

# Getting Started with Python

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In the programming assignments you will be working with Python and Jupyter Notebooks. This document will guide you through the setup process.

## Setup

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Jupyter Notebooks allow you to run and modify Python code in your browser. Make sure you have a modern browser to run it. Mozilla Firefox, Safari or Google Chrome should work fine. Try to avoid MS Explorer.

## Install Python with Jupyter Notebooks

### Anaconda

The easiest way to install Python with all the required libraries (including the Jupyter Notebook App) consists in installing a scientific python distribution which includes them. We recommend you install [Anaconda](#). Make sure to select the Python 3.8 version, since the assignments will use this version of Python. Check your installation as follows from the command-line:

```
$ which python
/Users/YOUR_USERNAME/anaconda3/bin/python
```

The default python should now point to the version installed by Anaconda.

See [here](#) if you need help with the installation.

### PIP

If you are familiar with Python, feel free to use `pip` instead to install the required packages. We advise you to make use of [virtualenv](#) in this case.

A possibly incomplete list of required packages:

- numpy
- jupyter
- matplotlib
- scipy
- scikit-learn

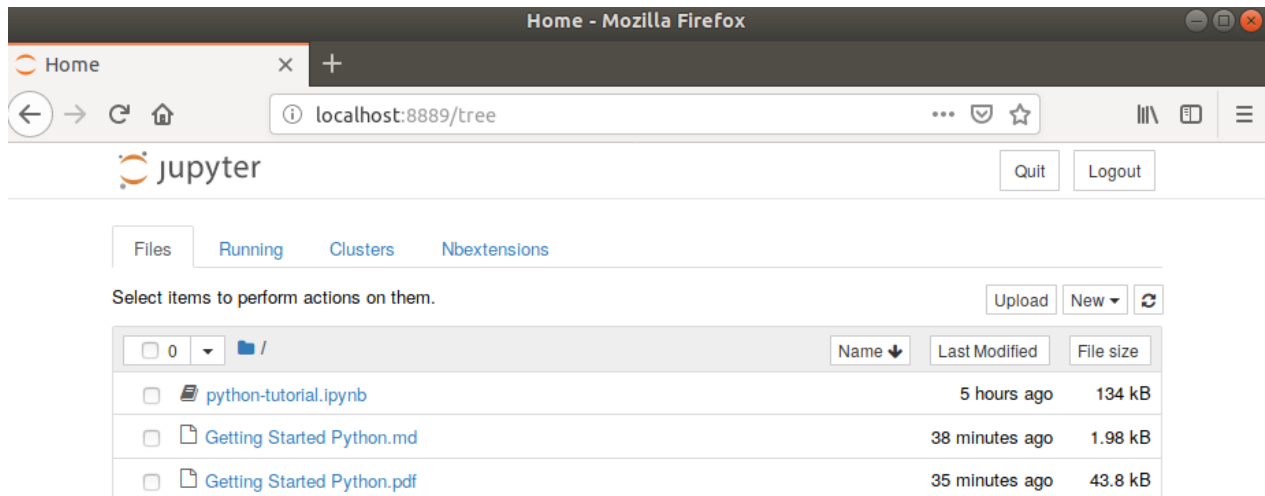
## Start the Jupyter Notebook

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After you successfully installed Anaconda, download the Python tutorial from ILIAS and start it from the command-line like so:

```
cd <folder with python-tutorial.ipynb>
jupyter notebook
```

Open <http://localhost:8888> in your browser and you should see something like the following:



Open **python-tutorial.ipynb** and work through the tutorial.

For more info on Jupyter Notebooks visit [here](#).