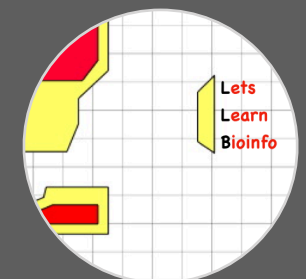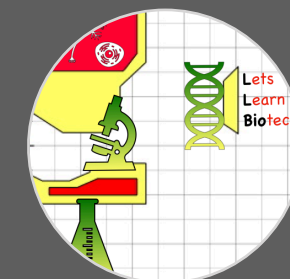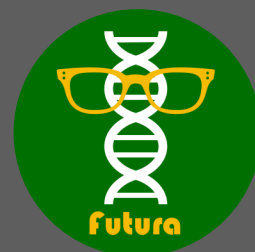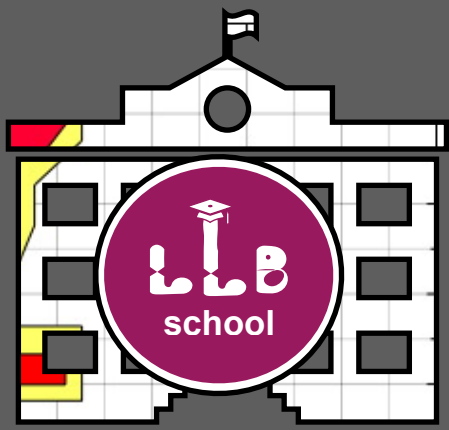**Bringing together Bio/IT scientists of today &**

Introduction to Python

Mr. BalaYogi & Mr. Pranav

Important requests for participants

- Kindly switch of your webcam for better buffering

- You are in mute mode

- You could drop your questions either via chat box or 'raise hand' option

- Kindly use your original name for any discussion

- Try your best not to leave the meeting before it ends
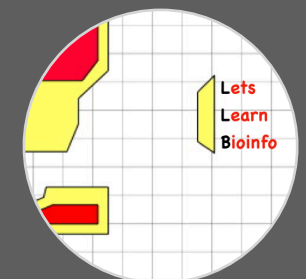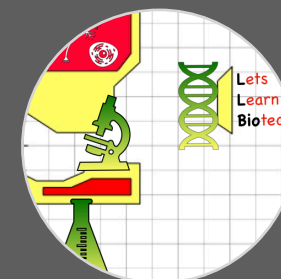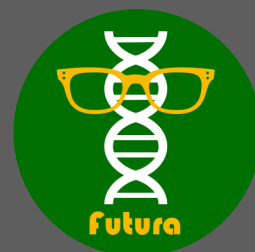
- Don't forget to send your feedback via our telegram channels

All the lectures of LLB-SCHOOL will be available soon in our telegram and youtube channel called LLB-Scientifically

Introduction to

Python

Session – I

16th, May, 2020 – 2:30PM

Instructor: Mr. Balayogi G
Course updates & discussion: https://t.me/LetsLearnProgramming
LLBioinfo: https://tinyurl.com/LLBioinfo
LLBiotech: https://tinyurl.com/LLBiotech

LLB
school

Bringing together Bio/IT scientists of today & tomorrow

Agenda

- What is Programming?

- Introduction to Python

- Syntax & Semantics: Data Structures - Statements

- Demonstration

What is Programming?

- Steps to solve a problem

- Computers' Languages

- Programming=Problem solving

Everybody in this country should learn to program a computer, because it teaches you how to think

- Steve Jobs -
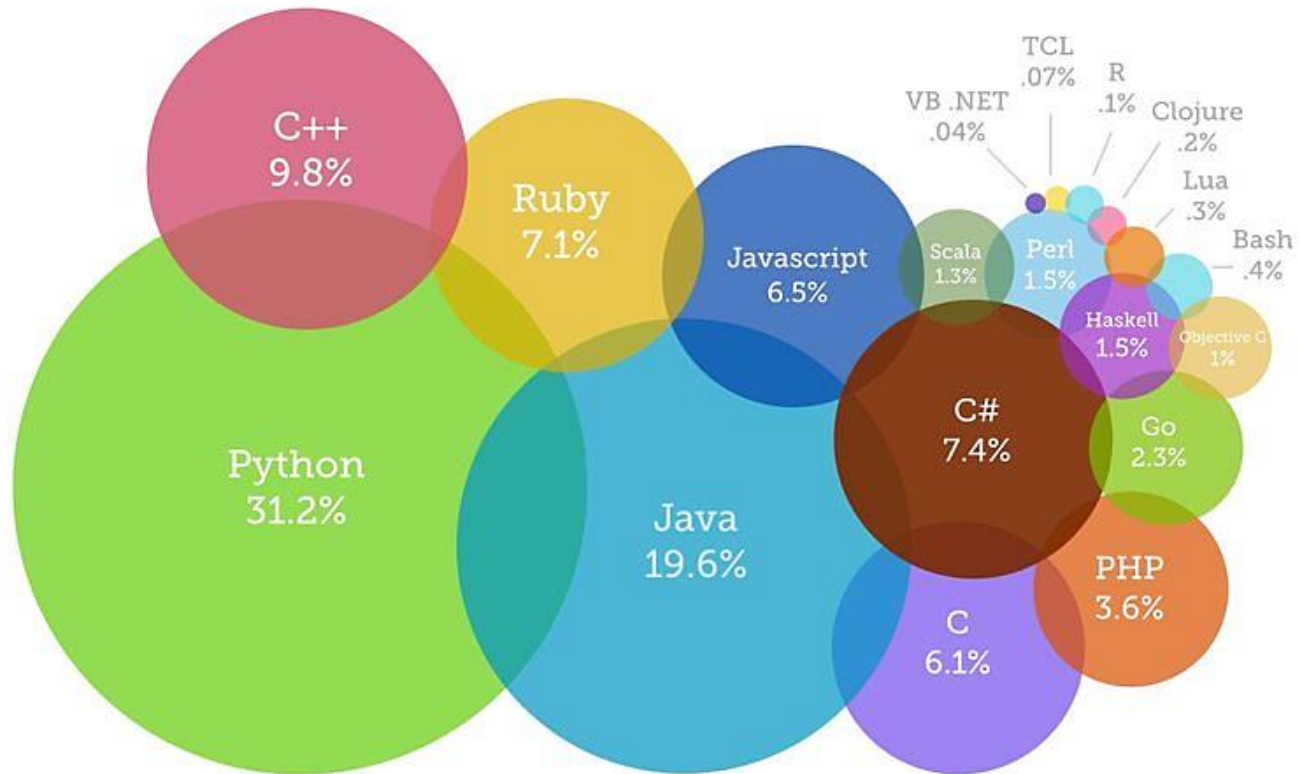
Steps to become a Programmer

1 Choose One Programming Language to Master

2 Read About Basics & Core Concepts

3 Read, Write and Run

4 Try to solve small issues using codes

5 Participate in online Discussions, quizzes, And contests

6 Be a part of the Programmer's community

7 Share Your Problems and Methods

THE MASTER
HAS FAILED
MORE TIMES THAN
THE BEGINNER
HAS EVEN TRIED
. . .
Stephen McCranie

Programming languages

Python Vs R
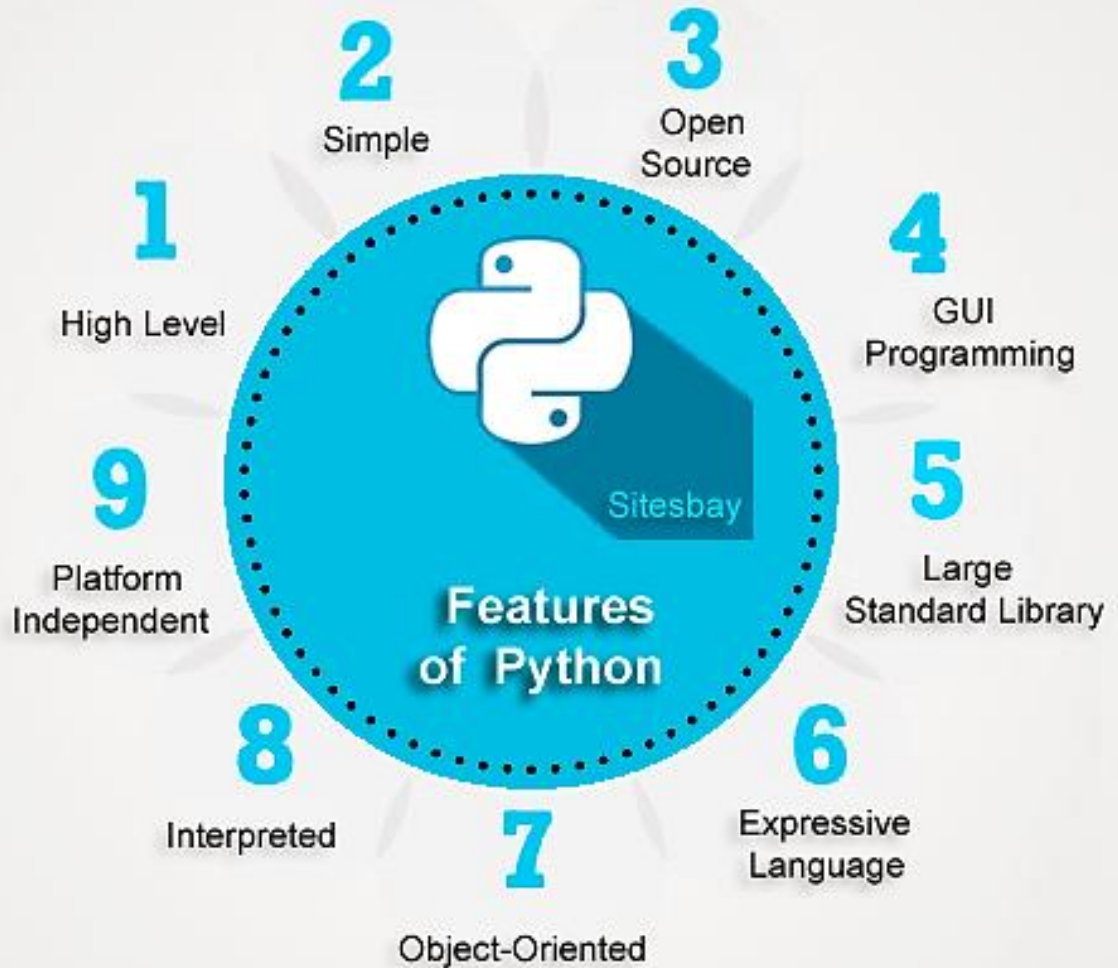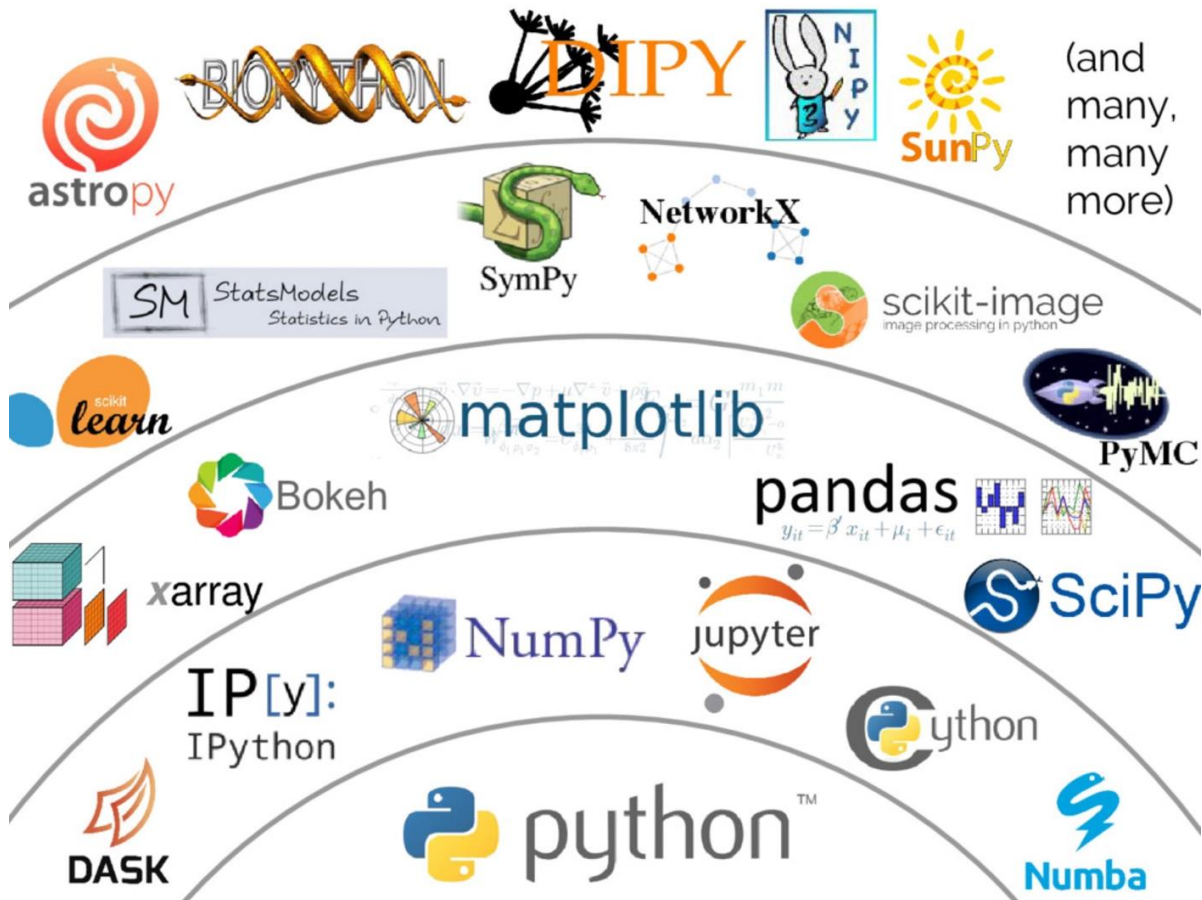

Google Trends: https://trends.google.com/

Python Vs R

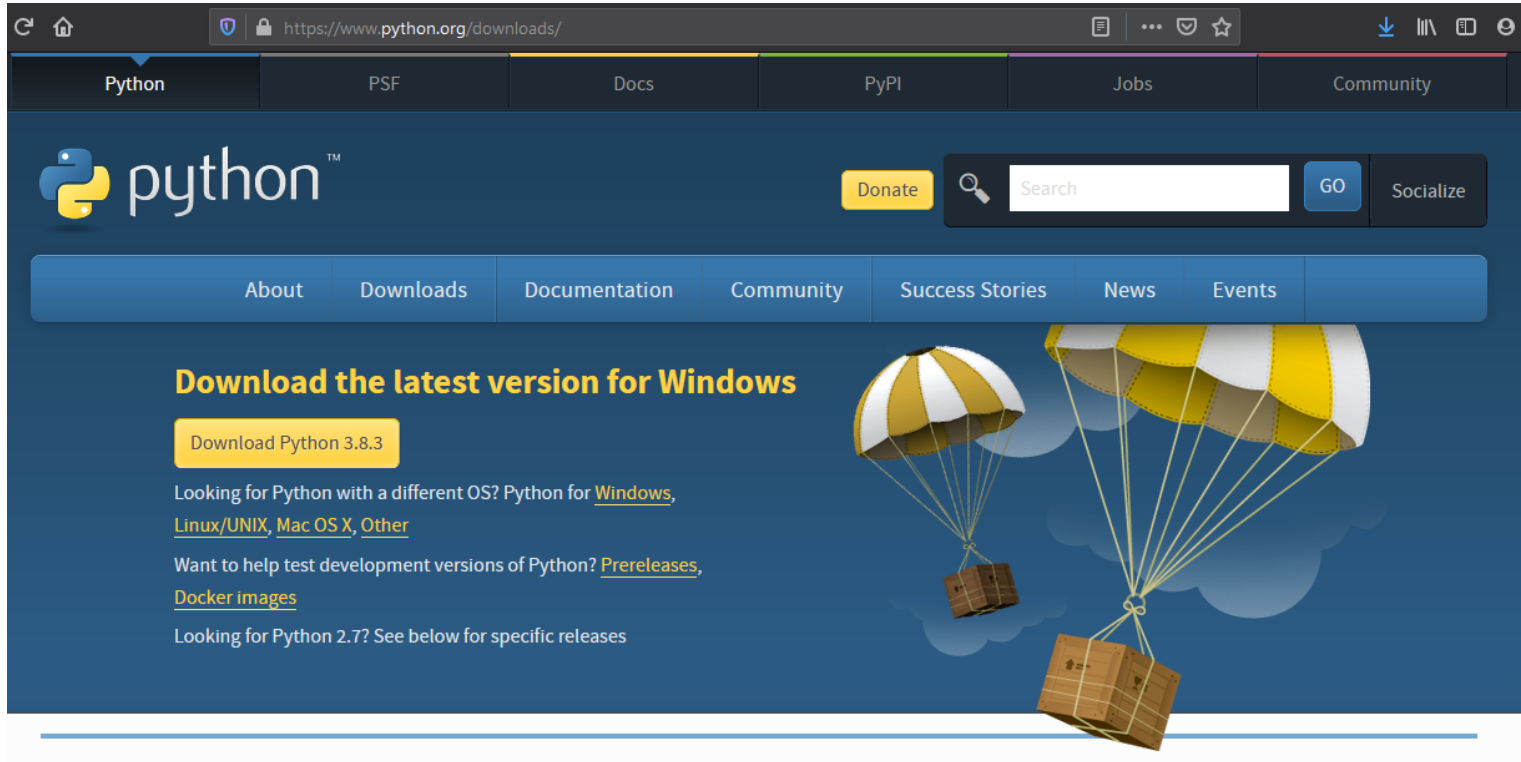| Parameter	R	Python
Objective	Data Analysis and Statistical Modeling	Data Science, Web Development, Embedded Systems
Workability	Consists of many easy to use packages	Can easily perform matrix computation as well as optimization
Integration	Locally Run Programs	Programs integrated with web-app for easy deployment
Database Handling Capacity	Poses problem for handling large dataset	Can handle large data easily without any fault
IDE	Rstudio, R GUI	Spyder, IPython, Jupyter Notebook
Essential Packages and library	ggplot2, tidyverse, caret	Numpy, pandas, scipy, scikit-learn, TensorFlow

Why Python?

Features of Python

1 High Level
2 Simple
3 Open Source
4 GUI Programming
5 Large Standard Library
6 Expressive Language
7 Object-Oriented
8 Interpreted
9 Platform Independent

Sitesbay

Packages

- Python Package Index (PyPI)

- 1,836,409 releases

Where to get Python

https://www.python.org/downloads/

Python version

Demonstration

- Open cmd
- pip install jupyter
- Type "jupyter notebook" in cmd to start notebook