

---

# SphinxTest Documentation

*Release packagetest*

**Lucas GC Bandeira**

**Mar 06, 2019**

---

## Quick start:

---

<b>1</b>	<b>The index.rst file</b>	<b>1</b>
<b>2</b>	<b>Getting Started with this test</b>	<b>2</b>
2.1	Some math . . . . .	2
2.2	Using markdown . . . . .	2
<b>3</b>	<b>Docstring Format</b>	<b>3</b>
3.1	Solution . . . . .	3
<b>4</b>	<b>Testing the Code</b>	<b>4</b>
4.1	sphinxtest.alpha package . . . . .	4
<b>5</b>	<b>sphinxtest package</b>	<b>6</b>
5.1	Subpackages . . . . .	6
5.2	Module contents . . . . .	7
<b>6</b>	<b>Indices and tables</b>	<b>8</b>
	<b>Python Module Index</b>	<b>9</b>

# CHAPTER 1

---

## The index.rst file

---

This file is located within the *docs* root and creates the table of contents (TOC) for displaying next to the page.

```
.  
├── _build  
│   └── html  
├── _static  
│   ├── aboutindex.rst  
│   ├── introduction.rst  
│   └── numpydocstrings.rst  
├── _templates  
├── conf.py  
├── index.rst <— the index file  
└── make.bat  
    └── Makefile
```

### index.rst

While not mandatory, this helps with navigation quite a bit.

Unfortunately, the index.rst is much more difficult to automate as it is the basic source file of Sphinx.

If a new modules is created, its path needs to be written down in the index.rst file for it to show up in the TOC.

# CHAPTER 2

---

## Getting Started with this test

---

Sphinx is made with reStructured text. It is a bit different than markdown.

- This is some wild stuff right here.
- directives use “;”
- it is quite annoying to get used to

### 2.1 Some math

$$\frac{\sum_{t=0}^N f(t, k)}{N}$$

That was some math. I bet it looks cool. Every tool I have for previewing this sucks.

### 2.2 Using markdown

Markdown may be used at the cost of some advanced functionalities

Blog post of some nerd ranting about it

#### Main points:

- Markdown has no set standard
  - There are a million interpreters with millions of syntax
- Harder to expand
  - May rely on CSS stuff
  - Breaks portability for other tools

*Basically,*

**reStructured text is awful to write but is more stable and standard for documentation**

# CHAPTER 3

---

## Docstring Format

---

Back in the day, docstrings used to be just plain reStructuredText inside of docstrings.

- It was very gross.
- For everyone.

### 3.1 Solution

Numpy Project and Google defined a non-gross docstring formats that everyone accepts and Sphinx recognizes.

- Sphinx needs an addon called “Napoleon” to interpret them.
- It is not a problem. This is defined in the doc’s conf.py.

Numpy docstrings Example

conf.py:

```
extensions = [  
    'sphinx.ext.autodoc',  
    'sphinx.ext.intersphinx',  
    'sphinx.ext.todo',  
    'sphinx.ext.coverage',  
    'sphinx.ext.mathjax',  
    'sphinx.ext.ifconfig',  
    'sphinx.ext.viewcode',  
    'sphinx.ext.githubpages',  
    'sphinx.ext.napoleon', # <- Here is Napoleon  
]
```

See also: [Google docstrings Example](#)

The code in `sphinxtutorial.alpha` and `sphinxtutorial.beta` utilize this Docstring format and are automatically generated.

# CHAPTER 4

---

## Testing the Code

---

The `Foo` is an extremely powerful class. The number of bar power defined by its `power`, which is a `int`.

---

`alpha`

The alpha `__init__` docstr

---

### 4.1 sphinxtest.alpha package

#### 4.1.1 Module contents

##### The alpha `__init__` docstr

`class Foo(barPower)`

Bases: `object`

This is the Foo class.

Create powerful Foo objects for generating foobars

`power(int)`

Amount of bar energy contained in this Foo instance.

**Parameters** `barPower (int)` – The bar energy to be contained in this Foo instance.

**Raises** `AssertionError` – If barPower is less than 6, crap itself.

##### Examples

```
>>> from test import Foo
>>> x = Foo(6)
>>> x.bar()
foobar0
```

(continues on next page)

(continued from previous page)

```
foobar1
foobar2
foobar3
foobar4
foobar5
```

**bar()**

Generate foobars based on bar energy.

# CHAPTER 5

---

## sphinxtest package

---

### 5.1 Subpackages

#### 5.1.1 sphinxtest.beta package

##### Module contents

###### The `__init__` docstr

```
class Waldo(pos)
Bases: object
```

This is the Waldo class

###### Parameters

- `pos` (`(Tuple(int, int, int))`) – Waldo's current position
- `pos` – Start Waldo in this position

###### `whereIsHe()`

Show Waldo's Position

**Returns** 3 dimension coordinate of Waldo's position

**Return type** `list`

###### Example

```
>>> from sphinxtest.beta import Waldo
>>> w=Waldo([2,3,5])
>>> w.whereIsHe()
[2,3,5]
```

## 5.2 Module contents

### 5.2.1 Top level doctring

# CHAPTER 6

---

## Indices and tables

---

- genindex
- modindex
- search

---

## Python Module Index

---

### S

sphinxtest, [7](#)  
sphinxtest.alpha, [4](#)  
sphinxtest.beta, [6](#)

---

## Index

---

### B

bar() (Foo method), [5](#)

### F

Foo (class in sphinxtest.alpha), [4](#)

### P

power (Foo attribute), [4](#)

### S

sphinxtest (module), [7](#)

sphinxtest.alpha (module), [4](#)

sphinxtest.beta (module), [6](#)

### W

Waldo (class in sphinxtest.beta), [6](#)

whereIsHe() (Waldo method), [6](#)