

# Beginning PyQt

`https://github.com/vimalkumarvelayudhan/sphinx-build-qt`

Vimalkumar Velayudhan

`http://flavors.me/vimalkumarvelayudhan`

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PyQt<sup>1</sup>

Python bindings to the Qt<sup>a</sup> cross-platform GUI framework.

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<sup>a</sup><http://qt.nokia.com/>

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<sup>1</sup><http://www.riverbankcomputing.co.uk/software/pyqt/intro>

# What are we doing today?

Build a simple PyQt GUI for `sphinx-build`, a command line utility from the Python Sphinx<sup>2</sup> project.

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<sup>2</sup><http://sphinx.pocoo.org>

# Sphinx and sphinx-build

- Documentation system for Python projects
- Write once, generate many
- Write your documentation in plain text using the reStructuredText syntax
- Generates HTML, epub, PDF,  $\text{\LaTeX}$  and other formats
- `sphinx-build` is used to generate output from the source files

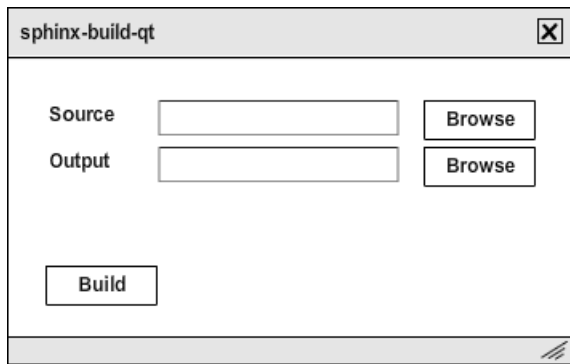
## Usage

```
sphinx-build sourcedir outdir
```

-b can be used to specify builder to use. Default is html

```
sphinx-build --help for more details
```

# Designing the interface (mockup)



Lets use *Qt Designer* to build this!

# Convert user interface code to Python code

- The user interface file (\*.ui) is in XML format
- We need to convert this to Python code to use in our application
- To do this we can use the `pyuic4` script bundled with PyQt

```
pyuic4 -o ui_dialog.py dialog.ui
```

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# Resources

- sphinx-build-qt [github]  
<https://github.com/vimalkumarvelayudhan/sphinx-build-qt>
- PyQt Documentation  
<http://www.riverbankcomputing.co.uk/static/Docs/PyQt4/html/index.html>
- Rapid GUI Programming with Python and Qt [Book], Mark Summerfield  
<http://www.qtrac.eu/pyqtbook.html>
- Tutorials [PyQt4 wiki]  
<http://diotavelli.net/PyQtWiki/Tutorials>
- Sphinx  
<http://sphinx.pocoo.org>