

# Demonstration of the `mlbibcontext` program

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# Bibliography processing for ConT<sub>E</sub>Xt

`bib` module in ConT<sub>E</sub>Xt Mk II, integrated into ConT<sub>E</sub>Xt Mk IV.■

Looking at `.bbl` files: comparable to files suitable for `biblatex`  $\implies$  *structures*.■

Formatting 'References' section is deferred to ConT<sub>E</sub>Xt commands.■

End-users get used to put L<sup>A</sup>T<sub>E</sub>X commands inside fields' values.

# Two methods

Building an XML-like version of a .bib file  $\implies$   
ConT<sub>E</sub>Xt Mk IV.■

(Sort operations should be performed by means of Lua  
functions.)■

Using a program comparable with biber or mlbiblatex.

# The mlbibcontext program

Now like mlbiblatex:

```
mlbibcontext job-name sort-keys language-code
```

```
sort-keys (n | y | m | t)*
```

```
language-code (DE | EN | FR | PO)
```

# ConT<sub>E</sub>Xt vs L<sup>A</sup>T<sub>E</sub>X

@CONTEXTPREAMBLE directive.■

L<sup>A</sup>T<sub>E</sub>X commands handled:

```
        \emph  
        \textnormal \textrm  
\textbf \textit \textsl \textsl \textsc \texttt
```

# Doing better

ConTEXt is a kind of black box where the whole process is performed automatically.■

Users should be able to choose their bibliography processor: BIBTEX or another. . . mlbibcontext?■

in which case accurate information should be passed to this program: key for sorting, base language.■

How?■by the command line■or a file written in Scheme■or an XML file.

# A rough interface for a prototype

If you do not make precise your order, your bibliography will be left unsorted.■

`nymt` or other combinations.■

Only ascending orders are reachable.■ Default values for optional information.

# Extending the interface

Proposal:

`y ! nm ! [0] t`

`ym ! [0]`

# Remember that

all the sorts performed by MIBIBT<sub>E</sub>X are *stable*

MIBIBT<sub>E</sub>X often uses a LASTSORTKEY field:■

LASTSORTKEY = 100      LASTSORTKEY = {-273}

■ LASTSORTKEY = {-Inf}      LASTSORTKEY = {+Inf}

ymn<sub>±</sub>

# Going further

Defining a command like `\DeclareSortingScheme` for biblatex.■

(Practically, it would be useful if other fields are used to sort.)■

Save entries as a `.scm` or XML file.■

Get rid of `.aux` files.

# Extending bib module

It handles co-authors but not *collaborators*.

# Using language information

Planned.

# Conclusion

From a technical point of view, developing the `mlbibcontext` program was a worthwhile exercise.■

I did not change  $\text{MLBIBT}_{\text{E}}\text{X}$ 's kernel!■

Rich library to build  $\text{ConT}_{\text{E}}\text{Xt}$  expressions.■

Not yet optimised, forthcoming.

# Schedule

**October** Definitive version of some papers, first optimised version of `mlbibcontext`, installation manual.■

**November** Paper for the ConT<sub>E</sub>Xt group.

**December** Many lectures.■

**January** Enlarged interface. . .