

The biblatex-ext Bundle

Extensions for the biblatex standard styles

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1. Introduction

1.1. About

The biblatex-ext bundle provides an extended version of the standard styles that come with biblatex. For each standard style this bundle provides a style with the same name prefixed with ext- which can be used as a drop-in replacement for the standard style – for example, the replacement for authoryear-icomp is called ext-authoryear-icomp.

The aim of the styles of this bundle is to offer a simple interface to change some of the stylistic decisions made for the standard styles that would otherwise need cumbersome and tedious redefinitions. Additionally, some customisation features that were not deemed appropriate for inclusion in the biblatex kernel are provided. Other than that the styles are as close to the standard styles as possible. They do not attempt to offer options or commands for customisations that are already fairly simple to achieve with the tools provided by the standard styles.¹

¹Please be gentle and allow for a lot of wiggle room for what exactly ‘simple’ means. And don’t get mad if

The initial motivation for this bundle was what has now become the option `inname-beforetitle`. It is fairly straightforward to print the name of the editor of an `@incollection` before the `booktitle`. But if one does not want to resort to clever tricks,² the modifications needed to do this in a stable, safe and clean manner by redefining the bibliography drivers can easily amass hundred lines of code – code you may not want to see in your preamble. Some contributed `biblatex` styles already place the editor in the desired position, but you may not want to commit to the other changes implied by switching to one of those styles. Especially styles written for the sole purpose of implementing the requirements of a particular style guide may have to go to great lengths to do so and are therefore not as easily modified as the standard styles. The styles of this bundle, on the other hand, try to stay as close to the standard styles as possible both in output and implementation to allow you to customise the styles with minimum additional effort over the standard styles.

A few words of warning: The styles of this bundle are only really useful if you want to use one of their features to avoid having to go through the lengthy and tedious redefinitions the standard styles would require. Before you get involved in modifying the standard styles or one of the styles of this bundle, you may want to have a look at the host of other styles available for `biblatex`,³ maybe you are lucky and the style you are looking for has already been implemented by someone else. As was the intention, most methods to modify the standard styles are also applicable to the styles of this bundle, but you may break some of their features if you happen to modify something that the `ext-` styles redefine themselves. While many contributed `biblatex` styles are examples of good `biblatex` style coding, this can not be said of all of the files included in this bundle. Especially the citation styles for compact citations have to work harder to implement the citation delimiter feature properly. So if you want to get inspired for your `biblatex` coding, be warned that terrible things lurk in the `.cbx` files. The standard `.cbx` files will give you a much better impression of how things should be done.

1.2. Requirements

The use of the styles requires a current version of the `biblatex` package. At the time of writing the latest version of `biblatex` is 3.11 (dated 2018/02/20), that version is required for the styles to work properly. A warning will be issued if you use an older version. You may choose to ignore that warning, but the styles can not be guaranteed to work properly in that case: you might get other warnings or errors, and some features of the style might just fail silently.

Use of the Biber backend is strongly encouraged. Most of the new features of this bundle do not require Biber explicitly in their implementation, but many `biblatex` standard

the principle is not followed at all times and the occasional solution for things that already are ‘simple enough’ pop up here and there.

²See <https://tex.stackexchange.com/q/122218/> and <https://tex.stackexchange.com/q/173638/> for example.

³<https://www.ctan.org/topic/biblatex>

features only work properly with Biber.

1.3. Compatibility with earlier versions

In an ideal world all changes to the styles in this bundle would be fully backwards compatible. Unfortunately we do not live in this ideal world. Most changes to this bundle should introduce new features that have little relevant impact on existing functionality. But the occasional change may have more lasting consequences and may cause existing customisations to fail. In fact all changes have the potential to break someone's code, since biblatex styles have little to no distinction between public and internal code. Still, some changes are more likely to be problematic than others and those should be kept to a minimum. They can, however, be required to move development forward.

If possible, backwards compatibility measures that allow old code to continue to work are in place. Sometimes that is not feasible and in those cases the next best solution is to warn if old code is used, so please check the log file for warnings – especially after an update. But at times not even that is possible, so it is always a good idea to consult the change history after an update and to examine the output with extra scrutiny. Higher-level changes are found in the revision history in section 7, more technical changes and commentary can be found in CHANGES.md, the full set of changes can be investigated by comparing the tagged and publicly available source code.

1.4. Installation

This style bundle is available on CTAN.⁴ The current release is also available in MikTeX and TeX live 2018 or newer. If at all possible you should install this bundle via your TeX distribution (using MikTeX Console⁵ or tlmgr for TeX live⁶). If you must install this package manually, get the files from CTAN and install the .bbx, .cbx and .def files preferably to tex/latex/biblatex-ext of your local or home TeX tree, the other files (CHANGES.md, README.md, biblatex-ext.tex, biblatex-ext.pdf and biblatex-ext-examples.bib) go into doc/latex/biblatex-ext. You may have to refresh your file name database afterwards, so TeX can find the files.

1.5. License

Permission is granted to copy, distribute and/or modify this software under the terms of the LaTeX Project Public License, version 1.3c⁷ or (at your option) any later version⁸. This bundle is maintained by Moritz Wemheuer (©2017–2018).

⁴<https://ctan.org/pkg/biblatex-ext>

⁵<https://miktex.org/howto/miktex-console>

⁶<https://www.tug.org/texlive/pkginstall.html>

⁷<https://www.latex-project.org/lppl/lppl-1-3c.txt>

⁸<https://www.latex-project.org/lppl.txt>

1.6. Feedback

You can use the `biblatex-ext` project page on GitHub⁹ to report bugs and submit suggestions and feature requests, or you can do so via email.

If you do not want to report a bug or request a feature, but are simply in need of assistance, you might want to consider posting your question on the `comp.text.tex` newsgroup or `TEX – LATEX Stack Exchange`.¹⁰ If after a consultation on one of these sites it turns out you have happened upon a bug or that you can formulate a request for a new feature that could be useful, please head over to GitHub or send me an email.

2. Use

The `biblatex-ext` bundle is a collection of `biblatex` style files. You can load the styles exactly as you would load the standard styles:

```
\usepackage[style=<style>]{biblatex}
```

The naming of the styles follows the scheme `ext-⟨standard style⟩`, e.g., the style corresponding to `authoryear-icomp` is called `ext-authoryear-icomp`.

This manual assumes familiarity with the concepts of `biblatex` and does not attempt to explain any of the standard `biblatex` features, so you may want to have the `biblatex` documentation¹¹ at hand to fully appreciate what is going on. If you are new to `biblatex` the three hundred odd pages of the manual can be hard to stomach at first, so you may want to have a look at a more gentle introduction. Of the many introductory texts and tutorials available on the internet¹² the author particularly likes Knut Hegna and Dag Langmyhr's *Local Guide to biblatex*¹³ and Paul Stanley's *biblatex – An Easier Read*¹⁴. French speakers may want to consider Maïeul Rouquette's *(Xe)L_AT_EX Appliqué aux sciences humaines* available on CTAN¹⁵. If you read German you may be interested in Dominik Waßenhoven's two-part series *Bibliographien erstellen mit biblatex*¹⁶ in *Die T_EXnische Komödie* 2/2008¹⁷ (pp. 53–75) and 4/2008¹⁸ (pp. 31–51). Please keep in mind that some of these texts were written a while ago and that `biblatex` is actively developed: technical details may have changed and new features make some things easier.

⁹<https://github.com/moewew/biblatex-ext>

¹⁰<https://tex.stackexchange.com/questions/tagged/biblatex>

¹¹<http://mirrors.ctan.org/macros/latex/contrib/biblatex/doc/biblatex.pdf>

¹²<https://tex.stackexchange.com/q/13509/35864>

¹³<http://dag.at.ifi.uio.no/public/doc/biblatex-guide.pdf>

¹⁴<https://github.com/PaulStanley/biblatex-tutorial/releases>

¹⁵<https://ctan.org/pkg/latex-sciences-humaines>

¹⁶<http://biblatex.dominik-wassenhoven.de/dtk.shtml>

¹⁷<http://www.dante.de/DTK/Ausgaben/2008-2.pdf>

¹⁸<http://www.dante.de/DTK/Ausgaben/2008-4.pdf>

3. Styles

This bundle provides an extended version of each standard style as well as a few new styles.

3.1. Standard styles

Please refer to the biblatex documentation¹⁹ and the style examples²⁰ for a more detailed description of each standard style. The relations between the styles are exactly as in their standard counterparts. The ext- styles only build on top of the standard files.

ext-numeric An extended version of the standard numeric style for citations with numeric labels.

[1, 2, 5, 6, 7]

ext-numeric-comp An extended version of the standard numeric-comp style. Similar to ext-numeric, but citation labels are compressed to give '[1–3]' instead of '[1, 2, 3]'.

[1, 2, 5–7]

ext-numeric-verb An extended version of the standard numeric-verb style. This style is similar to the numeric style, but each citation label is in its own set of brackets: '[1], [2], [3]'.

[1], [3], [5], [6], [7]

ext-alphabetic An extended version of the standard alphabetic style for citations with alphabetic labels derived from author name and year.

[SR98, Knu86c]

ext-alphabetic-verb An extended version of the standard alphabetic-verb style. This style is based on ext-alphabetic, but like ext-numeric-verb places each citation label in its own pair of brackets: '[SR98], [Knu86c]'.

[SR98], [Knu86c]

¹⁹<http://mirrors.ctan.org/macros/latex/contrib/biblatex/doc/biblatex.pdf>

²⁰<http://mirrors.ctan.org/macros/latex/contrib/biblatex/doc/examples/>

ext-authoryear An extended version of the standard authoryear style for citations using author name and year.

Sigfridsson and Ryde 1998

ext-authoryear-comp An extended version of the standard authoryear-comp style. The style is based on the author-year citations of ext-authoryear, but several works by the same author are compressed by not displaying the author multiple times: 'Knuth 1984, 1986' instead of 'Knuth 1984; Knuth 1986'.

Knuth 1984, 1986

ext-authoryear-ibid An extended version of the standard authoryear-ibid style. This style is similar to ext-authoryear, but repeated citations are replaced with 'ibidem'.

Knuth 1984 ibid.

ext-authoryear-icom An extended version of the standard authoryear-icom style. This style combines the two styles ext-authoryear-comp and ext-authoryear-ibid.

Knuth 1984, 1986 Sigfridsson and Ryde 1998 ibid.

ext-authortitle An extended version of the standard authortitle style for citations by author and title.

Maron, *Animal Triste*

ext-authortitle-comp An extended version of the standard authortitle-comp style. This style is based on ext-authortitle and compresses several citations by the same author just like ext-authoryear-comp: 'Aristotle, *Physics, Poetics*' instead of 'Aristotle, *Physics*; Aristotle, *Poetics*'.

Aristotle, *Physics, Poetics*

ext-authortitle-ibid An extended version of the standard authortitle-ibid style. This style is similar to ext-authortitle, but replaces repeated citations of the same work with 'ibidem'.

Maron, *Animal Triste* ibid.

ext-authortitle-icomp An extended version of the standard `authortitle-icomp` style. This style combines `ext-authortitle-comp` and `ext-authortitle-ibid`.

Aristotle, *Physics, Poetics* Maron, *Animal Triste* *ibid*.

ext-authortitle-terse An extended version of the standard `authortitle-terse` style. This style is similar to `ext-authortitle`, but the title is omitted in citations if there is only one work by the relevant author.

Sigfridsson and Ryde Aristotle, *Physics*; Aristotle, *Poetics*

ext-authortitle-tcomp An extended version of the standard `authortitle-tcomp` style. This style combines `ext-authortitle-terse` and `ext-authortitle-comp`.

Sigfridsson and Ryde Aristotle, *Physics, Poetics*

ext-authortitle-ticomp An extended version of the standard `authortitle-ticomp` style. This style combines `ext-authortitle-terse`, `ext-authortitle-comp` and `ext-authortitle-ibid`.

Aristotle, *Physics, Poetics* Sigfridsson and Ryde *ibid*.

ext-verbose An extended version of the standard `verbose` style. This style shows the full bibliographic reference the first time a work is cited.

ext-verbose-ibid An extended version of the standard `verbose-ibid` style. Based on `ext-verbose`, repeated citations to the same work are replaced with ‘*ibidem*’.

ext-verbose-note An extended version of the standard `verbose-note` style. Based on `ext-verbose` and intended for use in footnotes, subsequent citations link back to the footnote the entry was cited at first and in full.

ext-verbose-inote An extended version of the standard `verbose-inote` style. Similar to `verbose-note`, but repeated citations to the same work are replaced with ‘*ibidem*’.

ext-verbose-trad1 An extended version of the standard `verbose-trad1` style. This style makes extensive use of scholarly abbreviations and is otherwise similar to `ext-verbose`.

ext-verbose-trad2 An extended version of the standard `verbose-trad2` style. The style is similar to `ext-verbose-inote` and uses scholarly abbreviations to shorten citations.

ext-verbose-trad3 An extended version of the standard `verbose-trad3` style. This style is similar to `ext-verbose-trad2`.

3.2. New styles

The following styles are not mere extensions of a particular standard style, instead they implement new combinations or extensions of the concepts available in the standard styles.

ext-authoryear-ecomp An author-year citation that is even more compact than `ext-authoryear-comp`, it compresses lists of extradata letters from ‘Knuth 1986a,b,c’ to ‘Knuth 1986a–c’.

Sigfridsson and Ryde 1998 Knuth 1986a–c

ext-authoryear-iecomp An author-year citation that is even more compact than `ext-authoryear-icomp`, it compresses lists of extradata letters from ‘Knuth 1986a,b,c’ to ‘Knuth 1986a–c’.

Sigfridsson and Ryde 1998 *ibid.* Knuth 1986a–c

ext-authoryear-terse An author-year citation style that suppresses years for author lists with only one work in the bibliography. This style is like `ext-authortitle-terse`, but it is based on `ext-authoryear` and not on `ext-authortitle`.

Sigfridsson and Ryde Knuth 1984 Knuth 1986

ext-authoryear-tcomp A compact author-year citation style that suppresses years for author lists with only one work in the bibliography. This style is like `ext-authortitle-tcomp`, but it is based on `ext-authoryear` and not on `ext-authortitle`.

Sigfridsson and Ryde Knuth 1984, 1986

ext-authoryear-tecomp A compact author-year citation style that combines `ext-authoryear-tcomp` and `ext-authoryear-ecomp`.

Sigfridsson and Ryde Knuth 1984, 1986a–c

ext-authoryear-ticomp A compact author-year citation style with ‘*ibidem*’ function that suppresses years for author lists with only one work in the bibliography. This style is like `ext-authortitle-ticomp`, but it is based on `ext-authoryear` and not on `ext-authortitle`.

Sigfridsson and Ryde *ibid.* Knuth 1984, 1986

ext-authoryear-teicomp A compact author-year citation style that combines ext-authoryear-ticomp and ext-authoryear-iecomp.

Sigfridsson and Ryde *ibid.* Knuth 1984, 1986a–c

4. Options

All options of the biblatex package are supported and each style supports the options of its standard counterpart.

4.1. General options

Additionally, all styles support the following options in global, per-type and per-entry scope. The default values are such that the styles can be used as drop-in replacement for the standard files without significant changes in output.

`articlein=true, false`

default: true

Whether or not to display ‘in:’ before the journal information in @article entries. All other entry types are not affected by this option.

`articlein=true`

Sigfridsson, Emma and Ulf Ryde (1998). ‘Comparison of methods for deriving atomic charges from the electrostatic potential and moments’. **In:** *Journal of Computational Chemistry* 19.4, pp. 377–395.

Westfahl, Gary (2000b). ‘The True Frontier. Confronting and Avoiding the Realities of Space in American Science Fiction Films’. **In:** *Space and Beyond. The Frontier Theme in Science Fiction*. Ed. by Gary Westfahl. Westport, Conn. and London: Greenwood, pp. 55–65.

`articlein=false`

Sigfridsson, Emma and Ulf Ryde (1998). ‘Comparison of methods for deriving atomic charges from the electrostatic potential and moments’. *Journal of Computational Chemistry* 19.4, pp. 377–395.

Westfahl, Gary (2000b). ‘The True Frontier. Confronting and Avoiding the Realities of Space in American Science Fiction Films’. **In:** *Space and Beyond. The Frontier Theme in Science Fiction*. Ed. by Gary Westfahl. Westport, Conn. and London: Greenwood, pp. 55–65.

`citexref=true, false`

default: false

This option controls if @inbook, @incollection and @inproceedings entries that are tied to a parent entry with xref or crossref should cite their parent in the bibliography if the parent is listed in the bibliography as a separate entry. With the default setting citexref=false the parent is not cited, the entry is shown as in the standard styles. If the option is set to true, the block following the ‘in:’ is replaced by a citation to the parent entry. The

option itself does *not* cause the parent entry to be added to the bibliography, this needs to happen either explicitly by citing the parent (this includes \nocite) or implicitly via the minxrefs or mincrossrefs option.

`citexref=true`

Westfahl, Gary (2000b). 'The True Frontier. Confronting and Avoiding the Realities of Space in American Science Fiction Films'. In: **Westfahl 2000a**, pp. 55–65.

`citexref=false`

Westfahl, Gary (2000b). 'The True Frontier. Confronting and Avoiding the Realities of Space in American Science Fiction Films'. In: *Space and Beyond. The Frontier Theme in Science Fiction*. Ed. by Gary Westfahl. Westport, Conn. and London: **Greenwood**, pp. 55–65.

`innamebeforetitle=true, false`

default: false

Whether or not the editor should be moved before the booktitle field for @inbook, @in-collection and @inproceedings entries.

`innamebeforetitle=true`

Pines, Shlomo (1979). 'The Limitations of Human Knowledge According to Al-Farabi, ibn Bajja, and Maimonides'. In: **Isadore Twersky, ed.** *Studies in Medieval Jewish History and Literature*. Cambridge, Mass.: Harvard University Press, pp. 82–109.

`innamebeforetitle=false`

Pines, Shlomo (1979). 'The Limitations of Human Knowledge According to Al-Farabi, ibn Bajja, and Maimonides'. In: *Studies in Medieval Jewish History and Literature*. **Ed. by Isadore Twersky**. Cambridge, Mass.: Harvard University Press, pp. 82–109.

`innameidem=true, false`

default: false

Whether or not the editor of the booktitle for the entry types @inbook, @in-collection and @inproceedings is replaced by 'idem' in case the editor and author name lists coincide. This option only has an effect if innamebeforetitle is set to true.

`innameidem=true`

Gaonkar, Dilip Parameshwar (2001b). 'On Alternative Modernities'. In: **idem, ed.** *Alternative Modernities*. Ed. by Dilip Parameshwar Gaonkar. Durham and London: Duke University Press, pp. 1–23.

`innameidem=false`

Gaonkar, Dilip Parameshwar (2001b). ‘On Alternative Modernities’. In: **Dilip Parameshwar Gaonkar, ed.** *Alternative Modernities*. Ed. by Dilip Parameshwar Gaonkar. Durham and London: Duke University Press, pp. 1–23.

`maintitleaftertitle=true, false`

default: false

Whether or not the maintitle is printed after the title or booktitle of the work. If `maintitleaftertitle` is true, the volume field will be printed with the `volumeof` format.

`maintitleaftertitle=true`

Knuth, Donald E. (1984). *The T_EX book*. Vol. A of *Computers & Typesetting*. Reading, Mass.: Addison-Wesley.

`maintitleaftertitle=false`

Knuth, Donald E. (1984). *Computers & Typesetting*. Vol. A: *The T_EX book*. Reading, Mass.: Addison-Wesley.

4.2. Style-specific options

The dashed option of the `authoryear-` and `authortitle-` like bibliography styles allows for finer control over the dashes now.

`dashed=true, false, fullhash, bibnamehash`

default: true

This option controls whether or not recurring lists of authors/editors in the bibliography are replaced with a dash. The standard values `true` and `false` are still valid and give the exact same output as in the standard styles. This means that the output is fully compatible with the standard styles. The new values `fullhash` and `bibnamehash` differ in how exactly they determine if a list of authors/editors is the same as the previous.

true An alias for `fullhash`.

false Disable this feature.

bibnamehash Replace recurring name lists with a dash. Compare name lists using `bibnamehash`, taking into account only names that are actually listed in the bibliography account.

fullhash Replace recurring name lists with a dash. Compare name lists using `fullhash`, taking into account all names in the list, even those that are truncated and do not appear in the bibliography.

Assuming maxnames=1 and no name list disambiguation (uniquelist=false), the four entries

```
@book{appleby:civ,  
  author = {Humphrey Appleby},  
  title  = {On the Importance of the Civil Service},  
  date   = {1980},  
}  
  
@book{appleby:abl,  
  author = {Humphrey Appleby},  
  title  = {On the Ablative in Greek},  
  date   = {1982},  
}  
  
@book{elk:bronto,  
  author = {Elk, Anne and Hacker, James and Rumpo, Syd},  
  title  = {On the Theory of Brontosauruses},  
  date   = {1972},  
}  
  
@book{elk:enio,  
  author = {Elk, Anne and Hacker, James and Pode, Eric},  
  title  = {On the Theory of Einiosauruses},  
  date   = {1973},  
}
```

give

dashed=false

Appleby, Humphrey (1980). *On the Importance of the Civil Service*.
Appleby, Humphrey (1982). *On the Ablative in Greek*.
Elk, Anne et al. (1972). *On the Theory of Brontosauruses*.
Elk, Anne et al. (1973). *On the Theory of Einiosauruses*.

dashed=bibnamehash

Appleby, Humphrey (1980). *On the Importance of the Civil Service*.
— (1982). *On the Ablative in Greek*.
Elk, Anne et al. (1972). *On the Theory of Brontosauruses*.
— (1973). *On the Theory of Einiosauruses*.

dashed=fullhash

Appleby, Humphrey (1980). *On the Importance of the Civil Service*.

— (1982). *On the Ablative in Greek*.

Elk, Anne et al. (1972). *On the Theory of Brontosauruses*.

Elk, Anne et al. (1973). *On the Theory of Einiosauruses*.

With `dashed=bibnamehash` the dash replaces the name list if they are indistinguishable in the bibliography, while with `dashed=fullhash` the lists are only replaced if they are indistinguishable in the data source.

The `introcite` option is available for the bibliography styles of the `authoryear` and `authortitle` family. It can not be used with citation styles of the `verbose` family.

`introcite=false, plain, label`

default: false

This option controls whether or not the citation label is repeated in the bibliography. There are two possible output formats.

`false` Do not show the citation label in the bibliography.

`plain` Show the citation label at the beginning of an entry.

`label` Show the citation label as the label of a list similar to the numeric or alphabetic styles.

The difference between `plain` and `label` is that the former simply prints the citation label at the beginning of the entry, while the latter prints the citation label similar to the item labels in a list or the numeric labels in a numeric bibliography.

introcite=false

Knuth, Donald E. (1984). *Computers & Typesetting*. Vol. A: *The T_EX book*. Reading, Mass.: Addison-Wesley.

Knuth, Donald E. (1986a). *Computers & Typesetting*. Vol. B: *T_EX: The Program*. Reading, Mass.: Addison-Wesley.

Sigfridsson, Emma and Ulf Ryde (1998). ‘Comparison of methods for deriving atomic charges from the electrostatic potential and moments’. In: *Journal of Computational Chemistry* 19.4, pp. 377–395.

introcite=plain

Knuth 1984: Knuth, Donald E. (1984). *Computers & Typesetting*. Vol. A: *The T_EX book*. Reading, Mass.: Addison-Wesley.

Knuth 1986a: Knuth, Donald E. (1986a). *Computers & Typesetting*. Vol. B: *T_EX: The Program*. Reading, Mass.: Addison-Wesley.

Sigfridsson and Ryde 1998: Sigfridsson, Emma and Ulf Ryde (1998). ‘Comparison of methods for deriving atomic charges from the electrostatic potential and moments’. In: *Journal of Computational Chemistry* 19.4, pp. 377–395.

introcite=label

Knuth 1984 Knuth, Donald E. (1984). *Computers & Typesetting*. Vol. A: *The T_EX book*. Reading, Mass.: Addison-Wesley.

Knuth 1986a Knuth, Donald E. (1986a). *Computers & Typesetting*. Vol. B: *T_EX: The Program*. Reading, Mass.: Addison-Wesley.

Sigfridsson and Ryde 1998
Sigfridsson, Emma and Ulf Ryde (1998). ‘Comparison of methods for deriving atomic charges from the electrostatic potential and moments’. In: *Journal of Computational Chemistry* 19.4, pp. 377–395.

The label produced by the plain option can be customised as follows.

`\introcitepunct` The punctuation insterted between the label and the rest of the entry with `introcite=plain`. The default value is a colon followed by a space.

Sigfridsson and Ryde 1998: Sigfridsson, Emma and Ulf Ryde (1998). ‘Comparison of methods for deriving atomic charges from the electrostatic potential and moments’. In: *Journal of Computational Chemistry* 19.4, pp. 377–395.

`bbx:introcite:plain:keeprelated` This toggle controls whether or not the citation label is also repeated for default related entries. The default value `false` suppresses the label for related entries.

`\togglefalse{bbx:introcite:plain:keeprelated}` (default)

Vizedom and Caffee 1960: Vizedom, Monika B. and Gabrielle L. Caffee, trans. (1960). *The Rites of Passage*. University of Chicago Press. Trans. of Arnold van Gennep. *Les rites de passage*. Paris: Nourry, 1909.

```
\toggletrue{bbx:introcite:plain:keeprelated}
```

Vizedom and Caffee 1960: Vizedom, Monika B. and Gabrielle L. Caffee, trans. (1960). *The Rites of Passage*. University of Chicago Press. Trans. of **van Gennepe 1909**: Arnold van Gennepe. *Les rites de passage*. Paris: Nourry, 1909.

Note that the implementation of some related types automatically suppresses the introcite label – or rather, does not add the label in the first place. That means that the resulting bibliography should be checked for consistency if the toggle is set to true.

The `label` option can be configured to not allow the label to run into the remaining bibliography entry thus creating the appearance of a tabular-like bibliography. The citation label is not broken across lines, instead it moves the entry text into the next line with `\introcitebreak` if the width of the citation is greater than `\introcitewidth`.

`\introcitewidth` The maximum width of the citation label. The initial value is 8 times `\biblabelsep`.

`\introcitesep` This length sets the minimal space between the end of the citation label and the beginning of the rest of the entry. The initial value is `\biblabelsep`.

`\introcitebreak` The command to execute if a citation label exceeds `\introcitewidth`. The default is `\leavevmode\newline`.

Lengths for `introcite=label`

Coleridge 1983

Coleridge, Samuel Taylor (1983). *The collected works of Samuel Taylor Coleridge*. Vol. 7.2: *Biographia literaria, or Biographical sketches of my literary life and opinions*. Ed. by Kathleen Coburn, James Engell and W. Jackson Bate. Bollingen Series 75. London: Routledge and Kegan Paul.

`\introcitesep` Geer 1985 | Geer, Ingrid de (1985). 'Earl, Saint, Bishop, Skald – and Music. The Orkney Earldom of the Twelfth Century. A Musicological Study'. PhD thesis. Uppsala: Uppsala Universitet.

`\introcitewidth` Sigfridsson and Ryde 1998

Sigfridsson, Emma and Ulf Ryde (1998). 'Comparison of methods for deriving atomic charges from the electrostatic potential and moments'. In: *Journal of Computational Chemistry* 19.4, pp. 377–395.

introcite=label with empty \introcitebreak

- Coleridge 1983 Coleridge, Samuel Taylor (1983). *The collected works of Samuel Taylor Coleridge*. Vol. 7.2: *Biographia literaria, or Biographical sketches of my literary life and opinions*. Ed. by Kathleen Coburn, James Engell and W. Jackson Bate. Bollingen Series 75. London: Routledge and Kegan Paul.
- Geer 1985 Geer, Ingrid de (1985). 'Earl, Saint, Bishop, Skald – and Music. The Orkney Earldom of the Twelfth Century. A Musicological Study'. PhD thesis. Uppsala: Uppsala Universitet.

introcite=label with \introcitewidth set to zero and \introcitesep equal to \bibhang

- Geer 1985
Geer, Ingrid de (1985). 'Earl, Saint, Bishop, Skald – and Music. The Orkney Earldom of the Twelfth Century. A Musicological Study'. PhD thesis. Uppsala: Uppsala Universitet.
- Sigfridsson and Ryde 1998
Sigfridsson, Emma and Ulf Ryde (1998). 'Comparison of methods for deriving atomic charges from the electrostatic potential and moments'. In: *Journal of Computational Chemistry* 19.4, pp. 377–395.

The appearance of the citation label can be customised mostly as if it were produced by a true citation command called `\bbx@introcite`. The delimiter context is `bbx@introcite`, the inner citation delimiters can be accessed as `bbx@introcite` as well. The label does not have outer citation delimiters, you can use the wrapper field format `bbx@introcite` instead. In fact this approach is more versatile than the outer citation delimiter feature (see the discussion in section 5.3). The default settings for `\bbx@introcite` emulate the output of `\cite`.

Example customisations for `introcite=plain`

```
\DeclareFieldFormat{bbx@introcite}{\mkbibbrackets{#1}}
\DeclareDelimFormat[bbx@introcite]{nameyeardelim}{\addcomma\space}
\UndeclareInnerCiteDelims{bbx@introcite}
\renewcommand*{\introcitepunct}{\quad}
```

[Sigfridsson and Ryde, 1998] Sigfridsson, Emma and Ulf Ryde (1998). 'Comparison of methods for deriving atomic charges from the electrostatic potential and moments'. In: *Journal of Computational Chemistry* 19.4, pp. 377–395.

Example customisations for introcite=label

```
\DeclareFieldFormat{bbx@introcite}{\mkbibbold{#1}}
\DeclareDelimFormat[bbx@introcite]{nameyear delim}{\addspace}
\DeclareInnerCiteDelims{bbx@introcite}{\bibopenparen}{\bibcloseparen}
\setlength{\introcitewidth}{0pt}
\setlength{\introcitesep}{\bibhang}
```

Coleridge (1983)

Coleridge, Samuel Taylor (1983). *The collected works of Samuel Taylor Coleridge*. Vol. 7.2: *Biographia literaria, or Biographical sketches of my literary life and opinions*. Ed. by Kathleen Coburn, James Engell and W. Jackson Bate. Bollingen Series 75. London: Routledge and Kegan Paul.

Geer (1985)

Geer, Ingrid de (1985). 'Earl, Saint, Bishop, Skald – and Music. The Orkney Earldom of the Twelfth Century. A Musicological Study'. PhD thesis. Uppsala: Uppsala Universitet.

If you are using an author-year citation style together with `introcite=label` or `introcite=label`, you may be interested in combining this with `bibstyle=ext-authortitle` instead to move the year back to the end of the entry.

introcite=label with style=ext-authoryear and bibstyle=ext-authortitle

Geer 1985

Geer, Ingrid de. 'Earl, Saint, Bishop, Skald – and Music. The Orkney Earldom of the Twelfth Century. A Musicological Study'. PhD thesis. Uppsala: Uppsala Universitet, 1985.

Sigfridsson and Ryde 1998

Sigfridsson, Emma and Ulf Ryde. 'Comparison of methods for deriving atomic charges from the electrostatic potential and moments'. In: *Journal of Computational Chemistry* 19.4 (1998), pp. 377–395.

5. Further Customisations

Aside from the new options mentioned in the last section the styles of this bundle also offer additional field formats, punctuation and delimiter commands, a new citation delimiter interface and a few new bibliography macros.

The citation delimiter interface is a novel feature of biblatex-ext, but for the other subsections familiarity with the underlying biblatex concepts is assumed. Some of this is easier understood by looking at the source code directly, so it might not be a bad idea to have `ext-standard.bbx` open when perusing this section of the manual.

5.1. Field formats

In a few places where the standard styles employ hard-coded formatting directives the styles of this bundle offer customisable formats instead. Field formats can be modified with `\DeclareFieldFormat`.

biblabeledate The format for the labeledate in the bibliography for authoryear-like styles. The default is to wrap the date in round brackets.

Sigfridsson, Emma and Ulf Ryde (1998). ‘Comparison of methods for deriving atomic charges from the electrostatic potential and moments’. In: *Journal of Computational Chemistry* 19.4, pp. 377–395.

biblistlabeledate Like biblabeledate, but for bibliography lists created by `\printbiblist`. The default is to use the same format as biblabeledate.

issuedate The format of the issue and date information for @articles. By default this block is wrapped in round brackets.

Sigfridsson, Emma and Ulf Ryde (1998). ‘Comparison of methods for deriving atomic charges from the electrostatic potential and moments’. In: *Journal of Computational Chemistry* 19.4 (1998), pp. 377–395.

volumeof The format for the volume of a maintitle used when `maintitleaftertitle=true`.

Knuth, Donald E. (1984). *The T_EX book*. Vol. A of *Computers & Typesetting*. Reading, Mass.: Addison-Wesley.

titlecase:title The standard styles follow an all-or-nothing approach when it comes to title casing. The field format `titlecase` intended to enable sentence case with `\MakeSentenceCase*` is applied

to all title-like fields alike. Finer control over the title casing of each field could require involved code.²¹ The field format `titlecase:title` is applied to the fields `title` and `subtitle`. By default this field format is an alias for `titlecase`.

`titlecase:booktitle` Like `titlecase:title`, but controls the title casing of the `booktitle` and `booksubtitle` fields.

`titlecase:maintitle` Like `titlecase:title`, but controls the title casing of the `maintitle` and `mainsubtitle` fields.

`titlecase:journaltitle` Like `titlecase:title`, but controls the title casing of the `journaltitle` and `journalsubtitle` fields.

`titlecase:issuetitle` Like `titlecase:title`, but controls the title casing of the `issuetitle` and `issuesubtitle` fields.

The `citetitle` field format can be used to change the title case in author-title citations, so there is no `citetitle:labeltitle`.

Default output for titlecase field formats

Shore, Bradd (Mar. 1991). ‘**Twice-Born, Once Conceived. Meaning Construction and Cultural Cognition**’. In: *American Anthropologist*. New ser. 93.1, pp. 9–27.

Example changes to titlecase field formats

```
\DeclareFieldFormat{titlecase:title}{\MakeSentenceCase*{#1}}
\DeclareFieldFormat{titlecase:journaltitle}{#1}
```

Shore, Bradd (Mar. 1991). ‘**Twice-born, once conceived. Meaning construction and cultural cognition**’. In: *American Anthropologist*. New ser. 93.1, pp. 9–27.

5.2. Punctuation

The package provides the following commands to modify the delimiters and punctuation between fields. Normal punctuation commands should be redefined with `\renewcommand`, while context-sensitive commands marked with `context sensitive` should be redefined with `\DeclareDelimFormat`. A short overview over common punctuation commands defined by `biblatex-ext` as well as standard `biblatex` in an example bibliography can be found in appendix A.

`\innameitledelim` Similar to `\nametitledelim`, but for names after the ‘in:’ if `innamebeforetitle` is `true`. The default value is that of `\nametitledelim` for all contexts. Since the definition of `\innamebeforetitle` is `context sensitive`.

²¹<https://tex.stackexchange.com/a/22981/>

`\nametitledelim` is different for the delimiter contexts `bib` and `biblist`, you may have to use the optional argument to redefine the delimiter.²²

Pines, Shlomo (1979). ‘The Limitations of Human Knowledge According to Al-Farabi, ibn Bajja, and Maimonides’. In: Isadore Twersky, ed., *Studies in Medieval Jewish History and Literature*. Cambridge, Mass.: Harvard University Press, pp. 82–109.

Since `\nametitledelim` and `\innametitledelim` are independent, the following output is easily achieved. Note that the optional argument to `\DeclareDelimFormat` is used to make sure the definitions apply to the bibliography and bibliography lists contexts, this is necessary because these contexts have special pre-defined values that would otherwise not be redefined.

Example customisations for `\innametitledelim`

```
\ExecuteBibliographyOptions{inamebeforetitle=true}  
\DeclareDelimFormat[bib,biblist]{nametitledelim}{\addcolon\space}  
\DeclareDelimFormat[bib,biblist]{innametitledelim}{\addcomma\space}
```

Gaonkar, Dilip Parameshwar, ed. (2001a): *Alternative Modernities*. Durham and London: Duke University Press. ISBN: 0-822-32714-7.
– (2001b): ‘On Alternative Modernities’. In: Dilip Parameshwar Gaonkar, ed., *Alternative Modernities*. Durham and London: Duke University Press, pp. 1–23. ISBN: 0-822-32714-7.

`\maintitledelim` The punctuation between the maintitle and title or booktitle of a work if `maintitleaftertitle` is false. The default is `\newunitpunct`.

Knuth, Donald E. (1984). *Computers & Typesetting*. Vol. A: *The T_EX book*. Reading, Mass.: Addison-Wesley.

`\voltitledelim` The punctuation between the volume and title or booktitle of a work if `maintitleaftertitle` is false. The default is a colon followed by a space.

Knuth, Donald E. (1984). *Computers & Typesetting*. Vol. A: *The T_EX book*. Reading, Mass.: Addison-Wesley.

²²The author admits that it is somewhat pointless to make `\innametitledelim` context sensitive. But the obvious parallels with `\nametitledelim` were too tempting. It is probably too late now.

`\titlemaintitledelim` The punctuation between the title or booktitle and maintitle of a work if maintitleaftertitle is true. The default is `\newunitpunct`.

Knuth, Donald E. (1984). *The T_EX book*. Vol. A of *Computers & Typesetting*. Reading, Mass.: Addison-Wesley.

`\jourvoldelim` The delimiter between the journaltitle and volume fields for `@article` if no series is present. The default is a space.

Sigfridsson, Emma and Ulf Ryde (1998). ‘Comparison of methods for deriving atomic charges from the electrostatic potential and moments’. In: *Journal of Computational Chemistry* 19.4 (1998), pp. 377–395.

`\jourserdelim` The delimiter between the journaltitle and series fields for `@article`. The default is `\newunitpunct`.

Reese, Trevor R. (1958). ‘Georgia in Anglo-Spanish Diplomacy, 1736–1739’. In: *William and Mary Quarterly*. 3rd ser. 15 (1958), pp. 168–190.
Shore, Bradd (1991). ‘Twice-Born, Once Conceived. Meaning Construction and Cultural Cognition’. In: *American Anthropologist*. New ser. 93.1 (Mar. 1991), pp. 9–27.

`\servoldelim` The delimiter between the series and volume fields for `@article`. The default is `\jourvoldelim`.

Reese, Trevor R. (1958). ‘Georgia in Anglo-Spanish Diplomacy, 1736–1739’. In: *William and Mary Quarterly*. 3rd ser. 15 (1958), pp. 168–190.
Shore, Bradd (1991). ‘Twice-Born, Once Conceived. Meaning Construction and Cultural Cognition’. In: *American Anthropologist*. New ser. 93.1 (Mar. 1991), pp. 9–27.

`\volnumdatedelim` The delimiter between the volume, number block and the date information for `@article`. The default is a space.

Sigfridsson, Emma and Ulf Ryde (1998). ‘Comparison of methods for deriving atomic charges from the electrostatic potential and moments’. In: *Journal of Computational Chemistry* 19.4 (1998), pp. 377–395.

`\volnumdelim` The delimiter between volume and number for `@article`. The default is a dot.

Sigfridsson, Emma and Ulf Ryde (1998). ‘Comparison of methods for deriving atomic charges from the electrostatic potential and moments’. In: *Journal of Computational Chemistry* 19.4, pp. 377–395.

`\sernumdelim` The delimiter between series and number for `@book`- and `@inbook`-like entries. The default is a space.

Coleridge, Samuel Taylor (1983). *The collected works of Samuel Taylor Coleridge*. Vol. 7.2: *Biographia literaria, or Biographical sketches of my literary life and opinions*. Ed. by Kathleen Coburn, James Engell and W. Jackson Bate. Bollingen Series 75. London: Routledge and Kegan Paul.

`\locdatedelim` The delimiter between location and date. The default is a comma followed by a space.

Jaffé, Philipp, ed. (1885–1888). *Regesta Pontificum Romanorum ab condita ecclesia ad annum post Christum natum MCXCVIII*. Red. by Samuel Loewenfeld, Ferdinand Kaltenbrunner and Paul Ewald. 2nd ed. 2 vols. Leipzig, 1885–1888.

`\locpubdelim` The delimiter between location and publisher/organization/institution. The default is a colon followed by a space.

Knuth, Donald E. (1984). *Computers & Typesetting*. Vol. A: *The T_EX book*. Reading, Mass.: Addison-Wesley, 1984.

`\publocdelim` The delimiter between publisher/organization/institution and location. The default is a comma followed by a space. This delimiter is not used by the default style, since the standard order of fields is location, publisher/organization/institution, date. You could use `\publocdelim` if you changed the order of these fields to publisher/organization/institution, location date with

```
\renewbibmacro*{pubinstorg+location+date}[1]{%
  \printlist{#1}%
  \setunit*{\publocdelim}%
  \printlist{location}%
  \setunit*{\locdatedelim}%
  \usebibmacro{date}%
  \newunit}
```

Knuth, Donald E. (1984). *Computers & Typesetting*. Vol. A: *The T_EX book*. Addison-Wesley, Reading, Mass., 1984.

`\pubdatedelim` The delimiter between publisher/organization/institution and date. The default is a comma followed by a space.

Knuth, Donald E. (1984). *Computers & Typesetting*. Vol. A: *The T_EX book*. Reading, Mass.: Addison-Wesley, 1984.

`\extradateonlycompdatedelim` Similar to `\compdatedelim`, but intended for use between compressed citations where the second is an extradate only. The default is a comma (*not* followed by a space). context sensitive

Knuth 1986a,b

`\extradateonlycompdaterangedelim` Similar to `\extradateonlycompdatedelim`, but intended for use in a compressed list of extradates in the `-ecomp` styles. The default is `\bibrangedash`. context sensitive

Knuth 1986a–c

5.3. Delimiters for citation commands

The delimiters for citation commands provided by the styles of this bundle offer a simple way to customise the bracketing of citation commands.

The citation commands `\cite`, `\parencite` and `\textcite` come with two sets of delimiters: A pair of *outer delimiters* wrapped around the resulting citation in its entirety and a pair of *inner delimiters* that sets off certain bits of the citation label from other information. An example for outer delimiters would be the round brackets of `\parencite` for author-year-like styles or the square brackets of `\cite` for numeric- or alphabetic-like styles. Inner delimiters would be the round brackets in `\textcite` around the year for author-year or around the title for author-title. See table 1 for more details.

The delimiters are set up to work as paired delimiters, but you are free to use non-matching pairs or to leave the opening or closing delimiter empty. If you want to add punctuation, the context-sensitive delimiters `nameyear delim`, `nametitle delim` and friends as well as the context-insensitive `postnote delim` and friends are more appropriate. Although the outer delimiters can be set up using `\DeclareCiteCommand`'s optional `<wrapper>` argument for most styles, this is not possible for all styles. Inner delimiters can be set up

with `\DeclareFieldFormat` in some styles, but other styles need more intricate implementations. This means that the commands discussed here can be used to place the citations between delimiters, but not natively to pass the result of a citation to a wrapper command as an argument.

Table 1: **Outer** and **inner** citation delimiters by style. If the style does not use the delimiters by default, `<` and `>` are substituted in the appropriate place.

Style family	Citation command		
	<code>\cite</code>	<code>\parencite</code>	<code>\textcite</code>
alphabetic	[Knu84]	[Knu84]	<Knuth [2]>
numeric	[2]	[2]	<Knuth [2]>
authortitle	<Knuth, <T _E Xbook>>	(Knuth, <T _E Xbook>)	<Knuth (T _E Xbook)>
authoryear	<Knuth <1984>>	(Knuth <1984>)	<Knuth (1984)>

`\DeclareOuterCiteDelim{<cite command>}{<opening delimiter>}{<closing delimiter>}`

Sets up the outer delimiters for the citation command `\<cite command>`. The name of the `<cite command>` is given without leading backslash in the argument, it normally corresponds to the delimiter context.

Note that outer citation delimiters are often hard-coded so they usually do not respond to delimiter context aliases. Inner citation delimiters, on the other hand, usually follow delimiter context aliases. This may lead to initially surprising results if aliases are used.

You may use almost any input for `<opening delimiter>` and `<closing delimiter>` as long as type-setting of `'<opening delimiter>text<closing delimiter>'` does not lead to errors when arbitrary grouping such as `'{<opening delimiter>text}<closing delimiter>'` or `'<opening delimiter>text{<closing delimiter>}'` is introduced. It can not be guaranteed that the opening and closing delimiters are executed at the same level of grouping, let alone in the same group. As mentioned above, this approach is not suitable to wrap the citation up in a wrapper command, i.e. to pass the entire output of the citation command as argument to a macro.

Instead of hard-coded `(,) , [and]` their biblatex counterparts `\bibopenparen`, `\bibcloseparen`, `\bibopenbracket` and `\bibclosebracket` are preferable, since these commands respond to nesting and check if opening brackets are always closed.

`\DeclareOuterCiteDelimAlias{<cite alias>}{<cite command>}`

`\DeclareOuterCiteDelimAlias*{<cite alias>}{<cite command>}`

Use the outer delimiters of `\<cite command>` for `\<cite alias>` as well. The unstarred version uses `\def` assignment while the starred version uses `\let`. This means that the starred version copies the values of the definitions at the time of executing the aliasing command,

whereas the alias created by the unstarred version will only evaluate the delimiters whenever the citation command is called.

`\UndeclareOuterCiteDelims{⟨cite command⟩}`

Completely remove the definitions of the outer delimiters for `\⟨cite command⟩`.

`\DeclareInnerCiteDelim{⟨cite command⟩}{⟨opening delimiter⟩}{⟨closing delimiter⟩}`

Sets up the inner delimiters for the citation command `\⟨cite command⟩`.

This command is similar to `\DeclareOuterCiteDelim` and the same restrictions for the arguments apply.

Note that inner citation delimiters usually follow context delimiter aliases. Outer citation delimiters, on the other hand, do not respond to context delimiter aliases. This may lead to initially surprising results if aliases are used.

`\DeclareInnerCiteDelimAlias{⟨cite alias⟩}{⟨cite command⟩}`

`\DeclareInnerCiteDelimAlias*{⟨cite alias⟩}{⟨cite command⟩}`

Use the inner delimiters of `\⟨cite command⟩` for `\⟨cite alias⟩` as well. The unstarred version uses `\def` assignment while the starred version uses `\let`. This means that the starred version copies the values of the definitions at the time of executing the aliasing command, whereas the alias created by the unstarred version will only evaluate the delimiters whenever the citation command is called.

`\UndeclareInnerCiteDelims{⟨cite command⟩}`

Completely remove the definitions of the inner delimiters for `\⟨cite command⟩`.

`\RegisterCiteDelims{⟨modifier⟩}{⟨cite command⟩}`

Register a pair of `⟨modifier⟩` citation delimiters for `\⟨cite command⟩`. This command will define a delimiter wrapper command `\mk⟨modifier⟩⟨cite command⟩s` that places its argument between the opening delimiter `\extblx@citedelim@⟨cite command⟩@⟨modifier⟩@open` and the closing delimiter `\extblx@citedelim@⟨cite command⟩@⟨modifier⟩@close`. No error will be raised if the opening or closing delimiters are not defined, but an error will be raised if `\mk⟨modifier⟩⟨cite command⟩s` is already defined.

The styles of this bundle only use the values `outer` and `inner` for `⟨modifier⟩`, but other values are possible. With `outer` and `inner` you can use `\DeclareOuterCiteDelim` or `\DeclareInnerCiteDelim` and friends to define the opening and closing delimiters, otherwise you need to define them manually.

All styles of `biblatex-ext` define the following wrapper commands

The `authoryear` and `authortitle` styles have `\parencite`, e.g. (Knuth 1984), (Sigfridsson and Ryde 1998), set up with

Table 2: Delimiter wrappers defined by biblatex-ext

Citation command	Modifier	
	Outer	Inner
<code>\cite</code>	<code>\mkoutercitedelims</code>	<code>\mkinnercitedelims</code>
<code>\parencite</code>	<code>\mkouterparencitedelims</code>	<code>\mkinnerparencitedelims</code>
<code>\textcite</code>	<code>\mkoutertextcitedelims</code>	<code>\mkinnertextcitedelims</code>
<code>\footcite</code>	<code>\mkouterfootcitedelims</code>	<code>\mkinnerfootcitedelims</code>
<code>\bbx@xrefcite</code>	<code>\mkouterbbx@xrefcitedelims</code>	<code>\mkinnerbbx@xrefcitedelims</code>
<code>'\bbx@introcite'</code>	— ^a	<code>\mkinnerbbx@introcitedelims</code>

^aUse the field format `bbx@introcite` instead, see § 4.2.

```
\DeclareOuterCiteDelims{parencite}{\bibopenparen}{\bibcloseparen}
\DeclareInnerCiteDelims{parencite}{}{}
```

and `\textcite`, e.g. Knuth (1984), Sigfridsson and Ryde (1998), with

```
\DeclareOuterCiteDelims{textcite}{}{ }
\DeclareInnerCiteDelims{textcite}{\bibopenparen}{\bibcloseparen}
```

If you wanted `\parencite` of authoryear to look like ‘[Sigfridsson and Worman (1998)]’ you would use

```
\DeclareOuterCiteDelims{parencite}{\bibopenbracket}{\bibclosebracket}
\DeclareInnerCiteDelims{parencite}{\bibopenparen}{\bibcloseparen}
```

```
[Sigfridsson and Ryde (1998)] [Geer (1985); Worman (2002)] [Knuth (1984,
1986a,b)]
```

5.4. Selected bibliography macros

The following macros are defined in `ext-standard.bbx` and may make certain things easier to customise. Many of these macros are replacements for bare `\printfield` or `\printlist` in the bibliography drivers, or pack a frequently-used sequence of commands into one central place.

barevolume+volumes A bibliography macro to print the volume, part and volumes fields for @mvbook-, @book- and @inbook-like entry types. If maintitle is defined, the volume and part fields will be printed by maintitle+title or maintitle+booktitle instead.

Knuth, Donald E. (1984–1986). *Computers & Typesetting*. **5 vols.** Reading, Mass.: Addison-Wesley.
Matuz, Roger, ed. (1990). *Contemporary Literary Criticism*. **Vol. 61.** Detroit: Gale, pp. 204–208.

edition A bibliography macro to print the edition field, this avoids a direct \printfield{edition} in the bibliography drivers.

version Similar to the edition bibliography macro, version prints the version field, this avoids a direct \printfield{version} in the bibliography drivers.

pagetotal Similar to the edition bibliography macro, pagetotal prints the pagetotal field, this avoids a direct \printfield{pagetotal} in the bibliography drivers.

in:editor(+others) The bibliography macro to print the editor before the booktitle for @inbook, @incollection and @inproceedings when innamebeforetitle is set to true. The \printname uses the name format ineditor.

language A bibliography macro to print the language field, this avoids a direct \printlist{language} in the bibliography drivers.

note A bibliography macro to print the note field, this avoids a direct \printfield{note} in the bibliography drivers.

pubinstorg+location+date A general-purpose bibliography macro to catch publisher+location+date, institution+location+date and organization+location+date. This bibliography macro has one mandatory argument: the name of a list field, sensible values are publisher, institution and organization.

```
\newbibmacro*{pubinstorg+location+date}[1]{%
  \printlist{location}%
  \iflistundef{#1}
    {\setunit*{\locdatedelim}}
    {\setunit*{\locpubdelim}}}%
  \printlist{#1}%
  \setunit*{\pubdatedelim}%
  \usebibmacro{date}%
  \newunit}

\renewbibmacro*{publisher+location+date}{%
  \usebibmacro{pubinstorg+location+date}{publisher}}
```

```
\renewbibmacro*{institution+location+date}{%  
  \usebibmacro{pubinstorg+location+date}{institution}}  
  
\renewbibmacro*{organization+location+date}{%  
  \usebibmacro{pubinstorg+location+date}{organization}}
```

`type+number` A bibliography macro to print the type and number fields.

6. Tabular Bibliographies

An experimental addition to this bundle is the package `biblatex-ext-tabular` which allows you to typeset tabular (two-column) bibliographies. The package must be loaded after `biblatex` and has no further options.

```
\usepackage[<options>]{biblatex}  
...  
\usepackage{biblatex-ext-tabular}
```

If it turns out that the tabular bibliography package is useful on its own, it may be split off from the rest of this bundle in the future. In that case the name `biblatex-ext-tabular` may be deprecated in favour of something more snappy. The old name should then continue to work, but you may have to install a new package to be able to use it.

The package `biblatex-ext-tabular` can be used independently of the styles provided in this bundle. But no matter what style you use, you will probably have to apply some tweaks here and there to make the output look acceptable.

The code for the tabular bibliographies is based on Audrey's²³ answer to a question²⁴ on `TEX – LATEX Stack Exchange`. The code has been modernised to keep in sync with changes to internal macros and modified to allow for slightly more flexible setups, so any bugs you find are mine and not Audrey's. Please report them via the channels mentioned above in § 1.6.

Before tabular bibliographies can be used, a suitable definition must be supplied with `\defbibtabular`.



`\printbibtabular[<key=value, ...>]`

This command prints a tabular bibliography. It accepts the same options as `\printbibliography`, but note that `env` must be a tabular bibliography declared with `\defbibtabular`. The default value for `env` is `bibtabular`.

Note that there is no default definition for the `bibtabular` environment, so you must define it with `\defbibtabular` before use. An error will be issued if you fail to provide a definition for `bibtabular` before you use `\printbibtabular` with the default `env` value, no bibliography will be printed.



`\defbibtabular{<name>}{<begin code>}{<end code>}{<row code>}`

This command defines a tabular bibliography. The *<name>* is an identifier passed to the `env` option of `\printbibtabular` when selecting the environment. The *<begin code>* is `LATEX` code to be executed at the beginning of the environment, usually it will begin a tabular environment. The *<end code>* is executed at the end of the environment and would usually

²³<https://tex.stackexchange.com/users/4483/audrey>

²⁴<https://tex.stackexchange.com/q/71088/35864>

end the tabular environment. The $\langle row\ code\rangle$ holds the code for one row in the tabular bibliography, it should have no more columns than ordered in $\langle begin\ code\rangle$ and should end with $\backslash\backslash$.

Please keep in mind that the tabular bibliography is subject to all limitations of the particular tabular environment you decide to use.

Within the $\langle row\ code\rangle$ argument the following macros are defined and can be used to typeset the result of bibliography macros. Every cell should normally be wrapped into exactly one of the following macro since they are responsible for providing the necessary entry data to the bibliography macros.

$\backslash plain\{\langle code\rangle\}$

Typesets $\langle code\rangle$ with the entry data of the current entry.

$\backslash plainlang\{\langle code\rangle\}$

Like $\backslash plain$, but typesets $\langle code\rangle$ in the language of the current item if the language switching options are enabled.

$\backslash anchor\{\langle code\rangle\}$

Like $\backslash plain$, and but additionally sets a link anchor for the current entry. There should only be one $\backslash anchor$ or $\backslash anchorlang$ per row, and for proper linking there should be at least one. Usually $\backslash anchor$ or $\backslash anchorlang$ is the first cell in the row.

$\backslash anchorlang\{\langle code\rangle\}$

Like $\backslash anchor$, but in the entry language like $\backslash plainlang$.

$\backslash driver\{\langle precode\rangle\}$

Typesets the bibliography entry using the correct driver. This always uses the entry language if language switching is enabled. The $\langle precode\rangle$ argument can be used to execute code before the driver is executed. Usually this would be the last cell in a row, duplicate information can be cleaned up with help of the $\langle precode\rangle$ argument.

Recall that standard `tabular` can't break across pages, so you may want to give `longtable` a try. Additionally, the standard column specifiers `l`, `r` and `c` define flexible-sized columns which might not be appropriate here; `p` defines fixed-width columns but imposes justification, which does not look good if the columns are too narrow. You may want to look into fixed-width flush-left or flush-right columns²⁵.

The package also defines two helpful bibliography macros.

²⁵<https://tex.stackexchange.com/q/12703/35864>

`tabular:sortname` Prints the labelname/sortname.

`tabular:omitsortname` Suppresses the labelname/sortname in the current group.

A simple example of a useful tabular bibliography setup is

```
\usepackage{longtable}
\usepackage{array}
\newcolumnntype{L}[1]{%
  >\raggedright\let\newline\\\arraybackslash\hspace{0pt}}p{#1}}

\defbibtabular{bibtabular}
{
  \setlength{\LTpre}{0pt}%
  \setlength{\LTpost}{0pt}%
  \renewcommand*{\arraystretch}{2}%
  \begin{longtable}{%
    @{}
    L{\dimexpr0.3\textwidth-\tabcolsep\relax}
    L{\dimexpr0.7\textwidth-\tabcolsep\relax}
    @{}}
  \end{longtable}
  \anchorlang{\usebibmacro{tabular:sortname}} &
  \driver{\usebibmacro{tabular:omitsortname}} \\\}
```

This defines a two-column bibliography where the first column shows the primary name associated with the work (the labelname/sortname) and the second column shows the bibliography data with the primary name suppressed to avoid duplication. The anchor is set to the first column, so that a viewer jumps there if a link to the entry is followed.

Geer, Ingrid de	'Earl, Saint, Bishop, Skald – and Music' (1985). 'The Orkney Earldom of the Twelfth Century. A Musicological Study'. PhD thesis. Uppsala: Uppsala Universitet.
Nussbaum, Martha	<i>Aristotle's 'De Motu Animalium'</i> (1978). Princeton: Princeton University Press.
Sigfridsson, Emma and Ulf Ryde	'Comparison of methods for deriving atomic charges from the electrostatic potential and moments' (1998). In: <i>Journal of Computational Chemistry</i> 19.4, pp. 377–395. DOI: <a href="https://doi.org/10.1002/(SICI)1096-987X(199803)19:4<377::AID-JCC1>3.0.CO;2-P">10.1002/(SICI)1096-987X(199803)19:4<377::AID-JCC1>3.0.CO;2-P .

For the common case of two-column tabular bibliographies there is a thin wrapper around `\defbibtabular` that might turn out a bit easier to use.

`\defbibtabulartwocolumn{⟨name⟩}{⟨begin code⟩}{⟨end code⟩}{⟨anchor code⟩}{⟨driver precode⟩}`

This defines a two-column tabular bibliography environment with *⟨name⟩*, *⟨begin code⟩* and *⟨end code⟩* as for `\defbibtabular`.

The first column is an `\anchorlang` column that executes *⟨anchor code⟩*, the second column executes a pre-code and the bibliography driver.

```
\defbibtabulartwocolumn{⟨name⟩}
  {⟨begin code⟩}{⟨end code⟩}
  {⟨anchor code⟩}{⟨driver precode⟩}
```

is equivalent to

```
\defbibtabular{⟨name⟩}
  {⟨begin code⟩}{⟨end code⟩}
  {⟨anchorlang⟩{⟨anchor code⟩} & \driver{⟨driver precode⟩} \\\}
```

Using `\defbibtabulartwocolumn` the example from above could be written as

```
\usepackage{longtable}
\usepackage{array}
\newcolumnntype{L}[1]{%
  >{\raggedright\let\newline\\\arraybackslash\hspace{0pt}}p{#1}}

\defbibtabulartwocolumn{bibtabular}
  {\setlength{\LTpre}{0pt}%
   \setlength{\LTpost}{0pt}%
   \renewcommand*{\arraystretch}{2}%
   \begin{longtable}{%
     @{}
     L{\dimexpr0.3\textwidth-\tabcolsep\relax}
     L{\dimexpr0.7\textwidth-\tabcolsep\relax}
     @{}}
  {\end{longtable}}
  {\usebibmacro{tabular:sortname}}
  {\usebibmacro{tabular:omit sortname}}}
```

7. Revision History

The GitHub repository of this project uses release tags, so you can compare the changes in source code there.²⁶ See also CHANGES.md.

The numbers on the right indicate the relevant section of the manual.

0.5 2018-10-02

New ext-authoryear-*ecomp style subfamily	3.2
Added outer cite delimiters for \footcite	5.3
Added experimental tabular bibliography	6

0.4 2018-06-10

Renamed \DeclareOuterCiteDelim and friends to \DeclareOuterCiteDelims . .	5.3
Added \RegisterCiteDelims	5.3
Renamed ‘virtual’ cite command \bbx:introcite to \bbx@introcite	4.2

0.3 2018-06-04

Added titlecase:...title field formats	5.1
Added bbx:introcite:plain:keeprelated toggle	4.2
Added \jourvoldelim, \jourserdelim and \servoldelim	5.2
Improve documentation	

0.2 2018-03-28

Rework lengths for introcite=label	4.2
Fixed meaning of \maintitletitledelim	5.2
Added \voltitledelim	5.2

0.1a 2018-03-20

Fixed inner citation delimiters for ext-authoryear, ext-authortitle and their -ibid versions	5.3
Fixed \smarcite delimiters	5.3

0.1 2018-03-18

First public release

²⁶<https://github.com/moewew/biblatex-ext/compare/>

Example References

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A. Punctuation Commands in Use

The following example bibliography shows some common punctuation commands in use. Commands provided by standard *biblatex* are marked in *\it***italics**, new commands defined by *biblatex-ext* are in **\bold** and linked to their documentation.

Punctuation and delimiters (defined by *standard biblatex* and **biblatex-ext**)

\nameyear*delim* **\nametitle***delim*
 Geer, Ingrid de (1985). 'Earl, Saint, Bishop, Skald – and Music. The Orkney Earldom of the Twelfth Century. A Musicological Study'. PhD thesis. Uppsala: Uppsala Universitet.

\multinam*delim* **\finalnam***delim*
 Goossens, Michel, Frank Mittelbach and Alexander Samarin (1994). *The LaTeX Companion*. 1st ed. Reading, Mass.: Addison-Wesley, 1994. 528 pp.
\locpub*delim* **\pubdate***delim*

Knuth, Donald E. (1984). *Computers & Typesetting*. Vol. A: *The TeX book*. Reading, Mass.: Addison-Wesley, 1984.
\maintitle*delim* **\voltitle***delim*

Moore, Gordon E. (1965). 'Cramming more components onto integrated circuits'. In: *Electronics* 38.8, pp. 114–117.
\bibpages*punct* **\bibrangedash** **\intitle***punct*

Sigfridsson, Emma and Ulf Ryde (1998). 'Comparison of methods for deriving atomic charges from the electrostatic potential and moments'. In: *Journal of Computational Chemistry* 19.4 (1998), pp. 377–395.
\jourvold*delim* **\volnum***delim*

Vizedom, Monika B. and Gabrielle L. Cafee, trans. (1960). *The Rites of Passage*. University of Chicago Press. Trans. of Arnold van Gennep. *Les rites de passage*. Paris: Nourry, 1909.
\translatortype*delim* **\begrelated***delim*

Westfahl, Gary, ed. (2000a). *Space and Beyond. The Frontier Theme in Science Fiction*. Westport, Conn. and London: Greenwood, 2000.
\editortype*delim* **\newunit***punct*

\bibnamedash **\subtitle***punct*
 – (2000b). 'The True Frontier: Confronting and Avoiding the Realities of Space in American Science Fiction Films'. In: *Space and Beyond. The Frontier Theme in Science Fiction*. Ed. by Gary Westfahl. Westport, Conn. and London: Greenwood, 2000, pp. 55–65.