

## // GitHub Account and Installation

We are going to be using Git, a common programming collaboration tool, throughout these tutorials. While it is possible to take part in this mini-course without a GitHub account, we highly recommend making one in order to fully take advantage of the lessons and resources.

1. Go to [www.github.com](https://www.github.com)
2. Click the "Sign up" button in the upper right
3. Fill in the account details you would like to use
  - a. Use the free subscription
4. Verify the account by following the instructions in the verification e-mail

## // Python 3.7 and Jupyter notebook Installation Instructions //

If you have a Mac or Linux machine, then you already have Python installed, however, it might be an older version. **We will be supporting Python 3.7 and Anaconda installed through Bash.** If you choose not to use Anaconda or Bash, then it will be up to you to make sure your Python installation is correct (see tests below)

To check your python version, open a terminal and type `bash` or `bash -l` (lower-case L) and type `python` after the prompt. This will open the Python interpreter and it will tell you which version you have. Type `exit()` to close the Python interpreter when you are finished. See the example below.

```
Last login: Fri May 24 15:16:11 on ttys002
MacBook-Pro:~ Cashman$ python
Python 3.6.6 |Anaconda custom (64-bit)| (default, Jun 28 2018, 11:07:29)
[GCC 4.2.1 Compatible Clang 4.0.1 (tags/RELEASE_401/final)] on darwin
Type "help", "copyright", "credits" or "license" for more information.
>>> exit()
```

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In this workshop we will be using **Python 3.x** (the x referring to any version of 3.0 or later) along with Jupyter notebooks. If you do not have Python 3.x (or wish to upgrade to the latest Python 3.7 version) or Jupyter notebooks installed, you can do both easily and at the same time by installing Anaconda. This will also ensure that you have all required packages.

- Visit <https://www.anaconda.com/distribution/>
- Select your platform (Mac, Linux, or Windows)
- Click the big green "Download" button for Python 3.7 version

For Mac or Windows, Double-click the file and follow the install instructions.

For Linux installation, the downloaded file is a shell script. Anaconda requires the bash shell. You can switch to the bash shell by typing `bash` or `bash -l` (bash lower-case L) at the terminal prompt. Download the shell script, then run the script by typing `sh file.sh` at the prompt, making sure to replace `file.sh` with the actual name of the downloaded script.

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If you have Python 3.x already installed, and you only want to install Jupyter notebook, you can do so using conda.

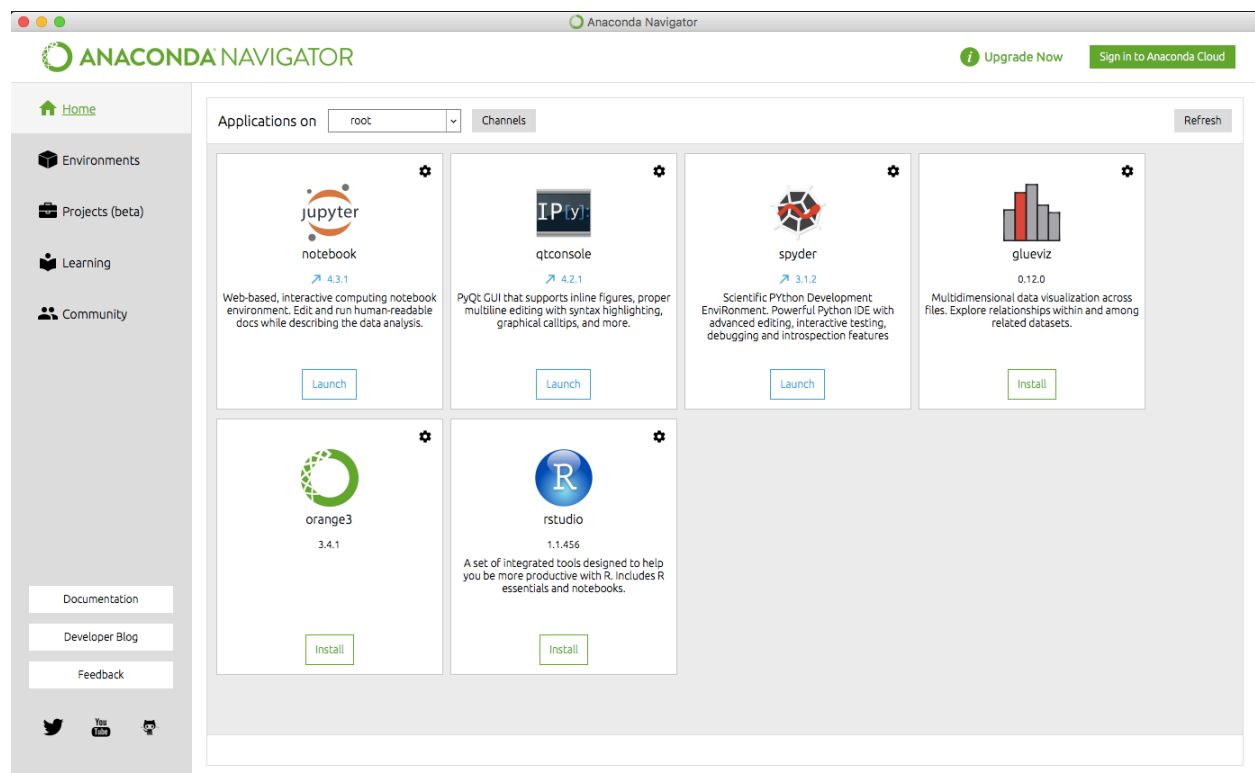
Open a bash terminal and type:

```
conda install jupyter
```

To launch Jupyter notebook, open a bash terminal and type `jupyter notebook`.

## // Tests to make sure your Anaconda Python Installation is Correct

For Mac or Linux, open a bash and type `anaconda-navigator`. For Windows, open the Anaconda Navigator. In either case, this will pull up a user-interface (UI) with multiple tiles. Even if you do not plan to use this UI, you should test this step to make sure your Anaconda installation was successful.



Click "Launch" on the Jupyter notebook tile, it should open in your default browser.