
Piccolo Theme

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Aug 27, 2022

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A clean and modern theme for [Sphinx](#).

1.1 Install Sphinx

```
pip install sphinx
```

Create a docs folder within your project, and run `sphinx-quickstart`.

```
mkdir docs  
cd docs  
sphinx-quickstart
```

`sphinx-quickstart` will scaffold your documentation for you.

1.2 Install Piccolo Theme

```
pip install piccolo_theme
```

Find the `conf.py` file that Sphinx generated for you. Within that set the following value:

```
html_theme = 'piccolo_theme'
```

1.3 Building your docs

Sphinx creates a `Makefile` in your docs folder. To generate some HTML docs, run the following in the same directory as your `Makefile`:

```
make html
```

Within your docs folder, Sphinx will have generated some HTML files in `_build/html`.

To serve these files using Python, you can use:

```
python -m http.server --directory _build/html/
```

Now open up <http://localhost:8000> in your browser to see your beautiful docs!

CONFIGURATION

2.1 `html_short_title`

If you have a really long project name, you may prefer something shorter to appear in the navigation bar. Specify this using `html_short_title` in `conf.py`:

```
# conf.py

# By default the project value is used in the nav bar.
project = 'My Extra Special Amazing Docs'

# If specified, this will be used in the nav bar instead.
html_short_title = "Amazing Docs"
```

2.2 Theme specific

2.2.1 `source_url`

If specified, a link is shown in the nav bar to the source code.

```
# conf.py

html_theme_options = {
    "source_url": 'https://github.com/piccolo-orm/piccolo_theme/'
}
```

We try and detect if the URL points to GitHub or GitLab, and show the correct icon. However, if you're using a self hosted version of GitHub or GitLab on a custom URL, you can explicitly tell the theme which icon to use:

```
# conf.py

html_theme_options = {
    "source_url": 'https://self-hosted.foo.com/',
    "source_icon": "gitlab"
}
```

The available options for `source_icon` are:

- generic
- github
- gitlab

2.2.2 banner_text

If this is provided then a banner is shown at the top of the page. It's useful for important announcements.

```
# conf.py

html_theme_options = {
    # Note how we can include links:
    "banner_text": 'We just launched a newsletter, <a href="https://mynewsletter.com/">
    ↪ please subscribe</a>!'
}
```

2.2.3 banner_hiding

This controls how the banner behaves when hidden. The options are 'temporary' (the default) or 'permanent'.

If 'temporary', when a user hides the banner they can still reopen it again. This is useful if you want to store important information in the banner, which the user may need to refer to again. For example:

```
# conf.py

html_theme_options = {
    "banner_text": 'Please be aware of security issue XYZ!',
    "banner_hiding": "temporary"
}
```

If 'permanent', when a user hides the banner it disappears permanently. This is useful when the banner contains information which the user is unlikely to need again. For example:

```
# conf.py

html_theme_options = {
    "banner_text": 'Welcome to our amazing documentation!',
    "banner_hiding": "permanent"
}
```

Note: If you configure a different `banner_text` value in the future, then the banner will appear again, even if the user has previously hidden it.

2.2.4 show_theme_credit

At the bottom of the page is a very small link which says `Styled using the Piccolo Theme`.

This helps grow awareness of the project, and attract new contributors.

You can hide this if required:

```
# conf.py

html_theme_options = {
    "show_theme_credit": False
}
```

If hiding it, please consider *supporting us* in a different way.

HELP

The best place to get help is on our [GitHub discussions page](#).

It's also a great place to share any feedback you have about the theme, and how we can make improvements.

SUPPORT US

You can help us in many ways:

- Sharing the project with others
- Leaving [feedback](#)
- Starring the repo on [GitHub](#)
- Making improvements to the theme by making a [pull request](#)
- Buying our [book about documentation and Sphinx](#)

Thanks!

ABOUT

This theme was created to document [Piccolo](#) and sister projects.

Here's a live example of it being used:

- <https://piccolo-orm.readthedocs.io/en/latest/>

CONTRIBUTING

6.1 Styles

We use [Sass](#) as a CSS preprocessor. The styles live in `src/sass`.

To modify the styles, first install Sass:

```
npm install -g sass
```

Then run:

```
./scripts/build-styles.sh
```

This will automatically rebuild your CSS when it detects a change in the Sass files.

6.2 Running the docs

By running Piccolo Theme's docs you can verify that your changes look OK.

First install the requirements:

```
pip install -r requirements/doc-requirements.txt
```

Then launch a web server using the following script:

```
./scripts/run-docs.sh
```

It auto reloads when it detects changes to the documentation or theme files.

This is used to demonstrate various features, and also for testing.

7.1 Autodoc

```
class piccolo_theme.snippets.Column(null: bool = False, primary_key: bool = False, unique: bool = False,  
                                     index: bool = False, required: bool = False, help_text: Optional[str]  
                                     = None, choices: Optional[Type[enum.Enum]] = None,  
                                     db_column_name: Optional[str] = None, secret: bool = False,  
                                     **kwargs)
```

All other columns inherit from `Column`. Don't use it directly.

The following arguments apply to all column types:

Parameters

- **null** – Whether the column is nullable.
- **primary_key** – If set, the column is used as a primary key.
- **default** – The column value to use if not specified by the user.
- **unique** – If set, a unique constraint will be added to the column.
- **index** – Whether an index is created for the column, which can improve the speed of selects, but can slow down inserts.
- **index_method** – If index is set to True, this specifies what type of index is created.
- **required** – This isn't used by the database - it's to indicate to other tools that the user must provide this value. Example uses are in serialisers for API endpoints, and form fields.
- **help_text** – This provides some context about what the column is being used for. For example, for a `Decimal` column called `value`, it could say 'The units are millions of dollars'. The database doesn't use this value, but tools such as Piccolo Admin use it to show a tooltip in the GUI.
- **choices** – An optional Enum - when specified, other tools such as Piccolo Admin will render the available options in the GUI.
- **db_column_name** – If specified, you can override the name used for the column in the database. The main reason for this is when using a legacy database, with a problematic column name (for example 'class', which is a reserved Python keyword). Here's an example:

```
class MyTable(Table):
    class_ = Varchar(db_column_name="class")

>>> await MyTable.select(MyTable.class_)
[{'id': 1, 'class': 'test'}]
```

This is an advanced feature which you should only need in niche situations.

- **secret** – If `secret=True` is specified, it allows a user to automatically omit any fields when doing a select query, to help prevent inadvertent leakage of sensitive data.

```
class Band(Table):
    name = Varchar()
    net_worth = Integer(secret=True)

>>> await Band.select(exclude_secrets=True)
[{'name': 'Pythonistas'}]
```

7.2 Breathe

class **CppClass**

CppClass class.

Details about *CppClass*.

Public Functions

const char ***member_function**(char, int)

A member function.

Parameters

- **c** – a character.
- **n** – an integer.

Throws `std::out_of_range` – parameter is out of range.

Returns a character pointer.

void **cpp_function**(int *a, int *b, int *c)

Doing important things with parameter directions.

Parameters

- **a** – [out] output
- **b** – [in] input
- **c** – [inout] input but gets rewritten

void **c_function**(int *a, int *b, int *c)

Doing important things with parameter directions.

Parameters

- **a** – **[out]** output
 - **b** – **[in]** input
 - **c** – **[inout]** input but gets rewritten
-

7.3 Tables

7.3.1 Table 1

Name	Drives
Alice	True
Bob	True
Curtis	False

7.3.2 Table 2

Header 1	Header 2	Header 3
body row 1	column 2	column 3
body row 2	Cells may span columns. And several paragraphs.	
body row 3	Cells may span rows.	<ul style="list-style-type: none">• Cells• contain• blocks.
body row 4		

7.4 Data definitions

Python A great programming language.

Sphinx A powerful documentation tool.

7.5 Lists

7.5.1 Unordered List

- Python
- Rust
- Javascript

7.5.2 Ordered List

1. Python
 2. Rust
 3. Javascript
-

7.6 Admonitions

Warning: This is a warning!

Error: This is an error!

Hint: This is a hint!

Note: This is a note!

A custom admonition

This is my custom admonition!

CHANGES

8.1 0.12.0

You can now specify the source code URL, and it will show in the nav bar.

```
# conf.py

html_theme_options = {
    "source_url": 'https://github.com/piccolo-orm/piccolo_theme/'
}
```

The icon is inferred automatically based on the URL (in the above example, we show the GitHub logo). You explicitly set the icon if you prefer:

```
# conf.py

html_theme_options = {
    "source_url": 'https://self-hosted.foo.com/',
    "source_icon": "gitlab"
}
```

8.2 0.11.1

Minor style fix on search page.

8.3 0.11.0

Fixed some styles in Sphinx v5.

8.4 0.10.2

Drop Python 3.7 specific syntax.

8.5 0.10.1

Fix typo in `setup.py`.

8.6 0.10.0

Added support for Python 3.6, as many Ubuntu systems will still be using that version, and Sphinx still supports it. Thanks to @oncilla for reporting this issue.

8.7 0.9.0

Improved the appearance of autodoc output for C files (when using [breathe](#)). Courtesy @thijsmie.

8.8 0.8.1

Changed the arrow symbols - they didn't look great on mobile.

8.9 0.8.0

Added spacing between sections, so it's not necessary to add horizontal dividers any more.

My Heading

=====

Section 1

Some content

Section 2

Some content

We can now just do:

```
My Heading
```

```
=====
```

```
Section 1
```

```
-----
```

```
Some content
```

```
Section 2
```

```
-----
```

```
Some content
```

Other minor changes:

- Using unicode triangle character instead of < for some links
- Plain admonitions are now styled properly:

```
.. admonition:: A custom admonition
```

```
    This is my custom admonition!
```

8.10 0.7.1

Improvements to the notification feature - it was causing too many browser reflow operations.

8.11 0.7.0

A notification can now be shown at the top of each page.

```
# conf.py
html_theme_options = {
    "banner_text": 'Welcome to our amazing documentation!',
    "banner_hiding": "permanent"
}
```

This involved quite a few CSS changes - please clear your browser cache if anything appears broken.

8.12 0.6.0

If `html_short_title` is in `conf.py` then this is used in the nav bar instead of the full project title.

8.13 0.5.1

Fixed dark mode styles - some elements weren't visible. Thanks to @alorence for reporting this issue.

8.14 0.5.0

Added table styles.

8.15 0.4.0

Improved the appearance of autodoc output for C++ files (when using `breathe`). Courtesy @thijsmie.

8.16 0.3.0

Added dark mode.

8.17 0.2.5

Improved search styles.

8.18 0.2.4

Added missing `requirements.txt` file to manifest. Thanks to @moorepants for reporting this.

8.19 0.2.3

Make the `page contents` text smaller when the right hand sidebar is hidden.

8.20 0.2.2

Fix missing static files.

8.21 0.2.1

Fix missing static files.

8.22 0.2.0

Improved the main header on mobile - the search bar is replaced with a search icon. Also increased the size of the touch targets for showing / hiding the right sidebar, for easier use on mobile. See [PR 7](#).

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