A Direct Style for ArsTEXnica

Jean-Michel Hufflen

GUIT, Torino

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Jean-Michel Hufflen

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Bibliography Processors

 ${\rm BiB}T_{\!E}\!X \Longleftarrow$ quite old, bibliography styles are written using a very old-fashioned language.

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Bibliography Processors

$$\begin{split} \mathrm{Bib}T_EX &\longleftarrow \text{quite old, bibliography styles are written using a} \\ \text{very old-fashioned language.} \\ \text{biber and the biblatex package} &\longleftarrow \text{better service, but} \\ \text{difficult to revert to 'old' } \\ \mathrm{Bib}T_EX. \end{split}$$

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very old-fashioned language.

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Building **Bibliographies**

difficult to revert to 'old' BibT_EX. For example, DATE field instead of YEAR, MONTH (and DAY).

biber and the biblatex package ← better service, but

 $BibT_EX \leftarrow$ quite old, bibliography styles are written using a

We used to type accented letters with command accents, e.g.:

L'Unit\'{a}

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L'Unit\'{a}

but we do not anymore in LATEX source texts. Entering:

JOURNAL = L'Unità

within a .bib file.

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within a .bib file.

New standard de facto \Longrightarrow UTF 8 (ArsTFXnica, LATFX).

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New standard *de facto* \Longrightarrow UTF 8 (ArsTEXnica, LATEX). bib files using UTF 8.

Some 'old' .bib files in Latin 1, Latin 2, etc. with ${\rm Bib}T_{\!E}\!X8.$

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A long time ago \Leftarrow first version (\simeq 2004, 2005).

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A long time ago \leftarrow first version (\simeq 2004, 2005). Then many experiments, e.g., dealing with *inexact* information \leftarrow GUIT 2014, at Verona.

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Why not before?

I was waiting for the new Scheme standard, making this programming language Unicode-compliant.

$MIBIBT_{F}X$

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As for any Lisp dialect, Scheme's format is the same for programs and data, e.g., (+ 26 10).

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As for any Lisp dialect, Scheme's format is the same for programs and data, e.g., (+ 26 10). Useful for customisation (cf. Emacs).

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As for any Lisp dialect, Scheme's format is the same for programs and data, e.g., (+ 26 10).
Useful for customisation (cf. Emacs).
Scheme is a functional programming language:

(lambda (f2) (f2 26 10))

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nclusion

Useful for *customisation* (cf. Emacs).
Scheme is a *functional* programming language:

(lambda (f2) (f2 26 10))

As for any Lisp dialect, Scheme's format is the same for

When you design a *bibliography style*, you consider data and decide how to organise them.

How?

MIBibT_{FX} can:

interpret a .bst file, e.g., arstexnica.bst;

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How?

$MIBIBT_{F}X$ can:

- interpret a .bst file, e.g., arstexnica.bst;
- apply an XSLT stylesheet to (S)XML format used for bibliographies;

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How?

$MIBIBT_{FX}$ can:

- interpret a .bst file, e.g., arstexnica.bst;
- apply an XSLT stylesheet to (S)XML format used for bibliographies;
- run a *direct* bibliography style, wholly written in Scheme.

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Building **Bibliographies**

Make precise the encoding at the beginning of a .bib file:

%encoding = utf8

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Make precise the encoding at the beginning of a .bib file:

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Many byte-based encodings are processed now (Latin 1, Latin 2, UTF 8, \dots)

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Make precise the encoding at the beginning of a .bib file:

%encoding = utf8

Many byte-based encodings are processed now (Latin 1, Latin 2, UTF 8, ...) but not UTF 16. If this directive is absent, MIBIB T_EX tries to guess the encoding by means of the operating system interface. Personally, I do not recommend that.

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Make precise the encoding at the beginning of a .bib file:

%encoding = utf8

Many byte-based encodings are processed now (Latin 1, Latin 2, UTF 8, ...) but not UTF 16. If this directive is absent, MlBibTEX tries to guess the encoding by means of the operating system interface. Personally, I do not recommend that. Default encoding is Latin 1, but can (will) be changed.

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You can use the DATE field, even if you use 'old' styles. Fields SORTTITLE and SORTYEAR recognised and processed.

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Pay attention!! The latter is less permissive than the former!

BIBTEX vs MIBIBTEX

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Pay attention!! The latter is less permissive than the former! Your .bib files will be cleaned up from most typing mistakes, but you will need some steadiness to reach this result.

BIBT_EX vs MIBIBT_EX

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MIBibTeX for .bib files maintainers

Pay attention!! The latter is less permissive than the former! Your .bib files will be cleaned up from most typing mistakes, but you will need some steadiness to reach this result. Unrecognised field names \iff (warning messages).

BIBTEX vs MIBIBTEX

Pay attention!! The latter is less permissive than the former! Your .bib files will be cleaned up from most typing mistakes, but you will need some steadiness to reach this result. Unrecognised field names \(\bigcup \left(warning messages \right). \)
Numeric or formatted fields, e.g., YEAR or MONTH.

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BIBT_FX vs MIBIBT_FX

Pay attention!! The latter is less permissive than the former! Your .bib files will be cleaned up from most typing mistakes, but you will need some steadiness to reach this result. Unrecognised field names \(\leftarrow\) (warning messages). Numeric or formatted fields, e.g., YEAR or MONTH.

Fields related to person names or URLs.

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... or ask me to update the direct style, providing more checks.

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Interface with XML.

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MIRihTeX for ArsT_EXnica

No bug?

I cannot ensure that,

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No bug?

I cannot ensure that, I am not sure to be able to promise a money amount for a person finding a bug, as Donald Knuth did for TEX, A Direct Style for ArsTEXnica

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No bug?

I cannot ensure that, I am not sure to be able to promise a money amount for a person finding a bug, as Donald Knuth did for TEX, but I have not found bugs for a long time.

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Availabily

Source files \iff immediate.

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Availabily

Source files $\begin{tabular}{l} \longleftrightarrow \end{tabular}$ immediate. Will be available at the CTAN $\begin{tabular}{l} \longleftrightarrow \end{tabular}$ re-organisation in progress.

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Conclusion

Source files ← immediate.

Will be available at the CTAN \Longrightarrow re-organisation in progress.

End-user manual planned for the beginning of November \Longrightarrow looking for an Italian translator.

44/13/14

Last words

That's a gift: try it for free! ©

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