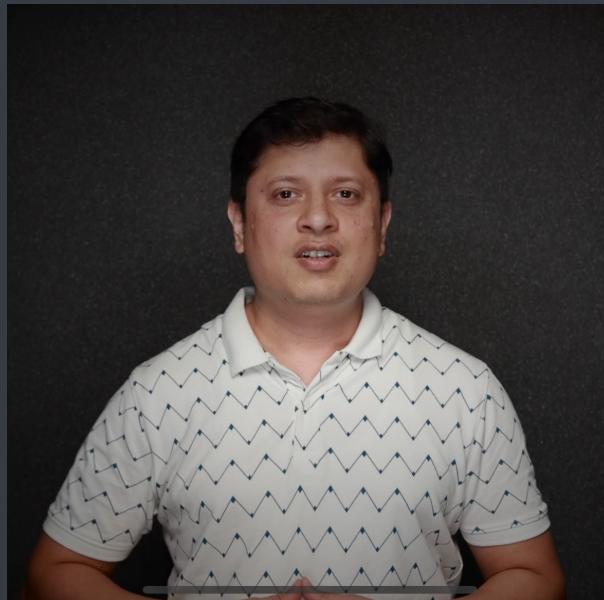


Full stack web development using python

Introduction to python



Saurabh Shukla (MySirG)

Agenda

- ① History of Python
- ② Version History of Python
- ③ Why you should learn Python?
- ④ Features of Python
- ⑤ Amazing facts
- ⑥ Where Python can be used?
- ⑦ Installation, IDLE, vs code
- ⑧ Run your first python script.
- ⑨ Learning Path

History of Python

- Python was conceived in the late 1980s by Guido van Rossum at Centrum Wiskunde & Informatica in the Netherlands as a successor of the ABC language.



Guido Van Rossum

- He has been invariably worked as the lead developer, until 12 July 2018.
- In Jan 2019, active Python core developers elected a five member council to lead the project.

Version History

- Python 1.0 1994
- Python 2.0 2000
- Python 3.0 2008

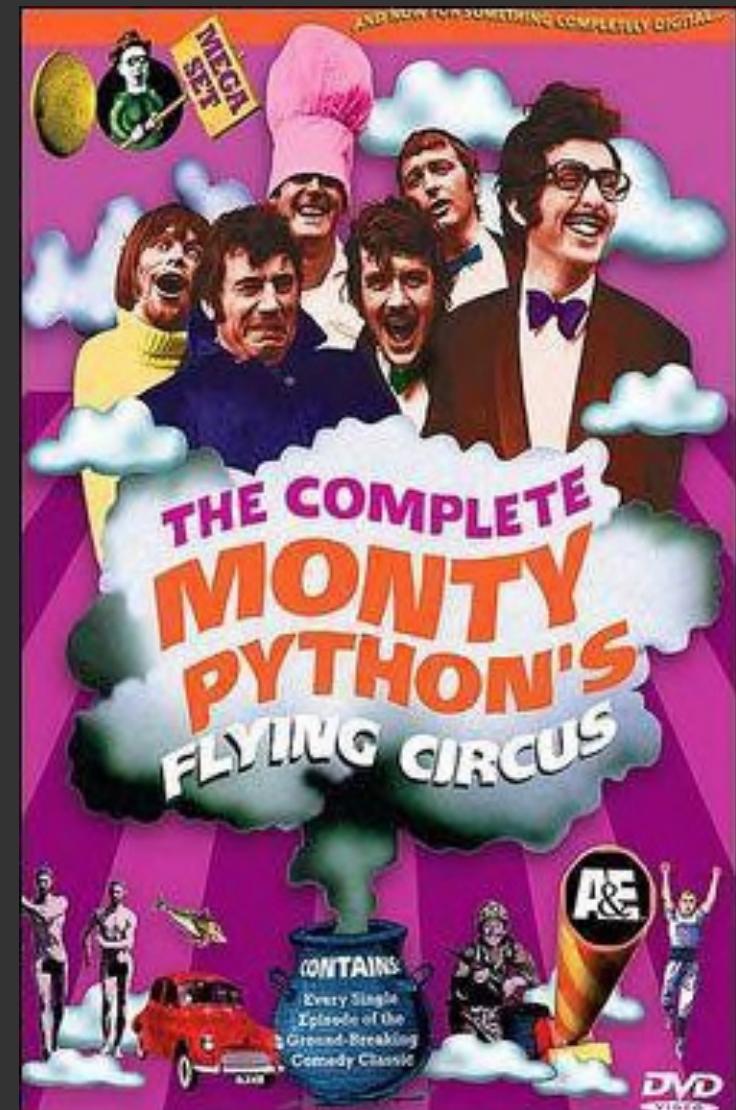
Latest version

Python 3.10.6 2 Aug 2022

Name - Python

Python developers aim for it to be fun to use.

The name 'Python' is a tribute to the British comedy group Monty Python



Why you should learn Python?

- Huge Community Support
- Future is with AI
- Easy to learn and implement
- General purpose programming language

Features of Python

- Highly Extensible
- . Simple and straight forward syntax
- . Multi paradigm programming language
- . Emphasis on code readability
- . Dynamic Typing
- . Automatic memory management
- . Dynamic Binding
- . Precise coding
- . For time critical operations, Python can use modules written in C Language.
- . Indentation base block of code.
- . Large library
- . Platform independent

Amazing Facts

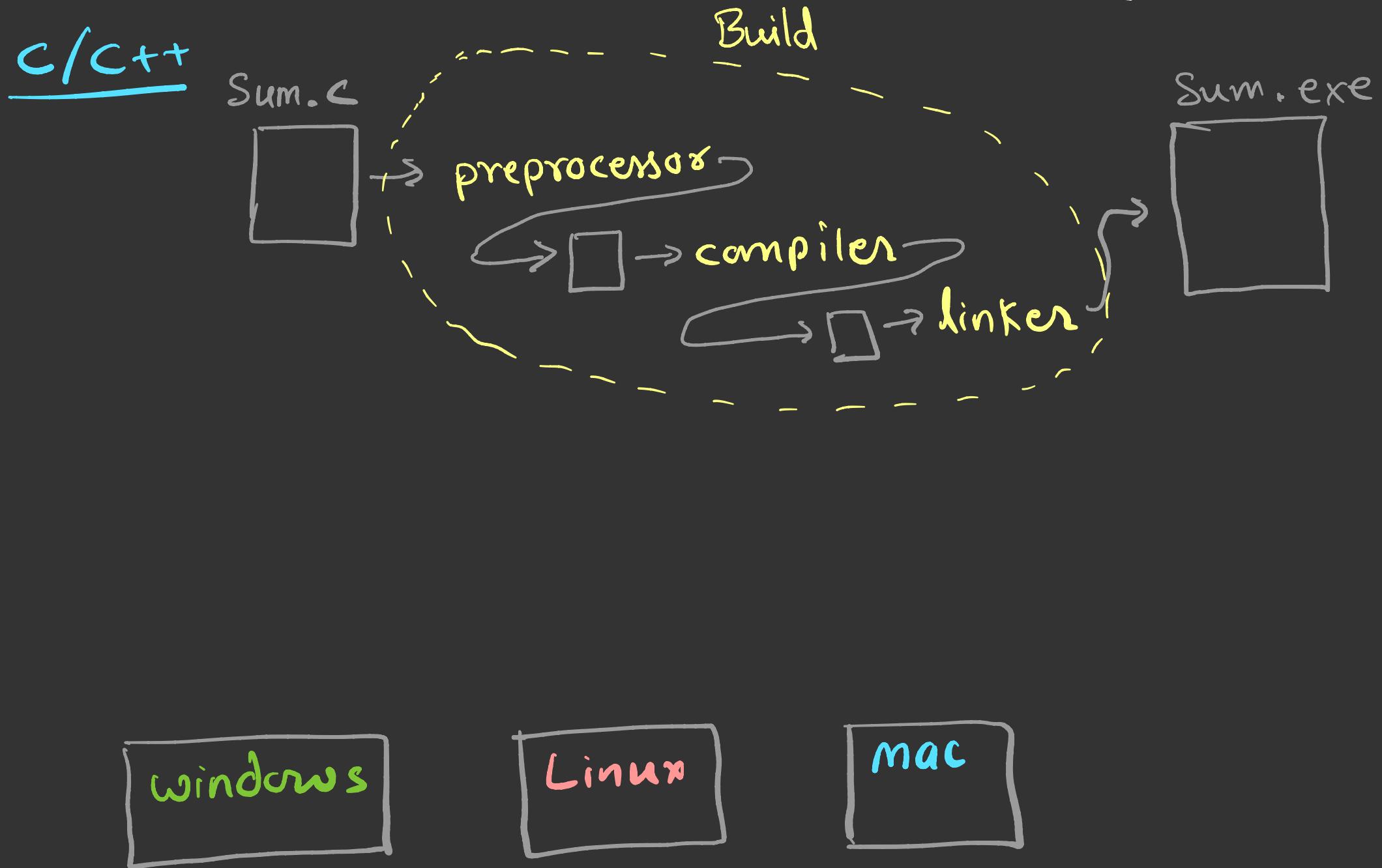
- Ranked #1 (TIOBE)
- Highest rise in rating 2007, 2010, 2018, 2020
- It reduces app development time by $1/6$
- Large organizations that uses Python are Google, Netflix, Dropbox, YouTube, Instagram, CERN, Microsoft, NASA, Amazon, Facebook, Mozilla, etc.

Where Python can be used?

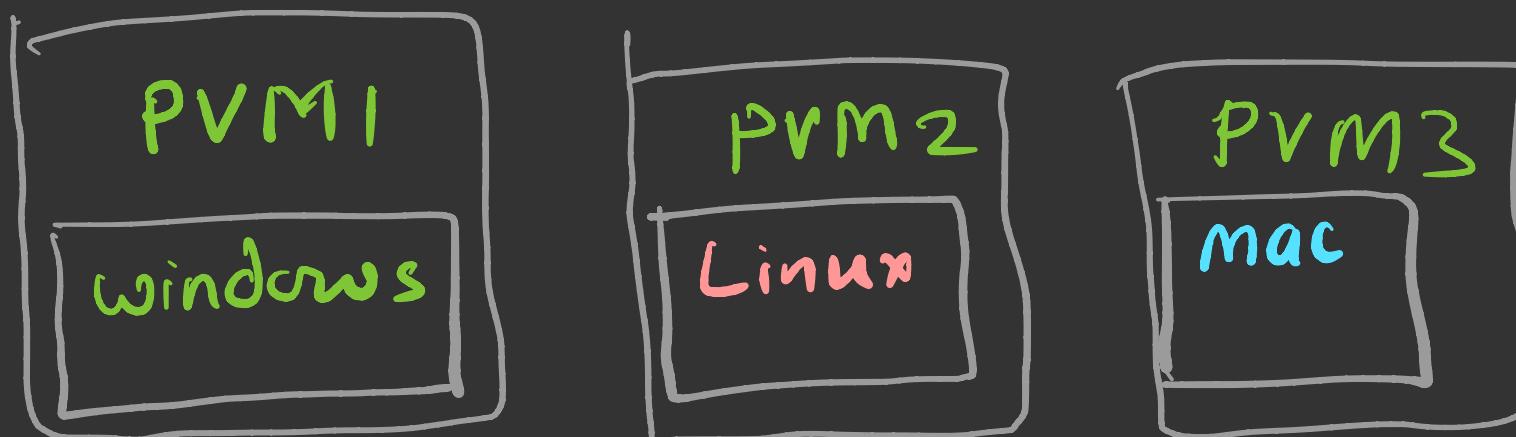
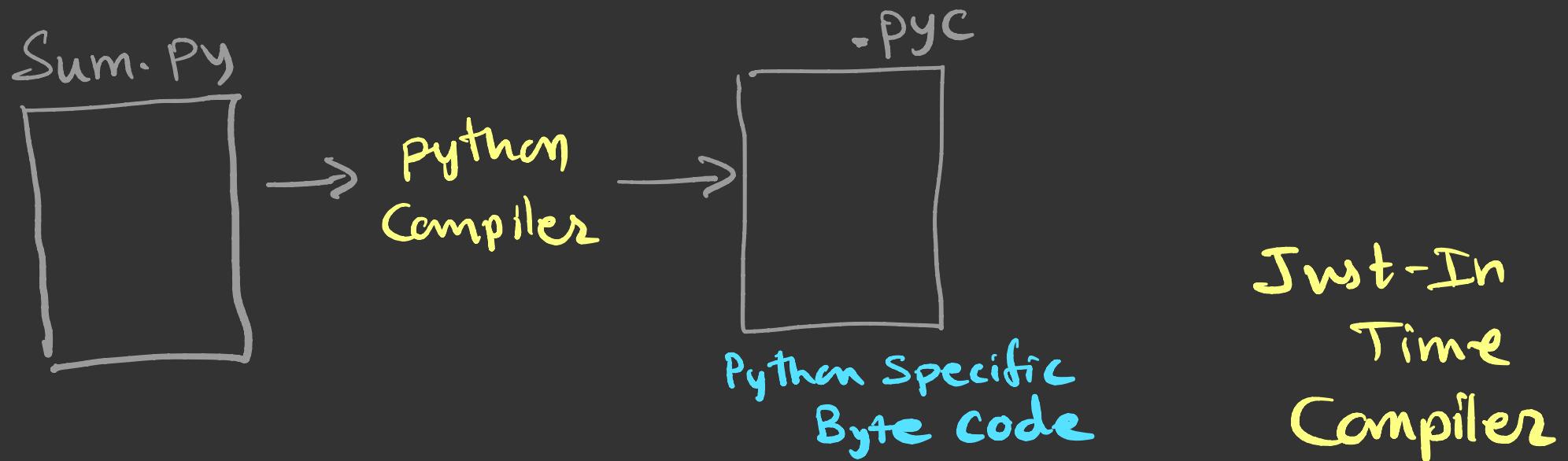
- Developing websites
- Task automation
- Data Analysis
- Data visualization
- AI , ML , IOT
- Developing desktop applications.

Python can also be used in developing mobile applications, client side of AJAX based applications.

How to develop applications using C/C++?



How to develop a software using Python?



Installation , IDLE , VS - Code

- Download and install Python from <https://www.python.org/downloads>
- IDLE : Integrated Development and learning Environment.
- VS - Code : Code - Editor

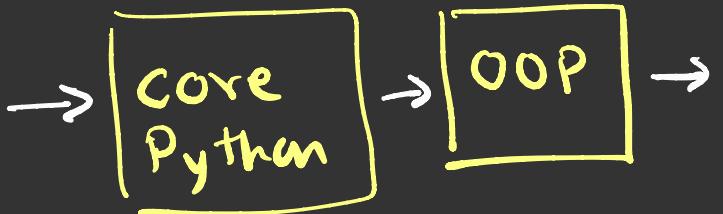
Run your first Program

First.py

```
print ("Enter two numbers")
a= int ( input())
b= int ( input())
c=a+b
print ("Sum is", c)
```

Learning Path

Absolute Beginner



Learn by doing Projects

- Develop console app using some DB.
- Develop gui app
- Develop web application
- Develop ML based app
- Learn DevOps