Python – An easy to learn interpreter based high-end scripting language

Python 2.x – Legacy and no further development but has life-time support

Python 3.x – current and Feature of the language

**Why 2 versions?**

Creator of python (Guido van Rossum) thought of cleaning up python (Like every developer, after few years they wish to rewrite their framework/program with current updated skill set and make it as Art) and he did that too.

**Which one to use Python 2 or 3?**

It depends, still lot of tools, operating systems supports python 2 and it is safe to use it and python 3 is a feature so there no regret in using that as well.

The best approach would be take any one of the as primary supported and try to write a code which is suitable to other version too. For example, if you take python 3.x as your primary language, try to use the syntax and methods which is also supported in python 2. If any critical situation, give priority to primary supported language.

**Platform Windows or Linux or Mac?**

Python supports all and why to restrict so it’s better to write a code which is compatible with all the platforms.

**IDEs**

There are 1000’s of IDEs out there which supports python and we will see few of them here.

1. VS Code
2. Pycharm
3. Eclipse with PyDev
4. Notepad++ etc.

It’s depending on your choice. I would prefer VS Code or Pycharm.

**Installation of Python**

It is always suggested to use latest version of python and you can have multiple versions of python in your machine. I would suggest to install both Python 2.7.x and python 3.x.x versions and make sure you installing in right path.

My choice would be For Python 2.7.x, it will be C:\Python27 and for Python 3.x.x, it will be C:\Python3x

**What is source control?**

When you work with a team, keeping source code and maintain them in a single common place is more important. There are many tools to do that, starting from MS Visual source, CVS, SVN to today’s leading GIT and Mercury.

GIT Would be the choice of most of the companies but you have to get familiar with what used in your company.

**Let’s talk a little about GIT and GIT Hub**

GIT is a revision control system (Source code management system or Configuration management system – lot of names ☺ ) just a tool which smartly maintain and merge source code and maintain histories. Also helps to avoid confusions when multiple developer works on the same source code.

GIT Hub just a host service which provides free and commercial services to host your projects online. It uses git as its revision control system.

GIT is a big topic, which we can cover based on need and while using it. Let’s go back to Python and environment setup.

**Setting up Environment**

As VS Code is light weight one, let’s start with that,

* Download and install VS code from <https://code.visualstudio.com/>
* Download and install Python 2.7 latest from <https://www.python.org/downloads/> [Make sure you select the installation path.]
* Download and install Python 3.6 latest from <https://www.python.org/downloads/> [Make sure you select the installation path.]
* Download and install GIT from <https://git-scm.com/download> based on your platform

I will walk through basic steps of how to use GIT with VS Code but refereeing below links would give you some idea

<https://code.visualstudio.com/docs/editor/versioncontrol>

We are almost done, just one more thing, cloning GIT Hub project