BibLATEXand Biber

Philip Kime

ntroduction BibLAT_EX

Statistics and Features

Some Statistics

Present and

Future

BibLete Xand Biber, some history and plans for the future

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19.10.2019 / DANTE Herbsttagung

What is BibLATEX?

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BibLATEX

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 BibLATEX is a comprehensive bibliography and references typesetting system for LATEX

What is BibLATEX?

RIDE/Exaud Riber

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BibLET_EX

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- BibLATEX is a comprehensive bibliography and references typesetting system for LATEX
- Styles are completely separate from the backend (BibT_EX, Biber)

What is BibLATEX?

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Introductio BibĿt∈X

Biber

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- ► BibLateX is a comprehensive bibliography and references typesetting system for LateX
- Styles are completely separate from the backend (BibT_EX, Biber)
- ▶ It uses the .bb1 file like a database

Origins of BibLATEX

Started in 2006 by Philipp Lehman ...

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BibLAT⊨X

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BibleT_EX

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- Started in 2006 by Philipp Lehman ...
- ... who disappeared in 2011

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- ... who disappeared in 2011
- Sophisticated styles for humanities and data/style separation

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- Started in 2006 by Philipp Lehman ...
- ... who disappeared in 2011
- Sophisticated styles for humanities and data/style separation
- Started to run into limitations imposed by BibT_EX as backend in 2008

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Biber

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 Biber is the default backend for BibleTEX, written for BibleTEX and designed to overcome BibTEX limitations

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▶ Biber is the default backend for BiblATEX, written for BiblATEX and designed to overcome BibTEX limitations

Its main job is sorting (full multi-field, UCA with CLDR tailoring)

- Biber is the default backend for BibLATEX, written for BibLATEX and designed to overcome BibLEX limitations
- Its main job is sorting (full multi-field, UCA with CLDR tailoring)
- It also does a **lot** of other things ...

Origins of Biber

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Started around 2008 by François Charette as dedicated BibleTEX backend

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- PL put me in touch with FC when I found limitations in BibT_EXpreventing implementation of APA style

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- Started around 2008 by François Charette as dedicated BibLateX backend
- ▶ PL put me in touch with FC when I found limitations in BibT_EXpreventing implementation of APA style
- ▶ My first commit April 14th 2009

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- Started around 2008 by François Charette as dedicated BibLateX backend
- ▶ PL put me in touch with FC when I found limitations in BibT_FXpreventing implementation of APA style
- My first commit April 14th 2009
- ▶ Became sole developer early 2011

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~4000 total commits

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BibleT_EX Biber

> Statistics and Features

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- ~4000 total commits
- ~250k total manual downloads

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- ~4000 total commits
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- ➤ ~4000 total commits
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- ~1k issues/bugs, 95% resolved

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Some Statistics

- ~4000 total commits
- ~250k total **manual** downloads
- ~50k lines of code
- ~1k issues/bugs, 95% resolved
- Germany is largest user (~33%) by Sourceforge downloads (twice US)

Features

Full Unicode (UTF-8) support including auto-reencoding and LaTEX ← UTF-8 conversion

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BIDETEX

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Some Statistics

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Features

- Full Unicode (UTF-8) support including auto-reencoding and LaTEX ← UTF-8 conversion
- Best-in-class sorting

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Some Statistics

Full Unicode (UTF-8) support including auto-reencoding and LATEX↔UTF-8 conversion

- Best-in-class sorting
- Completely customisable datamodel

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Full Unicode (UTF-8) support including auto-reencoding and LaTEX↔UTF-8 conversion

- Best-in-class sorting
- Completely customisable datamodel
- Dynamic data mapping

Some Statistics

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Full Unicode (UTF-8) support including auto-reencoding and Late X ← UTF-8 conversion

- Best-in-class sorting
- Completely customisable datamodel
- Dynamic data mapping
- Automatic name and name list disambiguation

Some Statistics

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► Full Unicode (UTF-8) support including auto-reencoding and LATEX↔UTF-8 conversion

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4 D > 4 A > 4 B > 4 B > B = 40 C

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- Generalised name support
- Sophisticated label auto-disambiguation and generation

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4 D > 4 P > 4 E > 4 E > 9 Q P

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- Biber Tool mode
- Generalised name support
- Sophisticated label auto-disambiguation and generation
- Customisable data inheritance
- Full support for all types of "related" entries

29.04.2009 Started on .bcf format (XML) which is ~2000 lines as opposed to the **one** line original control file format

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Some Statistics

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40 05 0	200 14 16 01 1 1 01

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methods

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06.2011 Datasource mapping functionality

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 - 06.2011 customisable labelalpha and auto-disambiguation methods
 - 06.2011 Datasource mapping functionality
 - 04.2012 Generalised sorting lists to make multiple, differently sorted bibliographies and other bib lists possible

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Some Statistics

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 - 2012 Generalised, explicit datamodel implemented and passed in .bcf

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12.2012 Biber Tool mode

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04.2012	Generalised sorting lists to make multiple,	
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2012	possible	
2012	Generalised, explicit datamodel implemented and passed in .bcf	
12 2012	Biber Tool mode	
	Data annotations, extended name format, full	
2010-2017	generalisation of all aspects of name handling	
	(sorting key, name parts etc.), ISO8601 date	
	handling	
	Trainuling $+\Box + + \Box + + + \Box + + + + + + + + + + + + + + + + + + + +$	

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Philip Kime

Present

BibLATEX- Philip Kime and Moritz Wemheuer

Personnel

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- ▶ BibLATEX- Philip Kime and Moritz Wemheuer
- Biber Philip Kime (plus release builders)

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Multiscript support

Multiscript support

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- Multiscript support
- Quick-start documentation
- ▶ Granular regression test setup for BibLATEX

- Multiscript support
- Quick-start documentation
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- ▶ "Stand-alone" . bb1

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- Multiscript support
- Quick-start documentation
- ▶ Granular regression test setup for BibLATEX
- ▶ "Stand-alone" .bbl
- ► Finding someone to help support Biber

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