

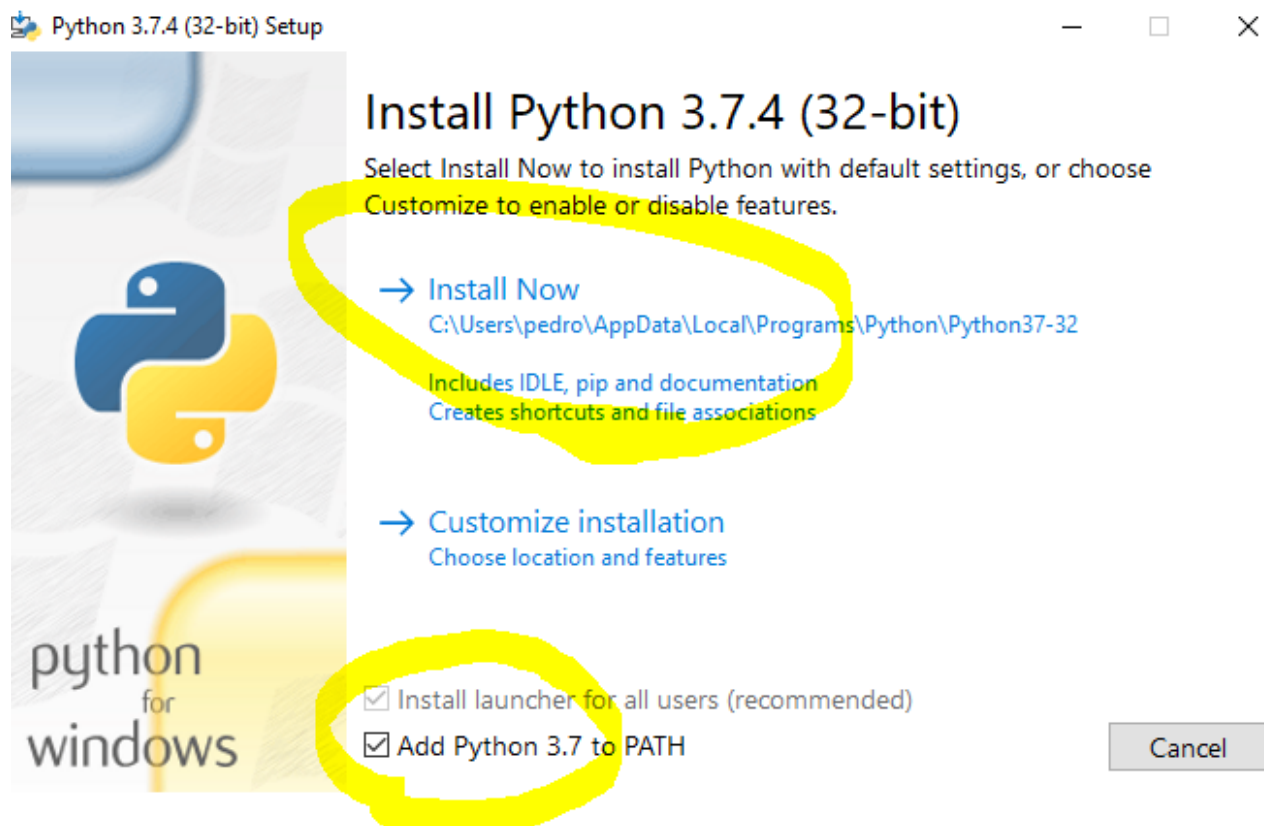
Python Training

October 9, 2019

Installing Python

Raw:

1. Download from python [website](#) (latest python version and 64-bit if your system [allows it](#).)
2. Run the executable file and make sure to select **Install Now** and **Add to PATH** options:



Miniconda:

1. Download from: <https://docs.conda.io/en/latest/miniconda.html> (latest python version and 64-bit if your system [allows it](#).)

2. Search for the **Anaconda Prompt** by typing “miniconda” in the left hand-corner windows search bar.
3. Inside the **Anaconda Prompt**, create a new conda environment with the latest version of python3 (here named **pytraining** but you can call it whatever you want):

```
conda create --name pytraining python=3
```

4. Install required packages for the training (and most data science work) (enter y and press **enter key** when asked to do so):

```
# install a package individually:
conda install numpy

# install multiple packages at once:
conda install pandas jupyter seaborn
```

You can find more information on how to use Conda on its documentation [website](#). Also useful is a conda [cheatsheet](#) for commands you might need to use.

Jupyter Notebook

To install:

```
conda install jupyter

# Or

pip install jupyter
```

To run:

```
# If installed through anaconda or miniconda, activate conda e
nvironment:

source activate env_name
```

```
jupyter notebook
```

```
# If installed with pip, simply through terminal type:  
jupyter notebook
```

To use:

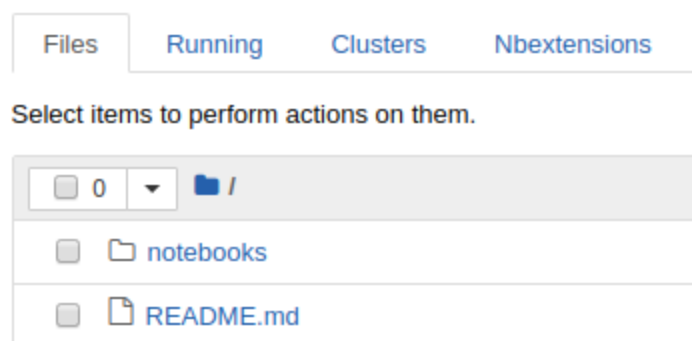
Go to **localhost:8888** on a browser window to access jupyter environment.

If this is **the first time** your are using the notebook it will ask you for a token and password.

You should create that **password**, the token is available on the **terminal** screen.

```
To access the notebook, open this file in a browser:  
file:///C:/Users/pedro/AppData/Roaming/jupyter/runtime/nbserver-13060-open.html  
Or copy and paste one of these URLs:  
http://localhost:8888/?token=128a313b821ac3ce773de306e8eb1850c65f63f861811662  
or http://127.0.0.1:8888/?token=128a313b821ac3ce773de306e8eb1850c65f63f861811662
```

In the jupyter notebook environment **Files** tab, you can explore your system's files as well as both create and remove folders and files.



In the **Running** tab you have access to the currently running Notebooks:


Files
Running
Clusters
Nbextensions


Currently running Jupyter processes


Terminals ▼

There are no terminals running.

Notebooks ▼

 notebooks/python_basics_part1.ipynb

 notebooks/python_basics_part2.ipynb

 notebooks/Untitled.ipynb

The **Clusters** tab is for parallel computing work

The **Nbextesions** tab is for installing interesting add-ons to jupyter notebook such as execution time, table of contents, spellcheckers, etc.

For more information on jupyter notebook extensions you can access their [documentation website](#).

Files
Running
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Nbextensions

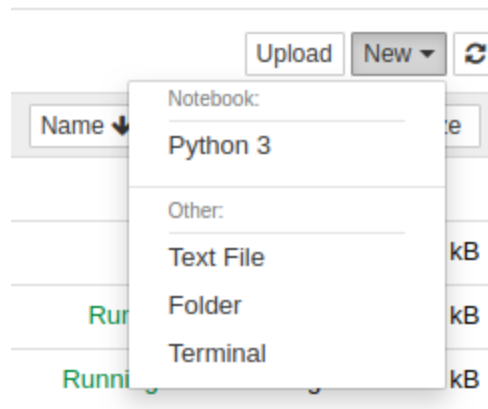
Configurable nbextensions

☐ disable configuration for nbextensions without explicit compatibility (they may break your notebook environment, but can be useful to show for nbextension development)

filter: by description, section, or tags

<input type="checkbox"/> (some) LaTeX environments for Jupyter	<input type="checkbox"/> 2to3 Converter	<input type="checkbox"/> AddBefore	<input type="checkbox"/> Autopep8
<input type="checkbox"/> AutoSaveTime	<input type="checkbox"/> Autoscroll	<input type="checkbox"/> Cell Filter	<input type="checkbox"/> Code Font Size
<input type="checkbox"/> Code prettify	<input type="checkbox"/> Codefolding	<input type="checkbox"/> Codefolding in Editor	<input type="checkbox"/> CodeMirror mode extensions
<input type="checkbox"/> Collapsible Headings	<input type="checkbox"/> Comment/Uncomment Hotkey	<input checked="" type="checkbox"/> contrib_nbextensions_help_item	<input type="checkbox"/> datestamper
<input type="checkbox"/> Equation Auto Numbering	<input checked="" type="checkbox"/> ExecuteTime	<input type="checkbox"/> Execution Dependencies	<input type="checkbox"/> Exercise
<input type="checkbox"/> Exercise2	<input type="checkbox"/> Export Embedded HTML	<input type="checkbox"/> Freeze	<input type="checkbox"/> Gist-it
<input type="checkbox"/> Help panel	<input type="checkbox"/> Hide Header	<input type="checkbox"/> Hide input	<input type="checkbox"/> Hide input all
<input type="checkbox"/> Highlight selected word	<input type="checkbox"/> highlighter	<input type="checkbox"/> Hinterland	<input type="checkbox"/> Initialization cells
<input type="checkbox"/> isort formatter	<input checked="" type="checkbox"/> jupyter-js-widgets/extension	<input checked="" type="checkbox"/> Keyboard shortcut editor	<input type="checkbox"/> Launch QTConsole
<input type="checkbox"/> Limit Output	<input type="checkbox"/> Live Markdown Preview	<input type="checkbox"/> Load TeX macros	<input type="checkbox"/> Move selected cells
<input type="checkbox"/> Navigation-Hotkeys	<input checked="" type="checkbox"/> Nbextensions dashboard tab	<input checked="" type="checkbox"/> Nbextensions edit menu item	<input type="checkbox"/> nbTranslate
<input type="checkbox"/> Notify	<input type="checkbox"/> Printview	<input type="checkbox"/> Python Markdown	<input type="checkbox"/> Rubberband
<input type="checkbox"/> Ruler	<input type="checkbox"/> Ruler in Editor	<input type="checkbox"/> Runtools	<input type="checkbox"/> Scratchpad
<input type="checkbox"/> ScrollDown	<input type="checkbox"/> Select CodeMirror Keymap	<input type="checkbox"/> SKILL Syntax	<input type="checkbox"/> Skip-Traceback
<input type="checkbox"/> Snippets	<input type="checkbox"/> Snippets Menu	<input checked="" type="checkbox"/> spellchecker	<input type="checkbox"/> Split Cells Notebook
<input checked="" type="checkbox"/> Table of Contents (2)	<input type="checkbox"/> table_beautifier	<input type="checkbox"/> Toggle all line numbers	<input type="checkbox"/> Tree Filter
<input type="checkbox"/> Variable Inspector	<input type="checkbox"/> zenmode		

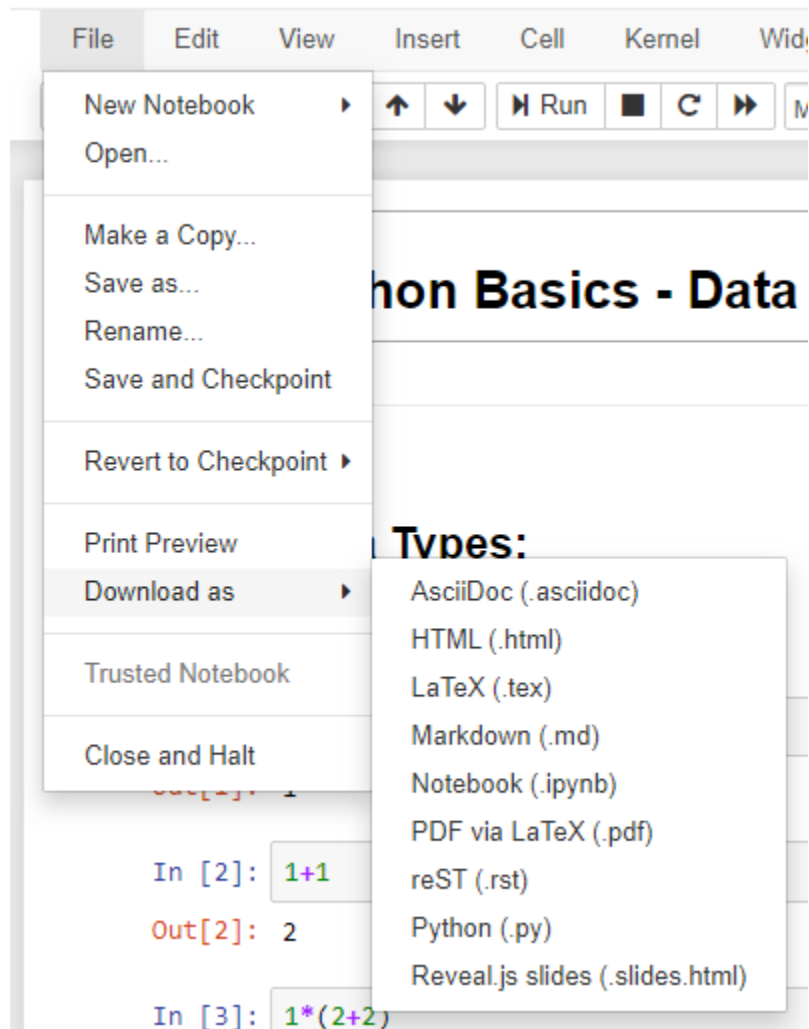
To create a python notebook press on **New** on the top right corner and select **Python 3**.



To save notebook:

The notebook will always save automatically, regardless you can still do it manually using **ctrl + s** or the floppy disk icon.

You can also save the notebook in multiple other formats for presentation purposes (**.html** or **.pdf** formats), or to facilitate outputting it to a script (**.py**)



!Useful Resources!

Link to [Tutorial](#)

Link to [useful shortcuts](#)