

---

# **sphinxcontrib-bibtex-urn**

*Release 0.1.1*

**Niko Savola**

**Apr 14, 2026**



# DOCUMENTATION

<b>1</b>	<b>Features</b>	<b>3</b>
<b>2</b>	<b>Quick start</b>	<b>5</b>
2.1	Installation . . . . .	5
2.2	Usage . . . . .	5
	<b>Bibliography</b>	<b>15</b>
	<b>Python Module Index</b>	<b>17</b>
	<b>Index</b>	<b>19</b>



A Sphinx<sup>1</sup> plugin that extends sphinxcontrib-bibtex<sup>2</sup> with support for **URN identifiers** (specifically National Bibliography Numbers).

BibTeX entries containing a `urn` field are rendered with a hyperlinked identifier, similar to how `doi` fields work:

[Sav23] Niko Savola. Design and modelling of long-coherence qubits using energy participation ratios. Master's thesis, Aalto University, May 2023. [URN:NBN:fi:aalto-202305213270](https://urn.fi/URN:NBN:fi:aalto-202305213270)<sup>3</sup>.

where `URN:NBN:fi:aalto-202305213270` is a clickable link pointing to `https://urn.fi/URN:NBN:fi:aalto-202305213270`.

---

<sup>1</sup> <https://www.sphinx-doc.org/>

<sup>2</sup> <https://sphinxcontrib-bibtex.readthedocs.io/>

<sup>3</sup> <https://urn.fi/URN:NBN:fi:aalto-202305213270>



# FEATURES

- **Country-specific NBNs:** Resolution for National Bibliography Numbers for:
  - AT Austria ([resolver.obvsg.at](https://resolver.obvsg.at/)<sup>4</sup>)
  - HR Croatia ([urn.nsk.hr](https://urn.nsk.hr/)<sup>5</sup>)
  - CZ Czech Republic ([resolver.nkp.cz](https://resolver.nkp.cz/)<sup>6</sup>)
  - FI Finland ([urn.fi](https://urn.fi/)<sup>7</sup>)
  - HU Hungary ([nbn.urn.hu](https://nbn.urn.hu/)<sup>8</sup>)
  - IT Italy ([nbn.depositolegale.it](https://nbn.depositolegale.it/)<sup>9</sup>)
  - NL Netherlands ([persistent-identifier.nl](https://www.persistent-identifier.nl/)<sup>10</sup>)
  - NO Norway ([nb.no](https://www.nb.no/)<sup>11</sup>)
  - SI Slovenia ([nbn.si](https://nbn.si/)<sup>12</sup>)
  - SE Sweden ([urn.kb.se](https://urn.kb.se/)<sup>13</sup>)
- **Global NBNs:** Other URN:NBN: . . . identifiers resolved via [nbn-resolving.org](https://nbn-resolving.org/)<sup>14</sup>.
- **Auto-deduplication:** Automatically suppresses redundant `url` fields that point to the same URN resolver.
- **Any pybtex style:** Works with all built-in and third-party pybtex formatting styles.

---

<sup>4</sup> <https://resolver.obvsg.at/>

<sup>5</sup> <https://urn.nsk.hr/>

<sup>6</sup> <https://resolver.nkp.cz/web/>

<sup>7</sup> <https://urn.fi/>

<sup>8</sup> <https://nbn.urn.hu/resolver/>

<sup>9</sup> <https://nbn.depositolegale.it/>

<sup>10</sup> <https://www.persistent-identifier.nl/>

<sup>11</sup> <https://www.nb.no/>

<sup>12</sup> <https://nbn.si/>

<sup>13</sup> <https://urn.kb.se/>

<sup>14</sup> <https://nbn-resolving.org/>



# QUICK START

## 2.1 Installation

```
uv add sphinxcontrib-bibtex-urn      # or: pip install sphinxcontrib-bibtex-urn
```

## 2.2 Usage

Add the extension to your Sphinx `conf.py`:

```
extensions = [  
    "sphinxcontrib.bibtex",  
    "sphinxcontrib_bibtex_urn",  
]  
  
bibtex_default_style = "alpha"      # any pybtex style works  
bibtex_bibfiles = ["refs.bib"]
```

See the [Usage](#) (page 5) guide for full details and the [Citation style examples](#) (page 7) page for rendered citation style demos.

### 2.2.1 Usage

#### Installation

```
uv add sphinxcontrib-bibtex-urn      # or: pip install sphinxcontrib-bibtex-urn
```

#### Option A — Sphinx extension (recommended)

Add the extension to your `conf.py` **after** `sphinxcontrib.bibtex`. It automatically wraps whatever `bibtex_default_style` you have configured:

```
extensions = [  
    "sphinxcontrib.bibtex",  
    "sphinxcontrib_bibtex_urn",  
]  
  
bibtex_default_style = "alpha"      # any pybtex style works  
bibtex_bibfiles = ["refs.bib"]
```

The extension dynamically wraps your chosen style at build time, so it works with **any** pybtex formatting style — including third-party ones.

### Option B — Direct pybtex style

If you prefer not to use the Sphinx extension, select one of the pre-built styles directly:

```
extensions = [
    "sphinxcontrib.bibtex",
]

bibtex_default_style = "urn_alpha" # or urn_plain, urn_unsrt, urn_unsrtaalpha
bibtex_bibfiles = ["refs.bib"]
```

### Available pre-built styles

Style name	Base style
urn_plain	plain
urn_unsrt	unsrt
urn_alpha	alpha
urn_unsrtaalpha	unsrtaalpha

### BibTeX entries

Add a `urn` field to your `.bib` entries. All URN:NBN namespaces are supported:

```
% URN:NBN:fi - Finnish National Bibliography Number
@mastersthesis{Sav23,
  author = {Niko Savola},
  title = {Design and modelling of long-coherence qubits using energy
    participation ratios},
  school = {Aalto University},
  year = {2023},
  month = {5},
  urn = {URN:NBN:fi:aalto-202305213270},
}

% URN:NBN:de - German National Bibliography Number
@book{Example23,
  author = {Author, Example},
  title = {An Example German Book},
  publisher = {Springer},
  year = {2023},
  urn = {URN:NBN:de:101:1-202301011234},
}
```

The identifier is rendered as a hyperlink pointing to the appropriate national resolver or the general `nbn-resolving.org` service. For instance, `URN:NBN:fi:aalto-202305213270` links to `https://urn.fi/URN:NBN:fi:aalto-202305213270`.

The identifier is rendered as a hyperlink pointing to the appropriate national resolver or the general `nbn-resolving.org`<sup>15</sup> service.

---

<sup>15</sup> <https://nbn-resolving.org/>

## Supported resolvers

Country	Resolver
Austria	<a href="https://resolver.obvsg.at">resolver.obvsg.at</a> <sup>16</sup>
Czech Republic	<a href="https://resolver.nkp.cz">resolver.nkp.cz</a> <sup>17</sup>
Finland	<a href="https://urn.fi">urn.fi</a> <sup>18</sup>
Croatia	<a href="https://urn.nsk.hr">urn.nsk.hr</a> <sup>19</sup>
Hungary	<a href="https://nbn.urn.hu">nbn.urn.hu</a> <sup>20</sup>
Italy	<a href="https://nbn.depositolegale.it">nbn.depositolegale.it</a> <sup>21</sup>
Netherlands	<a href="https://www.persistent-identifier.nl">persistent-identifier.nl</a> <sup>22</sup>
Norway	<a href="https://www.nb.no">nb.no</a> <sup>23</sup>
Sweden	<a href="https://urn.kb.se">urn.kb.se</a> <sup>24</sup>
Slovenia	<a href="https://nbn.si">nbn.si</a> <sup>25</sup>
Other	<a href="https://nbn-resolving.org">nbn-resolving.org</a> <sup>26</sup> (fallback)

### URNs in the `url` field

If the `urn` field is missing, the plugin also scans the `url` field. If it contains a link to a supported URN resolver (e.g., [https://urn.fi/...](https://urn.fi) or [https://nbn-resolving.org/...](https://nbn-resolving.org)), it is automatically “promoted” and formatted as a hyperlinked URN identifier.

If the entry contains both a `urn` field and a `url` field pointing at the same resolver, the redundant URL is automatically suppressed to avoid duplication. The comparison is case-insensitive (per [RFC 8141](https://www.rfc-editor.org/rfc/8141)<sup>27</sup>) and handles both `http://` and `https://` resolver URLs.

### How it works

The plugin provides `UrnStyleMixin`, a `pybtex` style mixin that overrides `format_entry` to append a hyperlinked URN when the field is present. The Sphinx extension (`sphinxcontrib_bibtex_urn`) dynamically wraps your configured style at build time, so it works with *any* `pybtex` formatting style, including third-party ones.

## 2.2.2 Citation style examples

This page demonstrates how URN identifiers render with different `pybtex` citation styles. All examples use the same set of BibTeX entries with `urn` fields.

### Alpha style

The `alpha` style generates labels from the author name and year (e.g., [Sav23]).

This is the style used throughout this documentation (`bibtex_default_style = "alpha"`).

### Plain style

The `plain` style uses numbered labels in order of appearance (e.g., [1], [2]).

<sup>16</sup> [https://resolver.obvsg.at/](https://resolver.obvsg.at)

<sup>17</sup> <https://resolver.nkp.cz/web/>

<sup>18</sup> <https://urn.fi/>

<sup>19</sup> <https://urn.nsk.hr/>

<sup>20</sup> <https://nbn.urn.hu/resolver/>

<sup>21</sup> <https://nbn.depositolegale.it/>

<sup>22</sup> <https://www.persistent-identifier.nl/>

<sup>23</sup> <https://www.nb.no/idtjeneste/search.jsf?urn=>

<sup>24</sup> <https://urn.kb.se/>

<sup>25</sup> <https://nbn.si/>

<sup>26</sup> <https://nbn-resolving.org/>

<sup>27</sup> <https://datatracker.ietf.org/doc/html/rfc8141>

## Comparison: with and without URN

Entries **with** a `urn` field get a hyperlinked identifier appended. Entries **without** one render as standard references. Compare the entries above — for instance, `Knuth86` has no URN and appears as a plain reference, while all other entries show a clickable URN link.

## Available styles

In addition to the two styles shown above, the following pre-built styles are available:

Style name	Base style	Description
<code>urn_alpha</code>	<code>alpha</code>	Author-year labels, sorted alphabetically
<code>urn_plain</code>	<code>plain</code>	Numbered labels, sorted alphabetically
<code>urn_unsrt</code>	<code>unsrt</code>	Numbered labels, in citation order
<code>urn_unsrta</code>	<code>unsrta</code>	Author-year labels, in citation order

All styles append a hyperlinked URN identifier to entries that have a `urn` field. When using the Sphinx extension, *any* pybtex style (including third-party ones) is automatically wrapped with URN support.

## Special behaviors

### Auto-deduplication

The entry `Korhonen19` has both a `urn` field and a `url` field pointing at the same Finnish URN resolver. The plugin automatically suppresses the redundant URL, so only the URN hyperlink appears.

### URL promotion

The entry `UrlPromotion23` has no `urn` field, but its `url` points to `https://urn.fi/...`. The plugin automatically promotes this URL and formats it as a URN hyperlink.

## 2.2.3 API Reference

This section documents the public API of `sphinxcontrib-bibtex-urn`, auto-generated from the source code.

### `sphinxcontrib_bibtex_urn`

Sphinx extension that adds Finnish URN identifier support to `sphinxcontrib-bibtex`.

### Usage

Add `"sphinxcontrib_bibtex_urn"` to the `extensions` list in your Sphinx `conf.py` **after** `"sphinxcontrib.bibtex"`:

```
extensions = [
    "sphinxcontrib.bibtex",
    "sphinxcontrib_bibtex_urn",
]
```

The extension automatically wraps whatever `bibtex_default_style` you have configured so that any BibTeX entry containing a `urn` field will render the identifier as a hyperlink to `https://urn.fi/<URN>`.

Alternatively, you can skip the Sphinx extension and use one of the pre-registered pybtex styles directly:

```
bibtex_default_style = "urn_alpha" # or urn_plain, urn_unsrt, urn_unsrta
```

## Submodules

### sphinxcontrib\_bibtex\_urn.styles

Pybtex style mixin and pre-built styles with URN field support.

## Attributes

`URN_RESOLVER_URL` (page 9)

`NBN_RESOLVERS` (page 9)

`logger` (page 9)

## Classes

`UrnStyleMixin` (page 9)

Mixin that adds a `urn` BibTeX field to any pybtex formatting style.

`PlainUrn` (page 10)

plain style with URN support.

`UnsrUrn` (page 10)

unsr style with URN support.

`AlphaUrn` (page 10)

alpha style with URN support.

`UnsrAlphaUrn` (page 10)

unsralpha style with URN support.

## Functions

`resolve_urn` (page 9)(→ tuple[str, str] | None)

Return (url, display\_text) for a URN value.

## Module Contents

```
sphinxcontrib_bibtex_urn.styles.URN_RESOLVER_URL: str44 =
'https://nbn-resolving.org/'
```

```
sphinxcontrib_bibtex_urn.styles.NBN_RESOLVERS: dict45[str46, str47]
```

```
sphinxcontrib_bibtex_urn.styles.logger
```

```
sphinxcontrib_bibtex_urn.styles.resolve_urn(raw: str48) → tuple49[str50, str51] | None52
```

Return (url, display\_text) for a URN value.

Handles both bare identifiers (e.g., URN:NBN:...) and full resolver URLs.

Supports country-specific NBN resolvers for: AT, CZ, FI, HR, HU, IT, NL, NO, SE, SI. Other NBNs (URN:NBN:...) resolve via `https://nbn-resolving.org/`.

### Args:

`raw`: The raw URN value, either as a bare identifier or a full URL.

### Returns:

A tuple of (url, display\_text), or None if the URN type is not supported.

<sup>44</sup> <https://docs.python.org/3/library/stdtypes.html#str>

<sup>45</sup> <https://docs.python.org/3/library/stdtypes.html#dict>

<sup>46</sup> <https://docs.python.org/3/library/stdtypes.html#str>

<sup>47</sup> <https://docs.python.org/3/library/stdtypes.html#str>

<sup>48</sup> <https://docs.python.org/3/library/stdtypes.html#str>

<sup>49</sup> <https://docs.python.org/3/library/stdtypes.html#tuple>

<sup>50</sup> <https://docs.python.org/3/library/stdtypes.html#str>

<sup>51</sup> <https://docs.python.org/3/library/stdtypes.html#str>

<sup>52</sup> <https://docs.python.org/3/library/constants.html#None>

**class** sphinxcontrib\_bibtex\_urn.styles.**UrnStyleMixin**

Mixin that adds a urn BibTeX field to any pybtex formatting style.

When an entry contains a urn field the mixin appends a hyperlinked URN identifier to the formatted reference. Supported URN namespaces include:

- URN:NBN:fi:... - Finnish NBNs (resolves via <https://urn.fi/>).
- URN:NBN:<CC>:... - Country-specific NBNs (e.g. AT, CZ, HR, HU, IT, NL, NO, SE, SI).
- URN:NBN:... - Other NBNs (resolves via <https://nbn-resolving.org/>).

Note: only URN:NBN identifiers are officially supported. Other URN types will log a warning.

The Sphinx extension (`sphinxcontrib_bibtex_urn`) dynamically wraps your configured style at build time, so it works with *any* pybtex formatting style, including third-party ones.

If the entry also carries a url field whose value points at the same resolver URL the redundant URL is suppressed automatically. The comparison is case-insensitive per [RFC 8141](#)<sup>53</sup>.

**format\_entry** (*label: str*<sup>54</sup>, *entry: pybtex.database.Entry*<sup>55</sup>) → pybtex.style.FormattedEntry

Format an entry, appending a URN hyperlink when the field exists.

**Args:**

label: The entry label. entry: The BibTeX entry to format.

**Returns:**

The formatted entry with URN support.

**class** sphinxcontrib\_bibtex\_urn.styles.**PlainUrn** (*label\_style=None, name\_style=None, sorting\_style=None, abbreviate\_names=False, min\_crossrefs=2, \*\*kwargs*)

Bases: [UrnStyleMixin](#) (page 9), pybtex.style.formatting.plain.Style

plain style with URN support.

**class** sphinxcontrib\_bibtex\_urn.styles.**UnsrUrn** (*label\_style=None, name\_style=None, sorting\_style=None, abbreviate\_names=False, min\_crossrefs=2, \*\*kwargs*)

Bases: [UrnStyleMixin](#) (page 9), pybtex.style.formatting.unsrUrn.Style

unsrUrn style with URN support.

**class** sphinxcontrib\_bibtex\_urn.styles.**AlphaUrn** (*label\_style=None, name\_style=None, sorting\_style=None, abbreviate\_names=False, min\_crossrefs=2, \*\*kwargs*)

Bases: [UrnStyleMixin](#) (page 9), pybtex.style.formatting.alpha.Style

alpha style with URN support.

**class** sphinxcontrib\_bibtex\_urn.styles.**UnsrAlphaUrn** (*label\_style=None, name\_style=None, sorting\_style=None, abbreviate\_names=False, min\_crossrefs=2, \*\*kwargs*)

Bases: [UrnStyleMixin](#) (page 9), pybtex.style.formatting.unsralpha.Style

unsralpha style with URN support.

---

<sup>53</sup> <https://datatracker.ietf.org/doc/html/rfc8141.html>

<sup>54</sup> <https://docs.python.org/3/library/stdtypes.html#str>

<sup>55</sup> <https://docs.pybtex.org/api/parsing.html#pybtex.database.Entry>

## Functions

`setup` (page 11)(→ dict[str, str | bool])

Register the Sphinx extension.

## Package Contents

`sphinxcontrib_bibtex_urn.setup` (*app*: `sphinx.application.Sphinx`<sup>56</sup>) → dict<sup>57</sup>[str<sup>58</sup>, str<sup>59</sup> | bool<sup>60</sup>]

Register the Sphinx extension.

### Args:

*app*: The Sphinx application object.

### Returns:

A metadata dictionary with extension information.

## 2.2.4 Contributing

Inside the project directory, you may run the following commands.

### Development Setup

```
just install
```

### Running tests

```
just test
```

### Running linting & formatting (pre-commit)

```
just pre-commit
```

## AI Usage Policy

The use of AI tools to accelerate your development workflow, whether for prototyping, writing tests, or improving documentation, is **encouraged**.

However, as a contributor, you remain **fully responsible** for the code and content you submit. Please ensure the following:

1. **No “AI Slop”**: Do not submit unreviewed, low-quality, or redundant AI-generated content.
2. **Verify & Test**: All AI-generated code must be reviewed, tested, and verified to work as intended.
3. **Maintainability**: The content must be clear, idiomatic, and maintainable by a human.

## 2.2.5 Contributor Covenant Code of Conduct

### Our Pledge

We pledge to make our community welcoming, safe, and equitable for all. We are committed to fostering an environment that respects and promotes the dignity, rights, and contributions of all individuals, regardless of characteristics including race, ethnicity, caste, color, age, physical characteristics, neurodiversity, disability, sex or gender, gender identity or expression, sexual orientation, language, philosophy or religion, national or social origin, socio-economic

<sup>56</sup> <https://www.sphinx-doc.org/en/master/extdev/appapi.html#sphinx.application.Sphinx>

<sup>57</sup> <https://docs.python.org/3/library/stdtypes.html#dict>

<sup>58</sup> <https://docs.python.org/3/library/stdtypes.html#str>

<sup>59</sup> <https://docs.python.org/3/library/stdtypes.html#str>

<sup>60</sup> <https://docs.python.org/3/library/functions.html#bool>

position, level of education, or other status. The same privileges of participation are extended to everyone who participates in good faith and in accordance with this Covenant.

### Encouraged Behaviors

While acknowledging differences in social norms, we all strive to meet our community's expectations for positive behavior. We also understand that our words and actions may be interpreted differently than we intend based on culture, background, or native language. With these considerations in mind, we agree to behave mindfully toward each other and act in ways that center our shared values, including:

- Respecting the purpose of our community, our activities, and our ways of gathering.
- Engaging kindly and honestly with others.
- Respecting different viewpoints and experiences.
- Taking responsibility for our actions and contributions.
- Gracefully giving and accepting constructive feedback.
- Committing to repairing harm when it occurs.
- Behaving in other ways that promote and sustain the well-being of our community.

### Restricted Behaviors

We agree to restrict the following behaviors in our community. Instances, threats, and promotion of these behaviors are violations of this Code of Conduct.

- **Harassment.** Violating explicitly expressed boundaries or engaging in unnecessary personal attention after any clear request to stop.
- **Character attacks.** Making insulting, demeaning, or pejorative comments directed at a community member or group of people.
- **Stereotyping or discrimination.** Characterizing anyone's personality or behavior on the basis of immutable identities or traits.
- **Sexualization.** Behaving in a way that would generally be considered inappropriately intimate in the context or purpose of the community.
- **Violating confidentiality.** Sharing or acting on someone's personal or private information without their permission.
- **Endangerment.** Causing, encouraging, or threatening violence or other harm toward any person or group.
- **Behaving in other ways that threaten the well-being of our community.**

### Other Restrictions

- **Misleading identity.** Impersonating someone else for any reason, or pretending to be someone else to evade enforcement actions.
- **Failing to credit sources.** Not properly crediting the sources of content you contribute.
- **Promotional materials.** Sharing marketing or other commercial content in a way that is outside the norms of the community.
- **Irresponsible communication.** Failing to responsibly present content which includes, links, or describes any other restricted behaviors.

### Reporting an Issue

Tensions can occur between community members even when they are trying their best to collaborate. Not every conflict represents a code of conduct violation, and this Code of Conduct reinforces encouraged behaviors and norms that can help avoid conflicts and minimize harm. When an incident does occur, it is important to report it promptly.

To report a possible violation, please contact [nikomsavola@gmail.com](mailto:nikomsavola@gmail.com). Community Moderators take reports of violations seriously and will make every effort to respond in a timely manner.

### Addressing and Repairing Harm

In order to honor these values, enforcement actions are carried out in private with the involved parties, but communicating to the whole community may be part of a mutually agreed upon resolution.

If an investigation by the Community Moderators finds that this Code of Conduct has been violated, they may take any action they deem appropriate, up to and including a temporary or permanent ban from the community.

Our goal is to address and repair harm, and to find ways to safely reintegrate someone back into the community after an incident occurs. This may include:

- A private conversation to discuss the behavior and its impact.
- A public or private apology.
- A temporary or permanent ban from certain community spaces or activities.
- A temporary or permanent ban from the community.

### Attribution

This Code of Conduct is adapted from the Contributor Covenant, version 3.0, permanently available at <https://www.contributor-covenant.org/version/3/0/>.

Contributor Covenant is stewarded by the Organization for Ethical Source and licensed under CC BY-SA 4.0. To view a copy of this license, visit <https://creativecommons.org/licenses/by-sa/4.0/>.

## 2.2.6 Security Policy

### Reporting a Vulnerability

I take the security of this project seriously. If you believe you have found a security vulnerability, please report it to me responsibly.

**Please do not report security vulnerabilities through public GitHub issues.**

Instead, please use the [GitHub Private Vulnerability Reporting](#)<sup>61</sup> feature through [Security Advisories](#)<sup>62</sup>, or contact [@nikosavola](mailto:@nikosavola) directly.

### What to include in a report

To help me understand and fix the issue, please include as much information as possible:

- A description of the vulnerability and its potential impact.
- Steps to reproduce the issue (a minimal working example is highly appreciated).
- Any potential mitigations you've identified.

### Process

---

<sup>61</sup> <https://docs.github.com/en/code-security/security-advisories/working-with-repository-security-advisories/configuring-private-vulnerability-reporting-for-a-repository>

<sup>62</sup> <https://github.com/nikosavola/sphinxcontrib-bibtex-urn/security/advisories>



# BIBLIOGRAPHY

- [Aut23] Test Author. Example of url-to-urn promotion. 2023. [URN:NBN:fi:example-promoted](https://urn.fi/URN:NBN:fi:example-promoted)<sup>28</sup>.
- [dV20] Jan de Vries. Persistent identifiers in the dutch national library system. *Journal of Library Metadata*, 20:100–115, 2020. [URN:NBN:nl:ui:25-f930e584-2](https://www.persistent-identifier.nl/URN:NBN:nl:ui:25-f930e584-2)<sup>29</sup>.
- [Han22] Lars Hansen. National bibliography management in norway. In *IFLA World Library Congress*. 2022. [URN:NBN:no:nb:bibsys-12345](https://www.nb.no/idtjeneste/search.jsf?urn=URN:NBN:no:nb:bibsys-12345)<sup>30</sup>.
- [Hub23] Franz Huber. Digitale langzeitarchivierung in österreich. Technical Report, Österreichische Nationalbibliothek, 2023. [URN:NBN:at:at-onb:1-12345](https://resolver.obvsg.at/URN:NBN:at:at-onb:1-12345)<sup>31</sup>.
- [Knu86] Donald E. Knuth. The  $\TeX$  book. *Computers & Typesetting*, 1986.
- [Kor19] Pekka Korhonen. Urn-based resource management in finnish libraries. In *Nordic Digital Library Conference*. 2019. [URN:NBN:fi:example-20190101](https://urn.fi/URN:NBN:fi:example-20190101)<sup>32</sup>.
- [Lin21] Anna Lindgren. *Advances in superconducting qubit architectures*. PhD thesis, KTH Royal Institute of Technology, 2021. [URN:NBN:se:kth:diva-12345](https://urn.kb.se/URN:NBN:se:kth:diva-12345)<sup>33</sup>.
- [Mul22] Max Müller. *Einführung in die Quanteninformatik*. Springer, 2022. [URN:NBN:de:101:1-2022010112345](https://nbn-resolving.org/URN:NBN:de:101:1-2022010112345)<sup>34</sup>.
- [Sav23] Niko Savola. Design and modelling of long-coherence qubits using energy participation ratios. Master's thesis, Aalto University, 5 2023. [URN:NBN:fi:aalto-202305213270](https://urn.fi/URN:NBN:fi:aalto-202305213270)<sup>35</sup>.
- [1] Test Author. Example of url-to-urn promotion. 2023. [URN:NBN:fi:example-promoted](https://urn.fi/URN:NBN:fi:example-promoted)<sup>36</sup>.
- [2] Jan de Vries. Persistent identifiers in the dutch national library system. *Journal of Library Metadata*, 20:100–115, 2020. [URN:NBN:nl:ui:25-f930e584-2](https://www.persistent-identifier.nl/URN:NBN:nl:ui:25-f930e584-2)<sup>37</sup>.
- [3] Lars Hansen. National bibliography management in norway. In *IFLA World Library Congress*. 2022. [URN:NBN:no:nb:bibsys-12345](https://www.nb.no/idtjeneste/search.jsf?urn=URN:NBN:no:nb:bibsys-12345)<sup>38</sup>.
- [4] Franz Huber. Digitale langzeitarchivierung in österreich. Technical Report, Österreichische Nationalbibliothek, 2023. [URN:NBN:at:at-onb:1-12345](https://resolver.obvsg.at/URN:NBN:at:at-onb:1-12345)<sup>39</sup>.

---

<sup>28</sup> <https://urn.fi/URN:NBN:fi:example-promoted>

<sup>29</sup> <https://www.persistent-identifier.nl/URN:NBN:nl:ui:25-f930e584-2>

<sup>30</sup> <https://www.nb.no/idtjeneste/search.jsf?urn=URN:NBN:no:nb:bibsys-12345>

<sup>31</sup> <https://resolver.obvsg.at/URN:NBN:at:at-onb:1-12345>

<sup>32</sup> <https://urn.fi/URN:NBN:fi:example-20190101>

<sup>33</sup> <https://urn.kb.se/URN:NBN:se:kth:diva-12345>

<sup>34</sup> <https://nbn-resolving.org/URN:NBN:de:101:1-2022010112345>

<sup>35</sup> <https://urn.fi/URN:NBN:fi:aalto-202305213270>

<sup>36</sup> <https://urn.fi/URN:NBN:fi:example-promoted>

<sup>37</sup> <https://www.persistent-identifier.nl/URN:NBN:nl:ui:25-f930e584-2>

<sup>38</sup> <https://www.nb.no/idtjeneste/search.jsf?urn=URN:NBN:no:nb:bibsys-12345>

<sup>39</sup> <https://resolver.obvsg.at/URN:NBN:at:at-onb:1-12345>

- [5] Donald E. Knuth. The  $\TeX$  book. *Computers & Typesetting*, 1986.
- [6] Pekka Korhonen. Urn-based resource management in finnish libraries. In *Nordic Digital Library Conference*. 2019. [URN:NBN:fi:example-20190101](https://nbn-resolving.org/URN:NBN:fi:example-20190101)<sup>40</sup>.
- [7] Anna Lindgren. *Advances in superconducting qubit architectures*. PhD thesis, KTH Royal Institute of Technology, 2021. [URN:NBN:se:kth:diva-12345](https://nbn-resolving.org/URN:NBN:se:kth:diva-12345)<sup>41</sup>.
- [8] Max Müller. *Einführung in die Quanteninformatik*. Springer, 2022. [URN:NBN:de:101:1-2022010112345](https://nbn-resolving.org/URN:NBN:de:101:1-2022010112345)<sup>42</sup>.
- [9] Niko Savola. Design and modelling of long-coherence qubits using energy participation ratios. Master's thesis, Aalto University, 5 2023. [URN:NBN:fi:aalto-202305213270](https://nbn-resolving.org/URN:NBN:fi:aalto-202305213270)<sup>43</sup>.

---

<sup>40</sup> <https://urn.fi/URN:NBN:fi:example-20190101>

<sup>41</sup> <https://urn.kb.se/URN:NBN:se:kth:diva-12345>

<sup>42</sup> <https://nbn-resolving.org/URN:NBN:de:101:1-2022010112345>

<sup>43</sup> <https://urn.fi/URN:NBN:fi:aalto-202305213270>

# PYTHON MODULE INDEX

## S

`sphinxcontrib_bibtex_urn`, 8  
`sphinxcontrib_bibtex_urn.styles`, 9



# INDEX

## A

AlphaUrn (class in *sphinxcontrib\_bibtex\_urn.styles*), 10

## F

format\_entry() (sphinxcontrib\_bibtex\_urn.styles.UrnStyleMixin method), 10

## L

logger (in module *sphinxcontrib\_bibtex\_urn.styles*), 9

## M

module  
    sphinxcontrib\_bibtex\_urn, 8  
    sphinxcontrib\_bibtex\_urn.styles, 9

## N

NBN\_RESOLVERS (in module *sphinxcontrib\_bibtex\_urn.styles*), 9

## P

PlainUrn (class in *sphinxcontrib\_bibtex\_urn.styles*), 10

## R

resolve\_urn() (in module *sphinxcontrib\_bibtex\_urn.styles*), 9

RFC

    RFC 8141, 10

## S

setup() (in module *sphinxcontrib\_bibtex\_urn*), 11

sphinxcontrib\_bibtex\_urn  
    module, 8

sphinxcontrib\_bibtex\_urn.styles  
    module, 9

## U

UnsrtAlphaUrn (class in *sphinxcontrib\_bibtex\_urn.styles*), 10

UnsrtUrn (class in *sphinxcontrib\_bibtex\_urn.styles*), 10

URN\_RESOLVER\_URL (in module *sphinxcontrib\_bibtex\_urn.styles*), 9

UrnStyleMixin (class in *sphinxcontrib\_bibtex\_urn.styles*), 9