

M1.1.b: Why Python... Its Features

Features of Python

1. Easy-to-learn
2. Easy-to-read
3. Easy -to-maintain
4. Interpreted Language
5. Dynamic Programming Language
6. OOP's driven Language
7. Large set of library
8. Interactive
9. Portable
10. Extendable
11. GUI Programming
12. Scalable
13. Good Language for Beginners
14. Support large Community

Easy to learn, read and maintain:

- Python has very close resemblance to English Language, it enhance its readability.
- Python has few keywords, simple structure, and a clearly defined syntax. This allows the student to pick up the language quickly.
- Python code is more clearly defined and visible to the eyes, so it is an expressive language.
- Python's source code is fairly easy-to-maintain.

Interpreted:

- It is processed at runtime by the interpreter. You do not need to compile your program before executing it.

Interactive:

- You can actually sit at a python prompt and interact with the interpreter directly to write our programs.

Dynamic Programming Language:

- Strongly typed language
- No variable declaration is required.
- Indentation based syntax is used for block level statements.

Object-Oriented:

- It support functional approach and everything considered as Class's and Objects that encapsulates code within objects.

Open Source:

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- You can get it for free or we can say that it's source code is open to all.

Portable:

- You can move python programs from one platform to another, and run it without changes. Platforms includes Windows, Mac OS, Linux.

Extendable:

- You can add low-level modules to the python interpreter .These modules enable programmers to add or customize their tools to be more efficient.

Scalable:

- Python provides better structure and support for large programs than shell scripting.

GUI Programming:

- It support GUI based Desktop applications using **Tkinter**.

Large set of Libraries:

- Built-in libraries makes life of a programmer much easier since you don't have to write all the code yourself.

Community:

- It has User Groups everywhere, and they conduct conferences, seminars and Workshops.

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