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# **pybtex-docutils Documentation**

***Release 1.0.3***

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## 1.1 Getting Started

### 1.1.1 Overview

## 1.2 pybtex-docutils

A docutils backend for pybtex.

### 1.2.1 Overview

The pybtex docutils backend allows BibTeX citations to be inserted into documentation generated by docutils.

- Download: <https://pypi.org/project/pybtex-docutils/#files>
- Documentation: <https://pybtex-docutils.readthedocs.io/en/latest/>
- Development: <http://github.com/mcmtroffaes/pybtex-docutils/>

### 1.2.2 Installation

For use with Sphinx, simply install `sphinxcontrib-bibtex`.

For use with pure docutils, install the module with `pip install pybtex_docutils`, or from source using `pip install -e ..`

### 1.2.3 Minimal Example

For use with Sphinx, refer to the [sphinxcontrib-bibtex](#) documentation.

For use with pure docutils, the module exposes a new `simplebibliography` directive, which will generate a citation for every entry in the specified bib files. This new directive is only intended for simple single document workflows that do not require the full power of Sphinx. You need exactly one of these directives in your document, placed at the location where you want the citations to appear (typically, at the end).

For example:

```
See [Nelson1987]_ for an introduction to non-standard analysis.

.. simplebibliography:: refs.bib
```

where `refs.bib` might contain:

Note that citation keys are used as labels. For this to work, it is thus necessary that all keys in your bib file are valid citation labels for docutils. In particular, they cannot contain colons. This limitation is lifted in `sphinxcontrib-bibtex`, which also provides many more citation features.

To use the directive, you have to write your own command script (there seems to be no other way currently to extend docutils). For instance:

```
#!/usr/bin/env python3
from docutils.parsers.rst import directives, Directive
from docutils.core import publish_cmdline, default_description

from pybtex_docutils import SimpleBibliography

description = ('Like rst2html5.py, but with .. simplebibliography support'
              + default_description)

if __name__ == '__main__':
    directives.register_directive("simplebibliography", SimpleBibliography)
    publish_cmdline(writer_name='html5', description=description)
```

You can then run this command as if you would run `rst2html5`.

### 1.2.4 Installation

Install the module with `pip install pybtex-docutils`, or from source using `python setup.py install`.

### 1.2.5 Minimal Example

```
import io
import pybtex.database.input.bibtex
import pybtex.plugin

style = pybtex.plugin.find_plugin('pybtex.style.formatting', 'plain')()
backend = pybtex.plugin.find_plugin('pybtex.backends', 'docutils')()
parser = pybtex.database.input.bibtex.Parser()
data = parser.parse_stream(io.StringIO(u"""
@Book{1985:lindley,
```

(continues on next page)



(continued from previous page)

```

author = {D. Lindley},
title = {Making Decisions},
publisher = {Wiley},
year = {1985},
edition = {2nd},
}
"""))
for entry in style.format_entries(data.entries.values()):
    print(backend.paragraph(entry))

```

would produce:

```

<paragraph>
  D. Lindley. <emphasis>Making Decisions</emphasis>.
  Wiley, 2nd edition, 1985.
</paragraph>

```

## 1.3 API

The backend renders `pybtex.richtext.Text` instances into a list of `docutils.nodes.Node` instances. For typical use cases, all you need to care about are the methods `Backend.paragraph()`, `Backend.citation()`, and `Backend.citation_reference()` which are to be called on *formatted* entries, as in the *minimal example*.

Unless you are subclassing `Backend` to create a new backend, you should normally not import the `pybtex_docutils` module directly. Instead, use pybtex's plugin system to get the `Backend` class, as in the *minimal example*.

```
class pybtex_docutils.Backend(encoding=None)
```

Bases: `pybtex.backends.BaseBackend`

### RenderType

alias of `builtins.list`

**citation** (*entry*: `FormattedEntry`, *document*: `docutils.nodes.document`, *use\_key\_as\_label*=`True`) → `docutils.nodes.citation`

Return citation node, with key as name, label as first child, and paragraph with entry text as second child. The citation is expected to be inserted into *document* prior to any docutils transforms.

**citation\_reference** (*entry*: `FormattedEntry`, *document*: `docutils.nodes.document`, *use\_key\_as\_label*=`True`) → `docutils.nodes.citation_reference`

Return `citation_reference` node to the given citation. The `citation_reference` is expected to be inserted into *document* prior to any docutils transforms.

**footnote** (*entry*: `FormattedEntry`, *document*: `docutils.nodes.document`) → `docutils.nodes.footnote`

Return footnote node, with key as name, and paragraph with entry text as child. The footnote is expected to be inserted into *document* prior to any docutils transforms.

New in version 0.2.2.

**footnote\_reference** (*entry*: `FormattedEntry`, *document*: `docutils.nodes.document`) → `docutils.nodes.footnote_reference`

Return `footnote_reference` node to the given citation. The `footnote_reference` is expected to be inserted into *document* prior to any docutils transforms.

New in version 0.2.2.

**paragraph** (*entry*: `FormattedEntry`) → `docutils.nodes.paragraph`

Return a `docutils.nodes.paragraph` containing the rendered text for *entry* (without label).

New in version 0.2.0.

**class** pybtex\_docutils.**SimpleBibliography** (*name, arguments, options, content, lineno, content\_offset, block\_text, state, state\_machine*)

Bases: docutils.parsers.rst.Directive

## 1.4 Changes

### 1.4.1 1.0.3 (22 August 2023)

- Bump required docutils version to 0.14.
- Add tests for docutils 0.14 and 0.18 in github workflow.
- Fix tests for docutils 0.17 and lower (fixes issue #22, reported by kloczek).
- Drop Python 3.6 support.

### 1.4.2 1.0.2 (25 May 2022)

- New `simplebibliography` directive, which will generate a citation for every entry in the specified bib files, intended for simple single document workflows that do not require the full power of Sphinx.
- Fix deprecation warning with docutils 0.18 (see issue #21, reported by drammock).

### 1.4.3 1.0.1 (29 July 2021)

- Add `py.typed` so mypy finds the type annotations.
- Switch to github actions for regression testing.

### 1.4.4 1.0.0 (15 January 2021)

- Drop Python 2.7, 3.4, and 3.5 support.
- Add type annotations.
- Add support for sub and sup tags.

### 1.4.5 0.2.2 (9 October 2019)

- Drop Python 3.3 support.
- New `footnote` and `footnote_reference` methods for docutils footnote support.

### 1.4.6 0.2.1 (8 December 2014)

- Add Python 3.4 support, drop Python 3.2 support.
- Support more tags, also fail gracefully on unknown tags (see issue #6, reported by Jellyby).
- Use universal wheel for distribution.

### 1.4.7 0.2.0 (8 August 2013)

- **BACKWARD INCOMPATIBLE** The backend now renders into a list of docutils nodes instead of a single docutils node.
- New `paragraph()` method to render an entry into a single docutils paragraph.
- The `<inline>` wrapper nodes are no more, leading to much simpler generated code.
- Full test coverage.
- Generated citation nodes now contain text inside a paragraph.
- Minimal example.

### 1.4.8 0.1.0 (7 August 2013)

- Copied the backend from pybtex.
- Initial documentation.
- Initial tests and travis.ci integration.

## 1.5 License

pybtex-docutils is a docutils backend for pybtex  
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## CHAPTER 2

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### Indices and tables

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