COW
cow
ConTEXT - On - Web
C-O-W: Welcome at
context-on-web.eu

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BachoTeX
April 29 – May 2, 2023
This paper introduces a new web application for convenient use of the ConT\text{E}Xt typographic system. Its mission is to make the ConT\text{E}Xt typographic system accessible to a wider range of users without having to install the software on their own computer. See context-on-web.eu.

The technologies used and the structure of the application will be described, in particular the interface with the editor and the various tools to facilitate the creation of document, such as designers for the layout, tables, lists, etc. The application generates and displays the PDF document.

Thanks to the aforementioned features and the intuitive controls, the application becomes a user-friendly platform that can make learning ConT\text{E}Xt easy.
Objectives

• promotion of ConTeXt

• simplifying the first steps for beginners

• use ConTeXt at lessons

• testing snippets

• remote generating PDFs (for case of being ‘on the road’)

No cows on the web

- TeXonWeb
  + file management, some tools (table designer etc.)
  - 1. ConTExt not supported
  - 2. manual download of PDFs
  - 3. no further development

- Overleaf
  + wide repertoir of functions
  - 1. ConTExt not supported (but it is possible to hack it)
  - 2. a part of it is paid

- Visual Studio Code
  + frequently used ⇒ known
  - offline

- ConTeXt online
  + reference compilation?
  - 1. no user friendly functions
  - 2. no file management => only for simple testing(?)
Web technologies

- Next.js
- Supabase (authentication, each project: PostgreSQL database)
- CodeMirror (editor, syntax)
- REACT-PDF
- Cloud (now at Czech company Hukot)
Mode for anonymous users
Mode for registered users
• Top panel (language)

• List of files, directories (+ panel with tools)

• Editor with editing tools panel

• Viewer’s window

• Bottom panel (reports)
<cd:command category="structure" file="strc-flt.mkvi"
    level="style" name="definefloat">
    <cd:arguments>
        <cd:keywords>
            <cd:constant type="cd:singular"/>
        </cd:keywords>
        <cd:keywords optional="yes">
            <cd:constant type="cd:singular"/>
            <cd:constant type="cd:plural"/>
        </cd:keywords>
        <cd:assignments list="yes" optional="yes">
            <cd:inherit name="setupfloat"/>
        </cd:assignments>
    </cd:arguments>
</cd:command>
<cd:instances>
  <cd:constant value="chemical"/>
  <cd:constant value="figure"/>
  <cd:constant value="table"/>
  <cd:constant value="intermezzo"/>
  <cd:constant value="graphic"/>
</cd:instances>
Interesting features

- (), [], {}
- designers for the layout, tables, lists, etc.
- indexing cells in tables
- ...
• rounding values
• list of languages (all→real)
• to kill the running rendering process
• to find the cow... ;-)
• versions: update and selection
• colours
• ...

(neverending process...)
Current state

- available on the site
- three runs of testing on beginners incl. foreign students
- questionnaire for the feedback
- all comments have been incorporated

- then: announced in ntg-context mailing list
- positive response

- brief documentation available in Czech + English
is welcome!
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