

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

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`

¹Please be gentle and allow for a lot of wiggle room for what exactly ‘simple’ means. And don’t get mad if the principle is not followed at all times and the occasional solution for things that already are ‘simple enough’ pop up here and there.

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, errors or 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 features only work properly with Biber.

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

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

1.3 License

Permission is granted to copy, distribute and/or modify this software under the terms of the LaTeX Project Public License, version 1.3c⁴ or (at your option) any later version⁵. This bundle is maintained by Moritz Wemheuer (©2017–2018).

1.4 Feedback

You can use the biblatex-ext project page on GitHub⁶ 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.⁷

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`.

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 documentation⁸ and the style examples⁹ 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, 3, 5, 6, 7]
```

⁴<https://www.latex-project.org/lppl/lppl-1-3c.txt>

⁵<https://www.latex-project.org/lppl.txt>

⁶<https://github.com/moewew/biblatex-ext>

⁷<https://tex.stackexchange.com/questions/tagged/biblatex>

⁸<http://mirrors.ctan.org/macros/latex/contrib/biblatex/doc/biblatex.pdf>

⁹<http://mirrors.ctan.org/macros/latex/contrib/biblatex/doc/examples/>

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, 5–7]’ instead of ‘[1, 2, 3, 5, 6, 7]’.

[1–3, 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], [2], [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]

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-icomp An extended version of the standard authoryear-icomp 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-author-year-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 of the concepts available in the standard styles.

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-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

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`

Emma Sigfridsson 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.

Ahasver von Brandt and Erich Hoffmann (1987). ‘Die nordischen Länder von der Mitte des 11. Jahrhunderts bis 1448’. *In: Europa im Hoch- und Spätmittelalter*. Ed. by Ferdinand Seibt. Handbuch der europäischen Geschichte 2. Stuttgart: Klett-Cotta, pp. 884–917.

`articlein=false`

Emma Sigfridsson 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.

Ahasver von Brandt and Erich Hoffmann (1987). ‘Die nordischen Länder von der Mitte des 11. Jahrhunderts bis 1448’. *In: Europa im Hoch- und Spätmittelalter*. Ed. by Ferdinand Seibt. Handbuch der europäischen Geschichte 2. Stuttgart: Klett-Cotta, pp. 884–917.

`citeinxref=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 `citeinxref=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.

`citeinxref=true`

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

`citeinxref=false`

Gary Westfahl (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`, `@incollection` and `@inproceedings` entries.

`innamebeforetitle=true`

Shlomo Pines (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`

Shlomo Pines (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`, `@incollection`

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`

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

`innameidem=false`

Dilip Parameshwar Gaonkar (2001). ‘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`

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

`maintitleaftertitle=false`

Donald E. Knuth (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: false

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.

`\introcitepunct` The plain option inserts the punctuation given in `\introcitepunct` between the label and the rest of the entry. 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.

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 label plus the buffer length `\introcitesep` is greater than `\introcitewidth`.

`\introcitewidth` This length controls the margin of the bibliography. 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. If the citation label does not leave at least `\introcitesep` to the beginning of the entry, the entry is broken to the next line by inserting `\introcitebreak`. The initial value is half of `\biblabelsep`.

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.

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.

`\introcitewidth`

introcite=label with \introcitesep = –\introcitewidth

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 \introcitesep = \introcitewidth = \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).

5 Further Customisations

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`.

`bib(list)labeldate` The format for the `labeldate` in the bibliography or a bibliography list for `authoryear`-like styles. The default is to wrap the date in round brackets.

Emma Sigfridsson 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.

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

Emma Sigfridsson 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`.

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

5.2 Punctuation

The package provides the following commands to modify the delimiters and punctuation between fields. The punctuation commands should be redefined with `\renewcommand`.

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

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

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

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

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

Emma Sigfridsson 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.

Emma Sigfridsson 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. The default is a space.

Samuel Taylor Coleridge (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.

Philipp Jaffé, 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.

Donald E. Knuth (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}
```

Donald E. Knuth (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.

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

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

Knuth 1986a,b

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 authoryear-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 authoryear or around the title for authortitle. 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 `nameyeardelim`, `nametitledelim` and friends as well as the context-insensitive `\postnotedelim` 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.

You may use almost any input for `<opening delimiter>` and `<closing delimiter>` as long as typesetting 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.

```
\UndeclareOuterCiteDelim{<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.

```
\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.

```
\UndeclareInnerCiteDelim{<cite command>}
```

Completely remove the definitions of the inner delimiters for `\<cite command>`.

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

```
\DeclareOuterCiteDelim{parencite}{\bibopenparen}{\bibcloseparen}
\DeclareInnerCiteDelim{parencite}{}{}
```

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

```
\DeclareOuterCiteDelim{textcite}{}{}
\DeclareInnerCiteDelim{textcite}{\bibopenparen}{\bibcloseparen}
```

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

```
\DeclareOuterCiteDelim{parencite}{\bibopenbracket}{\bibclosebracket}
\DeclareInnerCiteDelim{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.

Donald E. Knuth (1984–1986). *Computers & Typesetting*. 5 vols. Reading, Mass.: Addison-Wesley.
Roger Matuz, 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.

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 Revision History

The GitHub repository of this project uses release tags, so you can compare the changes in source code there.¹⁰ See also `CHANGES.md`.

0.1 2018-03-18

First public release.

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¹⁰<https://github.com/moewew/biblatex-ext/compare/>

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