

# Installation Guide

## Installation

1. Install Python and Jupyter Notebook
2. Install Anaconda3 (preferred)
3. Install Pandas, Numpy, Matplotlib

(Install either 1 or 2)

### 1. Install Python: Windows

You can download Python for Windows from the website [here](#). Click on the "Latest Python 3 Release - Python x.x.x" link. If your computer is running a **64-bit** version of Windows, download the **Windows x86-64 executable installer**. Otherwise, download the **Windows x86 executable installer**. After downloading the installer, you should run it (double-click on it) and follow the instructions there.

One thing to watch out for: During the installation, you will notice a window marked "Setup". Make sure you tick the "Add Python 3.6 to PATH" or 'Add Python to your environment variables" checkbox and click on "Install Now", as shown here (it may look a bit different if you are installing a different version):



When the installation completes, you may see a dialog box with a link you can follow to learn more about Python or about the version you installed. Close or cancel that dialog -- you'll be learning more in this tutorial.

**Note:** if you are using an older version of Windows (7, Vista, or any older version) and the Python 3.6.x installer fails with an error, you can try either:

1. install all Windows Updates and try to install Python again; or
2. install an [older version of Python](#), e.g., [3.4.6](#).

## Install Python: Linux

It is very likely that you already have Python installed out of the box. To check if you have it installed (and which version it is), open a console and type the following command:

```
command-line  
$ python3 --version  
Python 3.6.1
```

If you have a different version of Python installed, at least 3.4.0 (e.g. 3.6.0), then you don't have to upgrade. If you don't have Python installed, or if you want a newer version, you can install it as follows:

```
command-line  
$ sudo apt install python3
```

## 2. Anaconda Installation:

### System requirements

- 32- or 64-bit computer.
- Minimum 3 GB disk space to download and install.
- Windows, macOS or Linux.
- Python 2.7, 3.4, 3.5 or 3.6.

### Install Anaconda Windows:

1. Download the installer:
  - [Anaconda installer for Windows](#).
2. Double-click the `.exe` file.
3. Follow the instructions on the screen.
4. If you are unsure about any setting, accept the defaults. You can change them later.
5. When the installation is finished, from the **Start** menu, open the Anaconda Prompt.
6. Test your installation.

### Install Anaconda Linux:

1. Download the installer:
  - [Anaconda installer for Linux](#).
2. In your Terminal window, run:
  - `bash Anaconda-latest-Linux-x86_64.sh`
3. Follow the prompts on the installer screens.
4. If you are unsure about any setting, accept the defaults. You can change them later.
5. To make the changes take effect, close and then re-open your Terminal window.
6. Test your installation.

### 3. Install Pandas:

Terminal:

```
conda install pandas
```

### Install Numpy:

Terminal:

```
conda install -c anaconda numpy
```

### Install matplotlib:

Terminal:

```
conda install -c conda-forge matplotlib
```

### Install Jupyter Notebook Linux:

1. Run Jupyter using Anaconda
  - a. Terminal:

```
jupyter notebook
```

**Note:** If you need packages that are available to pip but not conda, then install pip, and then use pip to install those packages:

Terminal:

```
sudo apt-get install python3-pip
```

### 3. Install Pandas:

Terminal:

```
sudo pip3 install pandas
```

### Install Numpy:

Terminal:

```
sudo pip3 install numpy
```

### Reference

1. [https://tutorial.djangogirls.org/en/python\\_installation/](https://tutorial.djangogirls.org/en/python_installation/)
2. <https://conda.io/docs/user-guide/install/windows.html>
3. <https://conda.io/docs/user-guide/install/linux.html>
4. <https://jupyter.readthedocs.io/en/latest/install.html>