
steenzout.sphinx documentation

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Imagine your organization has several projects for which you need to generate documentation.

Keeping the themes, options, etc in sync can be troublesome specially if each project is in its own repo.

This is where this package can be useful.

This package helps generate the following Sphinx documentation files:

- `conf.py`
- `Makefile`

CHAPTER 1

Tutorial

The first thing you can do is it to create a new sphinx template project for your organization in GitHub (just like this one).

Taking this project as the baseline, first of all you create a `requirements-docs.txt` and add it to the `MANIFEST.in` file.

The `requirements-docs` file should contain all the dependencies you'll need to build the Sphinx documentation for your project.

For example:

```
recommonmark==0.4.0
semantic_version==2.6.0
Sphinx==1.4.8
sphinx_rtd_theme==0.1.9
```

After this you can setup the docs virtualenv in tox.

For example:

```
[testenv:docs]
usedevelop = False
changedir = docs

deps =
  -rrequirements.txt
  -rrequirements-docs.txt

commands =
  steenzout-sphinx-generate organization organization.sphinx .
  make dummy
  make apidoc
  make coverage
  make changes
  make html
```

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```
whitelist_externals =  
    /usr/bin/make
```

Before you continue, you'll need to create a metadata module.

For example:

```
__author__ = u'Myself'  
__author_email__ = u'email@example.com'  
  
__classifiers__ = [  
    'Development Status :: 5 - Production/Stable',  
    'Intended Audience :: Developers',  
    'License :: OSI Approved :: Apache Software License',  
    'Operating System :: OS Independent',  
    'Programming Language :: Python',  
    'Programming Language :: Python :: 2',  
    'Programming Language :: Python :: 2.7',  
    'Programming Language :: Python :: 3',  
    'Programming Language :: Python :: 3.6',  
    'Programming Language :: Python :: 3.5',  
    'Programming Language :: Python :: Implementation :: CPython',  
    'Topic :: Documentation',  
    'Topic :: Documentation :: Sphinx',  
    'Topic :: Software Development :: Documentation'  
]  
__copyright__ = u'2016, %s' % __author__  
  
__description__ = u'Sphinx configuration for YOUR GitHub organization.'  
  
__maintainer__ = u'Myself'  
__maintainer_email__ = u'email@example.com'  
  
__url__ = u'https://github.com/organization/python-sphinx/'  
  
__version__ = u'0.0.1'
```

This metadata module must be placed under `organization/sphinx/metadata.py` directory or else this library won't find it.

The next step is to create a `templates` directory under `organization/sphinx`.

In this directory you should place the `conf.py.j2` and `Makefile.j2` templates you need.

Check this project template files for an example.

After you complete all of these tasks you can now generate your documentation using

```
$ tox -e docs
```

After you complete these steps and you are happy with the results you can use your new `organization.sphinx` templates in any of your projects.

To achieve this you setup your `requirements-docs.txt` by adding your `organization.sphinx` package.

```
-e git+git@github.com:organization/python-sphinx.git@master#egg=organization-sphinx-  
↪master
```


The `tox.ini` file for the project will only change the package being documented.

```
[testenv:docs]
usedevelop = False
changedir = docs

deps =
    -rrequirements.txt
    -rrequirements-docs.txt

commands =
    steenzout-sphinx-generate organization organization.project .
    make dummy
    make apidoc
    make coverage
    make changes
    make html

whitelist_externals =
    /usr/bin/make
```

You also need to add the project metadata into the `organization/project/metadata.py` file.

In the end you can generate all the documentation with the `tox -e docs` command.

The End

This section contains information on a specific function, class, or method.

2.1 steenzout package

2.1.1 Subpackages

steenzout.sphinx package

Submodules

steenzout.sphinx.cli module

Command line interface package.

steenzout.sphinx.metadata module

Package metadata module.

Module contents

Package to standardize Sphinx documentation in a GitHub organization.

class ResourceGenerator (*organization, package*)

Bases: `object`

Class to generate Sphinx resources.

Parameters

- **organization** (*str*) – name of the profile of the organization on GitHub.
- **package** (*str*) – package to be documented.
- **metadata** (*Python module*) – module containing the package metadata.
- **env** (`jinjia2.Environment`) – the Jinja2 environment.

conf()

Generate the Sphinx *conf.py* configuration file

Returns the contents of the *conf.py* file.

Return type (*str*)

makefile()

Generate the documentation Makefile.

Returns the contents of the *Makefile*.

Return type (*str*)

2.1.2 Module contents

steenzout namespace package.

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