
scikit-surgery Documentation

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SciKit-Surgery is part of the [SciKit-Surgery](#) image guided surgery software project, developed at the [Wellcome EPSRC Centre for Interventional and Surgical Sciences](#), part of [University College London \(UCL\)](#).

scikit-surgery is a meta-package that will install several other packages:

- [scikit-surgerycore](#)
- [scikit-surgeryimage](#)
- [scikit-surgeryvtk](#)
- [scikit-surgeryutils](#)

CHAPTER 1

Installing

You can install the latest version from PyPI:

```
pip install scikit-surgery
```


2.1 Cloning

You can clone the repository using the following command:

```
git clone https://github.com/UCL/scikit-surgery
```

2.2 Running the tests

You can run the unit tests by installing and running tox:

```
pip install tox
tox
```

2.3 Encountering Problems?

Please check list of [common issues](#).

2.4 Contributing

Please see the [contributing guidelines](#).

2.5 Useful links

- [Source code repository](#)

- [Documentation](#)

CHAPTER 3

Licensing and copyright

Copyright 2018 University College London. scikit-surgery is released under the BSD-3 license. Please see the [license file](#) for details.

Acknowledgements

Supported by [Wellcome](#) and [EPSRC](#).

4.1 Requirements for scikit-surgery

This is the software requirements file for scikit-surgery, part of the SNAPPY project. The requirements listed below should define what scikit-surgery does. Each requirement can be matched to a unit test that checks whether the requirement is met.

4.1.1 Requirements

ID	Description	Unit test
0000	Module has a help page	
0001	Functions are documented	
0002	Package has a version number	

4.2 Get started with PyCharm

PyCharm is a popular python editor. This is a quickstart guide setting up PyCharm for developing sksurgery. This assumes you have PyCharm installed and configured to support virtual environments.

1. Start PyCharm
2. Select File > Open
3. Select the project's folder
4. Open in a new window
5. Open Preferences

6. Click on Project: [YourProject] and select Project Interpreter
7. At the right of the Project Interpreter, click the cog
8. Select Add Local...
9. Select Virtual Environment
10. Choose a location for your virtual environment (for example, [YourHome-Folder]/VirtualEnvs/[YourProjectName])
11. Select a base interpreter (usually the latest version of Python 3).
12. Recommended settings: Do not inherit global site-packages, and do not make available to all projects.
13. Click OK
14. Click on Terminal
15. *pip install tox*
16. *tox*
17. Expand the project
18. Right-click on the Tests folder and choose “Run Unittests in tests”. This will create a new configuration for running tests
19. Right-click on sksurgery and select Run sksurgery. This will create a new configuration for running the project.
20. Switch between the program and test configurations using the drop-down at the top of the screen, and the green arrow to run or the green bug to debug.
 - modindex
 - genindex
 - search