Valentin*E*-typo from AsciiDoc to ConTeXt

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# Goal of Valentin*E*-typo

 $\implies$  lower the entry level into the world of ConT<sub>E</sub>Xt.

#### *Two use cases:*

- 1. facilitate the creation of ConTeXt files (templates).
  - templates for different applications.
  - can be compiled without errors (working example).
  - pretty-printing of ConTeXt code is not a priority.
- 2. produce PDF output in typographic quality from AsciiDoc files.
  - AsciiDoc is a relatively complete and versatile lightweight markup language.
  - alternative approaches show difficulties.

## Why AsciiDoc?

"Write as code"

extension of "Documentation as Code"

Pros

 $\longrightarrow\,$  syntax of DocBook, suitable for writing technical books,

 $\longrightarrow$  quite many syntax elements, for documentation see <a href="https://docs.asciidoctor.org/asciidoc/latest/">https://docs.asciidoctor.org/asciidoc/latest/</a> ,

- $\rightarrow$  standardized: <u>https://asciidoc-wg.eclipse.org/</u>,
- → human readable, similarities with Markdown,
- $\rightarrow$  can be converted in other formats without great effort.

### Other approaches

- AsciiDoc converter for PDF exists: *Asciidoctor-pdf*:
  - limited typographic quality,
  - limited theming possibilities,
  - fast, good solution for quick reports in PDF.
- AsciiDoc converter for LaT<sub>E</sub>X exists: Asciidoctor-Latex:
  - difficulties in installation,
  - limits for different use cases?
- Pandoc can convert AsciiDoc files into ConT<sub>E</sub>Xt
  - limits for special text elements
  - different with configuration variants
- $\rightarrow$  So, why not trying with ConT<sub>E</sub>Xt?

# Concept of Valentin*E*-typo

- AsciiDoc file can be converted with different backends:
  - HTML5, DocBook5, Epub, asciidoctor-pdf, ...
- Monolithic library:
  - one style for distinct document type (exception: Asciidoc doctypes),
  - no distraction by "fiddling" with parameters,
  - variants with AsciiDoc document attributes and options.
- transparency, repeatbility (PDF metadata).
- Library styles with different document types.
- $\rightarrow$  see online repository:

https://gitlab.com/valentine4743416/ValentinE-typo

## Steps to write a document:

#### Authoring

- 1. Write a file in format AsciiDoc
  - with any text editor
  - on any device

#### Converting

- 2. Convert AsciiDoc file into a ConTeXt file
  - with a specific typo-theme library file
  - maybe on another device

### Typesetting

- 3. Compile the ConTeXt file into a PDF file
  - maybe on another device

# Challenges in development

- Big variety in AsciiDoc syntax, for example:
  - styles for bullets,
  - design of tables.
- "Special characters" in AsciiDoc and ConTeXt:
  - ({,[,&).
- Decisions on styling possibilities in AsciiDoc or in Con-TeXt, for example:
  - with document attributes like sectnums.
  - **decision**: priority for AsciiDoc attributes

# Additional ConTeXt content

1. Pass macro

- depends on backend, deprecated
- 2. Roles
  - maybe intrepretated by every backend

#### Example 1. Use of a ConTeXt command as role

The velocity is [.unit]#800 kilometer per hour#.

is interpretated as:

The velocity is 800 km/h.

- 3. docinfo file
  - include  $ConT_EXt$  content into the header of the  $ConT_EXt$  files
  - you may define new roles

Example 2. Use of a command defined in the docinfo file

```
[.textorange]
This paragraph has a nice color.
```

is rendered as

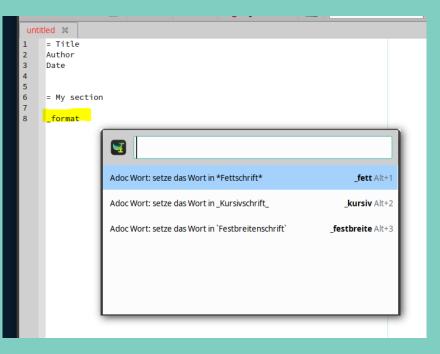
```
This paragraph has a nice color.
```

# Helpers

Editing (Ascii, Doc syntax)

- AsciiDoc Live: <u>https://asciidoclive.com/</u> ,
- AsciiDoc FX: <u>https://asciidocfx.com/</u> ,
- Syntax highlighting and helpers in text editors
- Browser extensions (Chrome, Firefox, Safari, Opera, Edge).

- Espanso (text expander)
  - like "snippets" in text editors
  - Selection box



## Rendering (AsciiDoc syntax and final result)

- Reference manual
  - for each library files
  - in mother language
  - AsciiDoc Syntax elements and their interpretation by the specific library file