



**Training
YOLO v3
for
Objects
Detection
with
Custom Data**

***Installing PyQt5 and
Qt Designer***

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PyQt is the Python bindings for *Qt* application development framework.
Qt, in turn, is a free and open-source widget toolkit for creating graphical user interfaces.

There are *two main options* on how to install *PyQt5* and *Qt Designer*:

- all together by *Anaconda*
- separately

PyQt5 and Qt Designer all together

The **easiest way** to install *PyQt5* and *Qt Designer* is by using *Anaconda*. Activate your *Python v3* environment and run following command in *Terminal* (or *Anaconda Prompt*):

```
conda install -c anaconda pyqt
```

This option works for **Linux**, **Windows** and **Mac**.

PyQt5 separately

In order to install *PyQt5* separately, activate your *Python v3* environment and run following command in *Terminal* (or *Anaconda Prompt*):

```
pip install PyQt5
```

or:

```
pip3 install PyQt5
```

This option works for **Linux**, **Windows** and **Mac**.

Qt Designer separately

For **Linux** (Debian/Ubuntu), in order to install *Qt Designer* separately, activate your *Python v3* environment and run following commands in *Terminal*:

```
sudo apt-get install python3-pyQt5
```

```
sudo apt-get install pyQt5-dev-tools
```

```
sudo apt-get install Qttools5-dev-tools
```

For **Windows**, in order to install *Qt Designer* separately, activate your *Python v3* environment and run following command in *Anaconda Prompt*:

```
pip install pyqt5-tools
```

or:

```
pip3 install pyqt5-tools
```

For **Mac**, in order to install *Qt Designer* separately, download *standalone installer* from given resource in *Useful Links* section below [4].

Verify installation of PyQt5

To check if **PyQt5 was installed**, run *Python* in any form (e.g., just activate your environment created with *conda* and type *python*) and use following two lines of code:

- ```
from PyQt5.Qt import PYQT_VERSION_STR
```
- ```
print(PYQT_VERSION_STR)
```

As a result, the version of installed *PyQt* has to be shown, like this: 5.9.2

Also, you can verify installation by running only one line of the code in *Terminal* (or *Anaconda Prompt*), but don't forget to activate your environment:

```
python -c "from PyQt5.Qt import PYQT_VERSION_STR; print(PYQT_VERSION_STR)"
```

Verify installation of Qt Designer

To check **if Qt Designer was installed**, open *Terminal* (or *Anaconda Prompt*), activate your environment where you have installed *Qt Designer* and use following command:

- `designer`

As a result, the *main window* of *Qt Designer* will be opened.

For **Windows** you can also find executable file to open *Qt Designer*:

```
UserName\Anaconda3\Library\bin\designer.exe
```

or:

```
UserName\Miniconda3\Library\bin\designer.exe
```

For **Mac** you can find executable file to open *Qt Designer*:

```
/Users/apple/anaconda3/bin/Designer.app/Contents/MacOS
```

or:

```
/Users/apple/miniconda3/bin/Designer.app/Contents/MacOS
```

Useful Links

Check out additional links with other useful and free resources for installing *PyQt5* and *Qt Designer* that you might find great for your future work:

- [1] [Anaconda package](#) – installing *PyQt5* and *Qt Designer* **all together** by *Anaconda* for **Linux, Windows** and **Mac**
- [2] [PyQt5 by pip](#) – installing *PyQt5* **separately** for **Linux, Windows** and **Mac**
- [3] [Qt Designer by pip for Windows](#) – installing *Qt Designer* **separately** for **Windows**
- [4] [Qt Designer for Mac](#) – installing *Qt Designer* **separately** for **Mac** by standalone installer
- [5] [Full Qt installation](#) – installing full, free and open source *Qt* from official resource