

MI_BibT_EX and Its New Extensions

Jean-Michel HUFFLEN

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MI~~B~~ibT~~E~~X

Provide a 'better BIBT_EX' with particular focus on multilingual features.■

Early attempts in C (a long time ago).■

Now written in Scheme with some specific parts using XSLT.■

.bib files → (S)XML → . . .

Available now!

`http://disc.univ-fcomte.fr/home/~jmhufflen/texts/superreport/
smlbibtex-1.3.tar.gz`

Contact:

`jmhuffle@femto-st.fr`

You need a Scheme interpreter/compiler. . . I personally recommend bigloo.

Installation

Linux and Mac OS X:

```
./configure ...
```

```
make [NOWARNING=yes]
```

```
make install
```

Should work on Windows; I'm looking for a volunteer.

Programs

mlbibtex analogous to BIB_TE_X,■

mlbibtex2xml converter from .bib files to XML ones,■

ar-style for French activity reports,■

hal converter from .bib files to HAL metadata (Bacho_TE_X 2010 & 2011),■

mlbiblatex

mlbibcontext

Direct programs

W.r.t. MIBIBT_EX's terminology:■

the last step is deferred to a program possibly customised by end-users (.bst, XSLT) \Leftarrow *indirect process*;■

all the steps are written in Scheme \Leftarrow *direct process*.

mlbiblatex **and** mlbibcontext

⇒ biblatex package, ConTEXt's bib module.■

[Now ⇒ generalities, 2nd talk ⇒ mlbibcontext]■

.bbl files are *structures*, formatting 'References' sections is deferred to the corresponding typesetting system.

Advantages/drawbacks of MIBibT_EX

MIBIBT_EX less permissive than BIBT_EX!

Type checking for:

AUTHOR EDITOR YEAR MONTH PAGES

LANGUAGE

DAY GENDER LASTSORTKEY TOTALPAGES

Possibly refined \Leftarrow ADDRESS.

New syntax for person names

Jean Le Clerc de la Herverie

first => Jean,

last => Le Clerc de la Herverie



Abbreviating first names:

Henry Rider Haggard, abbr => H. Rider

Syntax for person names (con'd)

Collaborators:

Jean-Michel Hufflen and
Taco Hoekwater with
Hans Hagen



Organisations: *EuroT_EX 2012*

org => Euro\TeX\ 2012,
sortingkey => EuroTeX 2012

MIBibT_EX vs bibl_atex

MIBIBT_EX \Leftarrow extending .bib syntax.■

bibl_atex \Leftarrow adding new fields, e.g., COLLABORATOR, SORTYEAR, . . . ■

At first glance, you can revert to ‘classical’ styles by using bibl_atex■except for YEAR/MONTH/DATE.■

biber uses configuration files, e.g., for abbreviating first names.

Sorting

Multilingual sort procedures for strings.■

Chaining successive criteria is very easy. (Demonstration.)

Encodings

Presently: Latin 1.■

Due to Scheme (R5RS).■

I'm impatiently waiting for the next standard (R7RS).

The m**l**bibl**at**ex program

Lepizig version \Leftarrow uses $\text{BIB}\text{T}_{\text{E}}\text{X}$'s bibl**at**ex.bst style, without sort statement;■

Caribbean version \Leftarrow building .bbl files is wholly programmed by means of Scheme functions;■

Breskens version \Leftarrow 'new' entry types have been added.

The `mlbiblatex` command

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

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

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

Going further

Not the DATE field, but you can use the DAY field for simple dates.■

Enlarging the interface:

```
\usepackage[backend=mlbiblatex,...]{biblatex}
```

with other options, e.g., `sorting`, as with `biber`.

Conclusion

Users do not have to customise the way to build .bbl files \implies *black box*.■

Writing this step using an efficient language.■biber: good but quite inefficient (in Perl!)■

biblatex: good choice of options, but handling some additional fields (such as AUTHORTYPE, EDITORA) is complicated.■

BIB_T_EX and biber sort only strings, not numbers!■They difficultly sort w.r.t. months.■

Interface with an efficient program, implemented using a 'real' programming language.