

Adapted from:

https://codeandchaos.wordpress.com/2012/07/30/sphinx-autodoc-tutorial-for-dummies/http://www.sphinx-doc.org/en/stable/tutorial.html

- Sphinx can be used to turn your docstrings into beautiful web pages
- It was originally created for the Python documentation, and it has excellent facilities for the documentation of software projects in a range of languages.
- First lets make proper numpydoc docstrings:

```
def fib(n):
    Return the first Fibonacci number above n.
    Iteratively calculate Fibonacci numbers until it finds one
    greater than n, which it then returns.
    Parameters
    n : integer
      The minimum threshold for the desired Fibonacci number.
    Returns
    b : integer
      The first Fibonacci number greater than the input, `n`.
    Examples
    >>> fib.fib(1)
    >>> fib.fib(3)
    \mathbf{H} \mathbf{H} \mathbf{H}
```

Now lets setup our Sphinx configuration:

```
$ mkdir docs
$ sphinx-quickstart
Welcome to the Sphinx 1.2.3 quickstart utility.

Please enter values for the following settings (just press Enter to accept a default value, if one is given in brackets).

Enter the root path for documentation.
> Root path for the documentation [.]: docs
```

- I took mostly the default options except I enabled autodoc and asked for a Makefile to be created
- Now we need to tell it where our code is. Edit the newly created docs/conf.py and add:

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

We also need to add numpydoc to the list of extension:

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

 And finally tell Sphinx the modules that should be documented. Edit index.rst to add the modules of interest:

```
Welcome to fibonacci's documentation!
______
Contents:
.. toctree::
  :maxdepth: 2
.. automodule:: fib
  :members:
Indices and tables
============
* :ref:`genindex`
* :ref:`modindex`
* :ref:`search`
```

To actually generate the documentation run:

```
$ make html
sphinx-build -b html -d _build/doctrees . _build/html
Making output directory...
Running Sphinx v1.2.3
loading pickled environment... not yet created
building [html]: targets for 1 source files that are out of date
updating environment: 1 added, 0 changed, 0 removed
reading sources... [100%] index
looking for now-outdated files... none found
pickling environment... done
checking consistency... done
preparing documents... done
writing output... [100%] index
writing additional files... genindex py-modindex search
copying static files... done
copying extra files... done
dumping search index... done
dumping object inventory... done
build succeeded.
Build finished. The HTML pages are in _build/html.
$ open build/html/index.html
```



fibonacci 1.0 documentation »

Table Of Contents

Welcome to fibonacci's documentation! Indices and tables

This Page

Show Source

Quick search



Enter search terms or a module, class or function name.

Welcome to fibonacci's documentation!

Contents:

fib. fib(n)

Return the first Fibonacci number above n.

Iteratively calculate Fibonacci numbers until it finds one greater than n, which it then returns.

Parameters: n:integer

The minimum threshold for the desired Fibonacci number.

Returns: b : integer

The first Fibonacci number greater than the input, n.

Examples

```
>>> fib.fib(1)
2
>>> fib.fib(3)
5
```

Indices and tables

- Index
- Module Index
- · Search Page

fibonacci 1.0 documentation »

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