# sphinxcontrib-bibtex Documentation

Release 0.2.2

Matthias C. M. Troffaes

# **CONTENTS**

_	Contents					
	1.1	etting Started	3			
	1.2	sage	4			
	1.3	ktension API	4			
	1.4	cense	7			
2	Indic	and tables	9			
Рy	Python Module Index					

Release 0.2.2

**Date** July 06, 2012

CONTENTS 1

2 CONTENTS

**CHAPTER** 

**ONE** 

## **CONTENTS**

## 1.1 Getting Started

## 1.1.1 Overview

sphinxcontrib-bibtex is a Sphinx extension for BibTeX style citations.

It allows BibTeX citations to be inserted into documentation generated by Sphinx, via a bibliography directive, and a cite role, which work similarly to LaTeX's \bibliography and \cite commands.

Inspired by bibstuff.sphinxext.bibref by Matthew Brett.

- Download: http://pypi.python.org/pypi/sphinxcontrib-bibtex/#downloads
- Documentation: http://sphinxcontrib-bibtex.readthedocs.org/
- Development: http://github.com/mcmtroffaes/sphinxcontrib-bibtex/

## 1.1.2 Installation

Install the module with pip install sphinxcontrib-bibtex, or from source using python setup.py install. Then add:

```
extensions = ['sphinxcontrib.bibtex']
```

to your project's Sphinx configuration file conf.py.

## 1.1.3 Minimal Example

 $year = \{1977\},$ 

In your project's documentation, you can then write for instance:

publisher = {Princeton University Press},

```
See :cite:'1987:nelson' for an introduction to non-standard analysis.
.. bibliography:: refs.bib
where refs.bib would contain an entry:
@Book{1987:nelson,
   author = {Edward Nelson},
   title = {Radically Elementary Probability Theory},
```

```
series = {Annals of Mathematical Studies}
```

## 1.2 Usage

#### :cite:

Create a citation to a bibliographic entry. For example:

```
See :cite: '1987:nelson' for an introduction to non-standard analysis.
```

which would be equivalent to the following LaTeX code:

```
See \cite{1987:nelson} for an introduction to non-standard analysis.
```

```
.. bibliography:: refs.bib [...]
```

Create bibliography for all cited references. The all flag forces all references to be included (equivalent to \nocite(\*) in LaTeX). The notcited flag causes all references that were not cited to be included. The cited flag is recognized as well but is entirely optional. For example:

```
.. rubric:: References
.. bibliography:: refs.bib
    :cited:
.. rubric:: Further reading
.. bibliography:: refs.bib
    :notcited:
```

**Warning:** Sphinx will attempt to resolve references to the bibliography across all documents, so you must take care that no citation key is included more than once.

You can also pick a bibliography style, using the style option. This is not yet quite as useful, as only unsrt is supported, which is also the default.

```
.. bibliography:: refs.bib
    :style: unsrt
```

All citations have numbered labels, as in the plain LaTeX bibliography style, regardless of the style chosen. This limitation might be lifted in a future version.

You can also set the encoding of the bibliography files, using the encoding option.

```
.. bibliography:: refs.bib
    :encoding: latin
```

## 1.3 Extension API

## 1.3.1 Sphinx Interface

```
sphinxcontrib.bibtex.setup(app)
Set up the bibtex extension:
```

- •register nodes
- register roles
- •register transforms
- •connect events to functions

**Parameters app** (sphinx.application.Sphinx) – The sphinx application.

sphinxcontrib.bibtex.init\_bibtex\_cache(app)

Create app.env.bibtex\_cache if it does not exist yet. Reset citation label dictionary.

**Parameters app** (sphinx.application.Sphinx) – The sphinx application.

sphinxcontrib.bibtex.purge\_bibtex\_cache (app, env, docname)

Remove all information related to *docname* from the cache.

#### **Parameters**

- app (sphinx.application.Sphinx) The sphinx application.
- env (sphinx.environment.BuildEnvironment) The sphinx build environment.

sphinxcontrib.bibtex.process\_citations(app, doctree, docname)

Replace labels of citation nodes by numbers.

#### **Parameters**

- app (sphinx.application.Sphinx) The sphinx application.
- doctree (docutils.nodes.document) The document tree.
- docname (str) The document name.

sphinxcontrib.bibtex.process\_citation\_references (app, doctree, docname)
Replace text of citation reference nodes by numbers.

#### **Parameters**

- app (sphinx.application.Sphinx) The sphinx application.
- doctree (docutils.nodes.document) The document tree.
- **docname** (str) The document name.

## 1.3.2 New Doctree Roles

## 1.3.3 New Doctree Nodes

class sphinxcontrib.bibtex.nodes.bibliography (rawsource='', \*children, \*\*attributes)

Node for representing a bibliography. Replaced by a list of citations by BibliographyTransform.

1.3. Extension API 5

## 1.3.4 New Doctree Directives

Class for processing the bibliography directive.

Parses the bibliography files, and produces a bibliography node.

#### See Also:

Further processing of the resulting bibliography node is done by BibliographyTransform.

run()

Process .bib files, set file dependencies, and create a nodes for all entries of the bibliography.

### process\_bibfile (bibfile, encoding)

Check if env.bibtex\_cache.bibfiles[bibfile] is still up to date. If not, parse the *bibfile* (see update\_bibfile\_cache()), and store parsed data in the bibtex cache.

**Parameters bibfile** (str) – The bib file name.

**Returns** The parsed bibliography data.

Return type pybtex.database.BibliographyData

## update\_bibfile\_cache (bibfile, mtime, encoding)

Parse *bibfile* (see parse\_bibfile()), and store the parsed data, along with modification time *mtime*, in the bibtex cache.

### **Parameters**

- bibfile (str) The bib file name.
- **mtime** (float) The bib file's modification time.

**Returns** The parsed bibliography data.

Return type pybtex.database.BibliographyData

## parse\_bibfile (bibfile, encoding)

Parse bibfile, and return parsed data.

**Parameters bibfile** (str) – The bib file name.

**Returns** The parsed bibliography data.

Return type pybtex.database.BibliographyData

## 1.3.5 New Doctree Transforms

### default priority = 10

Priority of the transform. See http://docutils.sourceforge.net/docs/ref/transforms.html

#### apply()

Transform each bibliography node into a list of citations.

## 1.3.6 Cached Information

Classes and methods to maintain any information that is stored outside the doctree.

```
class sphinxcontrib.bibtex.cache.Cache
```

Global bibtex extension information cache. Stored in app.env.bibtex\_cache, so must be picklable.

#### bibfiles

A dict mapping .bib file names (relative to the top source folder) to BibfileCache instances.

## bibliographies

Each bibliography directive is assigned an id of the form bibtex-bibliography-xxx. This dict maps each such id to information about the bibliography directive, BibliographyCache. We need to store this extra information separately because it cannot be stored in the bibliography nodes themselves.

## purge (docname)

Remove all information related to docname.

**Parameters docname** (str) – The document name.

class sphinxcontrib.bibtex.cache.BibfileCache (mtime=None, data=None)
 Contains information about a parsed .bib file.

#### mtime

A float representing the modification time of the .bib file when it was last parsed.

#### data

A pybtex.database.BibliographyData containing the parsed .bib file.

Contains information about a bibliography directive.

## docname

A str containing the name of the document in which the directive occurs. We need this information during the Sphinx event *env-purge-doc*.

#### bibfiles

A list of strs containing the .bib file names (relative to the top source folder) that contain the references.

#### cite

A str. Should be one of:

"cited" Only generate cited references.

"notcited" Only generated non-cited references.

"all" Generate all references from the .bib files.

#### style

The bibtex style.

## 1.4 License

sphinxcontrib-bibtex is a Sphinx extension for BibTeX style citations Copyright (c) 2011-2012 by Matthias C. M. Troffaes All rights reserved.

1.4. License 7

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## **CHAPTER**

## **TWO**

# **INDICES AND TABLES**

- genindex
- modindex
- search

# **PYTHON MODULE INDEX**

## S

```
sphinxcontrib.bibtex,4
sphinxcontrib.bibtex.cache,6
sphinxcontrib.bibtex.directives,5
sphinxcontrib.bibtex.nodes,5
sphinxcontrib.bibtex.roles,5
sphinxcontrib.bibtex.transforms,6
```