Installing Python on Ubuntu 18.04

1. Check Current Python Version
   python3 -V
2. Install Python through apt-get (if you do not have installed)
   1. ***sudo apt-get update***
   2. ***sudo apt-get install python3***
3. Upgrading existing version
   sudo apt-get upgrade python3

Installing Python Virtual Environment on Ubuntu 18.04

A virtual environment is a tool that helps to keep dependencies required by different projects separate by creating isolated python virtual environments for them. This is one of the most important tools that most of the Python developers use.

1. ***sudo apt-get install build-essential libssl-dev libffi-dev python-dev***
2. ***sudo apt-get update***
3. ***sudo apt install python3-pip***
4. ***sudo apt install -y python3-venv***
5. Now we will create a folder for your Python virtual environments where you can create your stand-alone virtual environments. You can use the following syntax to create your own working directory:
   mkdir "environment_directory - CHANGE TO YOUR PREFERRED"
   AND / OR MOVE TO ALREADY CREATED
   cd "environment_directory"
6. ***python3 -m venv "environment_name - CHANGE TO YOUR PREFERRED"***
7. ***source "environment_name"/bin/activate***

For more details please visit:
https://vitux.com/install-python3-on-ubuntu-and-set-up-a-virtual-programming-environment/

Installing Python on Windows

1. Install ***anaconda*** for you machine using the link below:
   https://www.anaconda.com/distribution/#windows
   (when installing .exe file it will ask to add the ***"conda"*** path to your system paths, please allow it with filling in checkbox, this will allow you to use conda from your cmd as a command)
   In case of issues please see the link below:
   https://stackoverflow.com/questions/28612500/why-anaconda-does-not-recognize-conda-command/44575773

Installing Python Virtual Environment on Windows using *conda*

A virtual environment is a tool that helps to keep dependencies required by different projects separate by creating isolated python virtual environments for them. This is one of the most important tools that most of the Python developers use.

1. Go to the directory, where you want to create a virtual environment (typically it should be the directory, where your project is located)
2. *In the terminal or powershell type:*
   conda create -n "environment_name - CHANGE TO YOUR PREFERRED" python=x.x anaconda
   x.x should be your python version (3.6 or 3.7)
3. To activate virtualenv type:
   source activate environment_name
4. To install package type:
   conda install -n environment_name [package]
5. To deactivate virtualenv:
   source deactivate

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Installing PyCharm on Ubuntu 18.04

1. ***sudo snap install pycharm-community --classic***

Installing PyCharm on Windows

1. ***https://www.jetbrains.com/pycharm/download/#section=windows***