



FREE eBook

LEARNING python-sphinx

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#python-
sphinx

Table of Contents

About	1
Chapter 1: Getting started with python-sphinx	2
Remarks.....	2
Examples.....	2
Installation or Setup.....	2
Quick Start.....	2
Chapter 2: Build Documentation	4
Introduction.....	4
Examples.....	4
Build Documentation.....	4
Chapter 3: Writing docstrings using autodoc	5
Introduction.....	5
Examples.....	5
Installing the autodoc extension.....	5
Adding your code path in the sphinx config.....	5
Credits	6

About

You can share this PDF with anyone you feel could benefit from it, downloaded the latest version from: [python-sphinx](#)

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Chapter 1: Getting started with python-sphinx

Remarks

This section provides an overview of what python-sphinx is, and why a developer might want to use it.

It should also mention any large subjects within python-sphinx, and link out to the related topics. Since the Documentation for python-sphinx is new, you may need to create initial versions of those related topics.

Examples

Installation or Setup

Since [Sphinx](#) is available on the [Python Package Index](#), it can be installed using [pip](#):

```
pip install Sphinx
```

or you can also install using `easy_install`

```
easy_install -U sphinx
```

Then you can check that it has been correctly installed by executing the following command:

```
> sphinx-quickstart --version  
Sphinx v1.4.1
```

Before proceeding ahead you need to follow certain code style for python [PEP 8](#). If you have followed [PEP 8](#) guideline then you can [define document structure](#) in sphinx and start [building your documentation](#).

Quick Start

To get started go to root of project directory and run :

```
$ sphinx-quickstart
```

You will get options to create documentation for your project. For default setup follow below commands:

```
Prompt      Choice  
> Root path for the documentation [.] :    <ENTER>  
> Separate source and build directories (y/N) [n] :    y  
> Name prefix for templates and static dir [_] :    <ENTER>  
> Project name:    an_example_pypi_project
```

```
> Author name(s):      Andrew Carter
> Project version:     0.0.1
> Project release [0.0.1]:      <ENTER>
> Source file suffix [.rst]:     <ENTER>
> Name of your master document (without suffix) [index]:      <ENTER>
> autodoc: automatically insert docstrings from modules (y/N) [n]:      y
> doctest: automatically test code snippets in doctest blocks (y/N) [n]:      n
> intersphinx: link between Sphinx documentation of different projects (y/N) [n]:      y
> todo: write "todo" entries that can be shown or hidden on build (y/N) [n]:      n
> coverage: checks for documentation coverage (y/N) [n]:      n
> pngmath: include math, rendered as PNG images (y/N) [n]:      n
> jsmath: include math, rendered in the browser by JSMath (y/N) [n]:      n
> ifconfig: conditional inclusion of content based on config values (y/N) [n]:      y
> Create Makefile? (Y/n) [y]:      n
> Create Windows command file? (Y/n) [y]:      n
```

Upon successful execution you may discover config.py file in your doc/source directory of your project. This file has control to basic structure of how your document will generate when you run build command as below

```
$ sphinx-build -b html sourcedir builddir
```

Detailed instructions are available at :

https://pythonhosted.org/an_example_pypi_project/sphinx.html

Read [Getting started with python-sphinx online](https://riptutorial.com/python-sphinx/topic/7147/getting-started-with-python-sphinx): <https://riptutorial.com/python-sphinx/topic/7147/getting-started-with-python-sphinx>

Chapter 2: Build Documentation

Introduction

Examples

Build Documentation

Build the documentation for existent doc source with specified source doc directory and where to be built like following:

```
sphinx-build -b html source build
```

Read Build Documentation online: <https://riptutorial.com/python-sphinx/topic/9368/build-documentation>

Chapter 3: Writing docstrings using autodoc

Introduction

Sphinx allows the inclusion of docstrings in the documentation using the [autodoc extension](#) which is shipped with the package. This documentation will show you how to format your docstrings and how to include them in your documentation.

Examples

Installing the autodoc extension

Add the autodoc module in the `extensions list` present in the `conf.py` file at the root of your documentation:

```
extensions = [  
    'sphinx.ext.autodoc',  
    ...  
]
```

Adding your code path in the sphinx config

Autodoc needs to import your modules to work.

You can include your code path in your `conf.py` file.

For instance:

```
import os  
sys.path.insert(0, os.path.abspath('../src'))
```

Read [Writing docstrings using autodoc online](https://riptutorial.com/python-sphinx/topic/8100/writing-docstrings-using-autodoc): <https://riptutorial.com/python-sphinx/topic/8100/writing-docstrings-using-autodoc>

Credits

S. No	Chapters	Contributors
1	Getting started with python-sphinx	Community , Gahan , Tryph
2	Build Documentation	Kaitou
3	Writing docstrings using autodoc	Timotheus.Kampik , user312016