IEEE Python Course

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What is python ?

Python is language

High level

Interpreted

Object oriented

Dynamically typed

High Level:

More like a natural(human) language.

Sometimes, actual code looks like a pseudo code!

Interpreted:

Python has an interpreter not a compiler.

Interpreter reads the program line by line where compiler translates the whole program first before running.

Object oriented:

It gives structure to the program. Enhances readability of code.

Dynamically typed:

It is not about typing the code! Interpreter checks the data types on the go.

Makes it developer friendly.

Motivation

- Python, the fastest-growing major programming language, has risen in the ranks of programming languages in our survey yet again, edging out Java this year and standing as the second most loved language (behind Rust).

Pros:

- Easy to learn

- One of the best programmer community

- Great for prototypes

- Libraries for everything

Cons:

- It's bit slower than C++ & JAVA

- Not native to mobile

Types of Python Development Environment
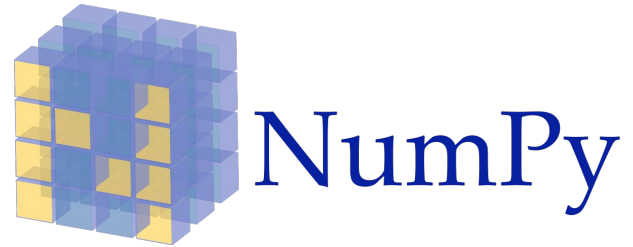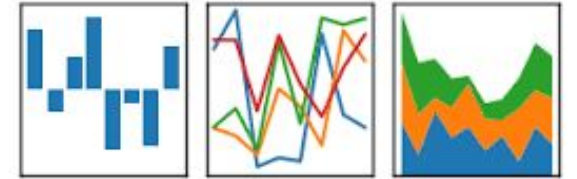
You can use it for...

Web Development

django

Pylons™

Flask

Data Science and Visualization

Machine learning

Desktop applications

Mobile applications

PEP 8

- PEP Stands for **Python Enhancement Proposal.**
- Python maintains a strict way of order and format of scripting. This sometimes mandatory and is a great help on the user's end, to understand.

EAT

SLEEP

CODE

REPEAT