

Introduction to Python

Baboo J. Cui

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1 Quick Start

This is an easy part, let's go through these problems!

1. What is Python?

a programming language

2. Who create it?

Guido van Rossum

3. Any other programming language?

like C, C++, java, javascript(almost nothing to do with java), php, matlab, etc. There are about 600 languages, their popularity can be checked on TIOBE(The Importance Of Being Earnest, emphasize sincere and professional attitude) programming community index

4. What kind of programming language Python is?

- advance language: more abstract, less efficient, easier(relative)
- dynamic(vs static) language: all are determined during execution, structure and type are mutable
- interpreting(vs compiling) language: execute by interpreter during run-time

5. Which version to use?

Just use Python 3, it has clear standard and repeated codes are removed

6. Advantages of Python?

- elegant, clear, simple
- wildly used in companies: Douban, Google, YouTube, etc
- cover many scenarios: backup, back-end, web service, widgets, script, game
- relatively easy for developer(less code)

7. Disadvantages of Python?

- relatively slow: cannot be used for OS level, real-time processing(some cases)
- restriction for some areas: iOS, Android, etc
- code exposition(may be advantage)

8. What makes Python easy and fast for development?

mainly because the built-in and third-part library

9. What "run" Python code?

Python interpreter. It's a software written by other language(official default: CPython, may be other)

10. What is operating system?

software that connects the hardware and application

2 Who to Take?

Hopefully everybody!