Installation

# Install Python

1. Download Anaconda 64bit python 3.5 <https://www.continuum.io/downloads>
2. Install Anaconda (make sure to tick the options add to system path and register as python 3.5

# Install Github

1. Download and install [Github Desktop](https://desktop.github.com/) and create a [Github account](http://www.github.com/)
2. Give Serwan your account details to add you to the private git

### Operation GitHub

1. Commit your changes to the master branch including a meaningful heading and commentary
2. Sync with the master branch to get other people’s changes

# Install SilQ

1. Clone the [repository SilQ](https://github.com/nulinspiratie/SilQ) into your hard drive (e.g. User/Documents/PythonSoftware) using the installed Github desktop
2. Open Command prompt (type cmd into start menu and right click to open as administrator)
   1. Navigate to SilQ folder on your computer
   2. Run “python setup.py develop”
   3. It will likely say that packages are missing (usually lmfit and peakutils). Install these missing packages like instructed (conda (or pip) install lmfit and peakutils)

# Install QCodes

1. Analogous to SilQ: Clone the github repository [QCodes](https://github.com/nulinspiratie/Qcodes) into your hard drive into the SilQ folder (e.g. User/Documents/PythonSoftware/SilQ/) using the installed Github desktop
   1. Open command prompt, Navigate to the Qcodes folder on your computer, run ‘python setup.py develop’ and install missing packages (usually coverage and pyqtgraph)

The measurement software SilQ and QCodes can be imported as a package, just like any other python packages. To use the measurement software in your script, use the following line

**import** qcodes **as** qc

import silq as sq

# Install the IDE

Jupyter Notebook

should be already installed alongside Anaconda Python

### PyCharm

1. Download, install, and open [PyCharm Community Edition](https://www.jetbrains.com/pycharm/download/#section=windows) (or use the professional version which is free for students)
2. Open SilQ project
3. Go to file -> default settings -> project interpreter
4. Set interpreter to the newly installed Python Anaconda 3.5
5. Restart PyCharm

To run qcodes write your commands after

**if** \_\_name\_\_ == **"\_\_main\_\_"**: