

Appendix to CV

Michel René MEHL

✂ Experience in file conversion and processing

2019 - 2023 XSL/XML Transformations

Expertise gained through the development of back-office utilities in projects at DEUTA-WERKE, with 49 XSL files, 4191 lines:

DEUTA_prepare4jama.sh

Markdown-to Excel XML converter. Converts a readable test specification written in Markdown format into an Excel XML file that can be imported into the JAMA requirements management database.

DEUTA_convert2dita.sh

Markdown to DITA (XML) converter ([DITA](#)). Converts documentation files written in Markdown format to DITA XML files, which can then be manipulated with the [Oxygen XML editor](#).

DEUTA_clihelp2doc.sh

Converts the help text of a command-line tool into structured documentation in Markdown or DITA format.

DEUTA_enforce_ditaconv.sh

Utility designed to facilitate and enforce the application of DITA naming conventions:

- Cleans up IDs automatically generated by Oxygen (deletion)
- Force filenames and topic IDs (<topic id=..>) to be derived from the title (<title>) and formatted according to DITA naming conventions, while ensuring refs consistency in the DITAmapping

doctest2jama.py

Converts **doctest** XML test reports to CSV format, importable via the DEUTA REST API for importing tests into JAMA. The tool also processes LCOV reports in HTML format to make them independent of CSS stylesheets.

photobook maker

Populates HTML templates for creating online photo albums and websites. Personal project. Commercial website coming soon. Demos of completed projects: <https://slashetc.fr/photobookmaker/demos>

2005 - 2017 Author of **LLOOP Parser**

<https://slashetc.fr/products/lloop>

LLOOP Parser is designed to decode any data stream whose structure can be defined by a formal descriptive language:

- LLOOP Parser allows you to generate C++ parsers and grammar analyzers from a standard BNF / EBNF (Extended BNF) description.
- LLOOP also allows you to generate encoders/decoders capable of processing binary streams from a formal description of binary frames. Binary frames can also be of unlimited complexity.

LLOOP has been used in numerous applications, notably for reading XML files and decoding EVC-DMI communication frames in the SIL2 projects completed at ERSA.

The benefits sought in this tool are:

- its intuitive operation: the analysis is performed from left to right, from top to bottom in the symbol tree; it is therefore easy to design and understand the grammar.
- its versatility, handling all types of data streams;
- the reversibility of the grammatical analysis and its integration with application-level objects, which allows for the reconstruction or modification of the analyzed input data stream. This makes it a suitable tool for conversions/translations, which was one of its initial motivations.

2005 Author of **Makedoc**

<https://slashetc.fr/products/makedoc/>

Makedoc analyzes the content of C and C++ files and generates online documentation in HTML format. The focus is on simplicity and independence from any source code formatting.

Makedoc relies on LLOOP to extract and convert relevant elements for C/C++ source code documentation, which also serves as a grammar analyzer validation tool.

... **File conversions**

- convert/mogrify: cf. [ImageMagick](#)
- asciidoctor (HTML, DocBook)
- pandoc
- PDF converter: pdftocairo, pdftohtml, pdftotext etc.
- [wkhtmltopdf](#)
- awk and other shell tools