by Alex McLean almost 20 years ago. Tidal Cycles can be used in tandem with Superdirt, a Supercollider extension, to sequence audio samples or synthesise sounds and thus generate sonic patterns. I'll demonstrate this, discuss the Open Sound Control specification and show how Tidal Cycles can be used to live code ConT_EXt documents.

CSL

Hans Hagen

There has been mentioning on the list of CSL (citation style language). There is some experimental code, which is good enough for a discussion on how to proceed. Where to start and where to stop.

Math4All

Frits Spijkers

Frits is the main author of Math4All. He will tell us something about Math4All and his work method. He works directly in XML and publishes that to the Math4All website.

Updating the ConT_EXt distribution for Math4All

Ton Otten

In Math4All we produce PDFs in an XML2PDF workflow. We use a 2022 distribution. It is now time to update to 2024. What do I encounter? Indeed: page flow differences, in a 20 000 page project with multiple layouts.

Kaktovik numbers

Frits Spijkers

Calculating with the Kaktovik numbers and the Kaktovik abacus. Mechanical Intelligence as a counterpart to AI.

Seven segment font in MetaPost

Hans Hagen

A demonstration on how to create a seven segment font in MetaPost.

MathML

Hans Hagen

ConT_EXt always supported MathML. There is a bit activity on that front when it comes to browsers, although there is the usual instability, inconsistency, come and go of support and features. What is the current state.