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# **sphinx-btn**

***Release 0.1.2***

**Pierrick Rambaud**

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## QUICKSTART

This section contains basic information about **sphinx-btn** to get you started.

### 1.1 Installation

Use `pip` to install **sphinx-btn** in your environment:

```
pip install sphinx-btn
```

### 1.2 Extension setup

After installing **sphinx-btn**, add `sphinxcontrib.icon` and `sphinxcontrib.btn` to the list of extensions in your `conf.py` file:

```
extensions = [  
    # [...]   
    "sphinxcontrib.icon",  
    "sphinxcontrib.btn"  
]
```

---

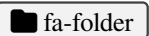
**Note:** The **sphinx-btn** extension relies on **sphinx-icon** to provide access to the fontawesome 6.3.0 icons font/metadata.

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### 1.3 Icon directive

You can now add buttons directly in your documentation:

```
I'm a :btn:`<fa-solid fa-folder> fa-folder` btn.  
I'm a :btn:`<fa-solid fa-folder>` btn.  
I'm a :btn:`fa-folder` btn.
```

I'm a  btn.

I'm a  btn.

I'm a  btn.

---

**Note:** Support is provided for older version of Fontawesome. Documentation using `fas` | `far` | `fab` or `fa` will continue working. Be aware that the icon you want to use may changed name since then.

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## 1.4 HTML output

In the HTML output, the CSS and JS from Fontawesome 6.3.0 are added to the output in the `<head>` tag.

```
<link rel="stylesheet" type="text/css" href="<webpath>/build/html/_font/fontawesome/
↪css/all.min.css">
<!-- -->
<script src="<webpath>/build/html/_font/fontawesome/css/all.min.js">
```

Then for each btn role occurrence an `<span>` of class `guilabel` tag will be used:

```
<span class="guilabel">
  <i class="fa-solid fa-folder"></i>
  <span style="margin-left: .5em;">fa-folder</span>
</span>
```

## 1.5 Latex output

For the latex output, the **sphinx-btn** extention need to use the webfonts provided by fontawesome. It will thus force the use of the XeLaTex builder to allow use of the `fontspec` and `tclobox` packages. Then 3 new font will be added to the preamble of the tex file as well as a `sphinxbtn` command:

```
\newfontfamily{\solid}{fa-solid-900.ttf}
\newfontfamily{\regular}{fa-regular-400.ttf}
\newfontfamily{\brands}{fa-brands-400.ttf}

\newtcbox{\sphinxbtn}[1][]{box align=base, nobeforeafter, size=small, boxsep=2pt, #1}
```

Then for each btn role occurrence the following command will be used:

```
\sphinxbtn{\solid\symbol{"F07B}} fa-folder
```

where `solid` is the font style selected in the role and `F007` being the unicode of the selected icon.

## CONTRIBUTE

Thank you for your help improving **sphinx-btn**!

**sphinx-btn** uses **nox** to automate several development-related tasks. Currently, the project uses four automation processes (called sessions) in `noxfile.py`:

- `mypy`: to perform a mypy check on the lib;
- `test`: to run the test with pytest;
- `docs`: to build the documentation in the `build` folder;
- `lint`: to run the pre-commits in an isolated environment

Every nox session is run in its own virtual environment, and the dependencies are installed automatically.

To run a specific nox automation process, use the following command:

```
nox -s {{session name}}
```

For example: `nox -s test` or `nox -s docs`.

## 2.1 Workflow for contributing changes

We follow a typical GitHub workflow of:

- Create a personal fork of this repo
- Create a branch
- Open a pull request
- Fix findings of various linters and checks
- Work through code review

See the following sections for more details.

## 2.2 Clone the repository

First off, you'll need your own copy of **sphinx-btn** codebase. You can clone it for local development like so:

Fork the repository so you have your own copy on GitHub. See the [GitHub forking guide](#) for more information.

Then, clone the repository locally so that you have a local copy to work on:

```
git clone https://github.com/{{ YOUR USERNAME }}/btn
cd btn
```

Then install the development version of the extension:

```
pip install -e .[dev]
```

This will install the **sphinx-btn** library, together with two additional tools: - **pre-commit** for automatically enforcing code standards and quality checks before commits. - **nox**, for automating common development tasks.

Lastly, activate the pre-commit hooks by running:

```
pre-commit install
```

This will install the necessary dependencies to run pre-commit every time you make a commit with Git.

## 2.3 Contribute to the codebase

Any larger updates to the codebase should include tests and documentation. The tests are located in the `tests` folder, and the documentation is located in the `docs` folder.

To run the tests locally, use the following command:

```
nox -s test
```

See [below](#) for more information on how to update the documentation.

## 2.4 Contribute to the docs

The documentation is built using **Sphinx** and deployed to [Read the Docs](#).


To build the documentation locally, use the following command:

```
nox -s docs
```

For each pull request, the documentation is built and deployed to make it easier to review the changes in the PR. To access the docs build from a PR, click on the “Read the Docs” preview in the CI/CD jobs.

The btn extension allows you to embed fontawesome 6.3.0 icons in guilabels as inline roles in a sphinx documentation.

```
I'm a :btn:<fa-solid fa-folder> fa-folder` btn.
I'm a :btn:<fa-solid fa-folder>` btn.
I'm a :btn:`fa-folder` btn.
```

I'm a  fa-folder btn.

I'm a  btn.



I'm a `fa-folder` btn.



## DOCUMENTATION CONTENTS

The documentation contains 2 sections:

Quickstart   Lib instalation and usage of the video directive  
Contribute   Help us improve the Sphinx extention.