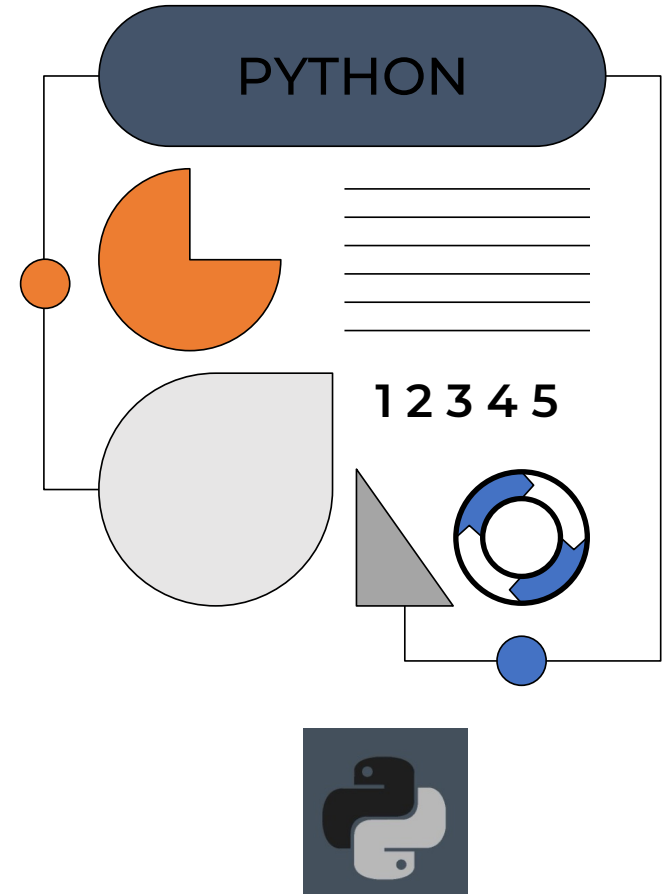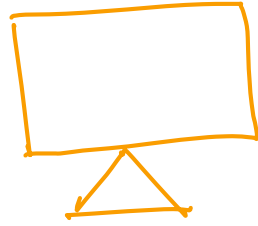# PYTHON INTRODUCTION

Mayank Aggarwal

What all we will cover

- Necessity Of Programming

- An Introduction to Python

- What Is Python ?

- Why And Who Created It ?

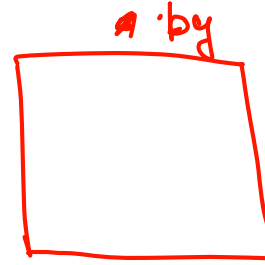- What Python Can Do ?

- Important Features

Once all is done, you will understand why **you should learn python in today's world.**

Why Do We Need Programming ?

○ To communicate with digital machines and make them work according to our needs.

○ Today in the programming world , we have more than 800 languages available.

○ And every language is designed to fulfill a particular kind of requirement

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Translator

Brief History Of Programing Language

o   **C language** was primarily designed to develop "System Software" like Operating Systems, Device Drivers etc.

o   To remove security problems with "C" language , C++ language was designed.

o   It is an Object Oriented Language which provides data security and can be used to solve real world problems.

o   Many popular softwares like Adobe Acrobat , Winamp Media Player, Internet Explorer, Mozilla Firefox etc. were designed in C++

o   What from Java or Python you feel is older ?

What is Python ?

o   Python is a **general purpose** and **powerful** programming language.

o   It is free and open-source.

o   Python is considered as one of the **most versatile programming language** as it can be used to develop almost any kind of application including **desktop application**, **web applications**, **CAD** ,**Image processing** and many more.

Who created Python ?

o   Developed by **Guido van Rossum** , a Dutch scientist

o   Created at **Center For Mathematics and Research** , Netherland

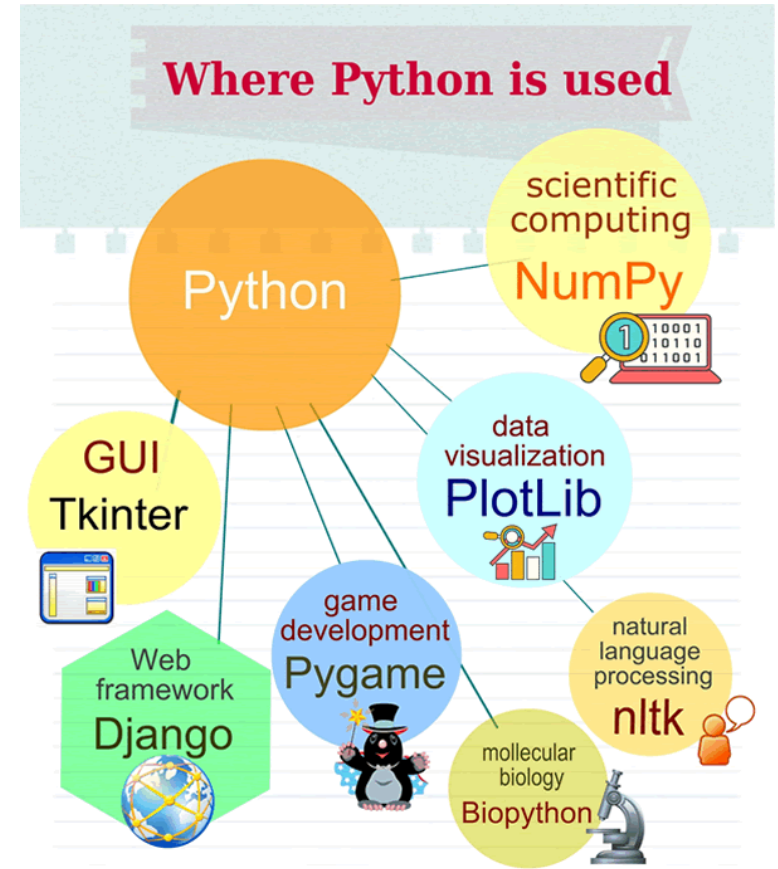o   It is inspired by another programming language called **ABC**

Why was Python created ?

o **Guido** started Python development as a hobby in 1989

o But since then it has grown to become one of the most polished languages of the computing world.

What Python can do ?

- **GUI Application**

- **Web Application**

- **Data Analysis**

- **Machine Learning**

- **Raspberry Pi**

- **Game Development**

Why should you learn Python ?

- Most popular programming

- Opens lots of doors

- Big corporates prefer Python

- Means **, PYTHON IS THE FUTURE**

Features Of Python

o   Simple

o   Dynamically Typed

o   Robust

o   Supports multiple programming paradigms

o   Compiled as well as Interpreted

o   Cross Platform

o   Extensible

o   Embedded

o   Extensive Library

$a = 5$

$a = \text{"python"}$

functional   OOPS