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Python Setup – Windows

System requirement

- Windows 7 or newer
- Python 2.7.*

1. Installing Python 2.7

Follow the below link for python and pip installation

<https://github.com/BurntSushi/nfldb/wiki/Python-&-pip-Windows-installation>

2. Install the modules: **pypiwin32**, **pyserial**, **pyqtgraph**, **scipy**, **termcolor**, **PyOpenGL** and **matplotlib**.

```
> pip install pyserial pyqtgraph scipy termcolor matplotlib PyOpenGL
```

3. Install the **PyQt4**

Here are Windows wheel packages built by Chris Golke.

<https://www.lfd.uci.edu/~gohlke/pythonlibs/#pyqt4>

In the filenames cp27 means C-python version 2.7, cp35 means python 3.5, etc

Make sure you download the correct whl file (python version, 32/64 bit), and then use pip to install it e.g:

```
> pip install C:\downloads\PyQt4-4.11.4-cp27-cp27m-win_amd64.whl
```

Should properly install if you are running an x64 build of Python 2.7.

Python Setup – Linux (Ubuntu)

System requirement

- Ubuntu 16.04 or newer
- Python 2.7.*

1. Without installing anything Ubuntu 16.04 already have versions of python 2.7. Enter below command to check python version

```
> python --version
```

If python 2.7 is not installed then enter below commands to install python 2.7

```
> sudo apt update
```

```
> sudo apt dist-upgrade
```

```
> sudo apt install python2.7 python-pip
```

2. Update your system software

```
> sudo apt-get update
```

```
> sudo apt-get upgrade
```

3. Install **PIP** by enter below command

```
> sudo apt-get install python-pip
```

4. Once the pip's installation is completed you can verify that it was successful by using below command

```
> pip -V
```

6. Install **PyQt4** and **Tkinter** package.

```
> sudo apt-get install python-qt4
```

```
> sudo apt-get install python-tk
```

7. Install **BlueZ** utility as below

```
> sudo apt-get install bluez
```

8. Enter below command. If it open, then above installation is successfully completed

```
> gatttool -I
```

9. To check the list of nearby Bluetooth devices. Enter below commands.

```
> sudo hcitool lscan
```

10. Install the modules: **pyserial**, **pyqtgraph**, **scipy**, **termcolor**, **PyOpenGL** and **matplotlib**.

```
> sudo pip install pyserial pyqtgraph scipy termcolor matplotlib PyOpenGL
```

Python Setup – Linux (Other)

1. PyCharm Community Edition (<https://www.jetbrains.com/pycharm/download>). PyCharm Community Edition is free and open source.

2. Install below package

- Python 2.7
- PIP
- PyQt4
- Tkinter
- BlueZ

3. Follow Steps number 8 to 10 in previous section [Python Linux\(Ubuntu\)](#)