From MlBib T_EX 1.3 to 1.4

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MIBIBT_EX 1.2 \iff based on XML-like syntax for bibliographies, specified by a DTD.

Which programming language?

C?

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+ SXML format + same format for programs and data \Longrightarrow Scheme.

$MIBibT_{E}X$ 1.3

Provide actual programming tools for operations clearly related to programming (e.g., lexicographic orders).

$MlBibT_{F}X$ 1.3

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Some .bib files may be rejected because of type errors: e.g., the YEAR field *must* be a year.

Analysis

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Applying additional checking is (quite) easy.

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Used for a few applications, but users were fully satisfied.

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- Producing institutions' activity report.
- Populating an open-archive site.
- Some Sci-Fi bibliographies.

MIBibT_FX 1.3 for a long time

Release numbers identified by geographical names.

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Presently: Verona's version.

.bib \Longrightarrow (S)XML.

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Planned: Refer \Longrightarrow SXML.

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Also: $\triangle T_F X \Longrightarrow actions$.

Additions

Multilingual annotations.

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New syntax for person names by means of keywords.

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Namespaces in order to solve name conflicts among .bib files \iff BachoTEX 2014.

Inexact years (option)

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'?' for an unknown digit: 154?, 15??.

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$$YEAR = \{ca1492\}$$
 $YEAR = \{ca-429\}$

'?' for an unknown digit: 154?, 15??.

An unknown digit cannot be followed by an exact one.

Surmised or unknown authors

Ordering years

An inexact year is ranked after the same exact year:

1492 < ca1492

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An inexact year is ranked after the same exact year:

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A question mark is ranked after the digit year it can replace.

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An inexact year is ranked after the same exact year:

A question mark is ranked after the digit year it can replace.

Inexact years are sorted according to the number of occurrences of the '?' sign:

Ordering names

An unknown author is ranked before any known one:

?? < Jerzy B. Ludwichowski

Ordering names

An unknown author is ranked *before* any known one:

?? < Jerzy B. Ludwichowski

An author with uncertain identity is ranked *after* the same 'sure' author:

Bogus{\l}aw Jackowski < ?? Bogus{\l}aw Jackowski</pre>

From MIBib T_EX 1.3 to 1.4

Scheme's standard has changed:

$$R^5RS \longrightarrow (R^6RS) \longrightarrow R^7RS$$

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Dealing with encodings.

Encoding directives for .bib files.

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Saving a bibliography as an XML file.

- Encoding directives for .bib files.
- Encoding output.
- Only byte-based encodings will be available for the 1st release.
 - Saving a bibliography as an XML file.
 - XML format specified by means of XML Schema.

Towards other projects

Programs mlbiblatex and mlbibcontext.

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COLLABORATOR, TRADUCTOR \Longrightarrow next version.

A point of view

Several projects of improving expressive power of bibliography database files exist, but they follow incompatible directions.

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Maybe should a common project put a new standard into action?

A programmer's point of view

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Since this time, we have been able to add many features 'original' MIBIBT $_{\rm E}\! {\rm X}.$

So we can be confident with the new version in preparation and we can think that we will go on!