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A quick intro: Python

Python is an interpreted, interactive, object-oriented high-level programming language.



A quick intro: Python

A programming language that is:

Simple to use

Simple to learn

Powerful For anything,

Portable at anywhere

Open source

Easily readable code

Not very efficient => rather slow



How slow is python? (especially for number crunching)

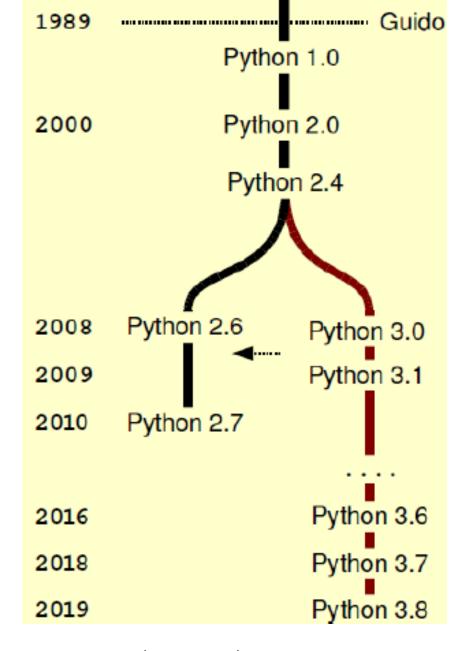




Python history

Python 3 is not compatible with Python 2.

The official support for Python 2 ended in January 2020.





Create by Guido van Rossum

What can Python do?

Guess?



What can Python do?

Network engineering & management

Scientific computing

Machine learning & Al

Web app development

Web scraping

IoT

Data analytics

Games Development

Database

Cloud Services



Tools

- General CLI on your machine
- IDLE comes with the official python package
- Text editor
- Jupyter Lab/notebook ← → Google CoLab(online alternative)
- PyCharm
- VS Code
- •



Demos



Hello World

Let's start using Python!

First of all: the print() function/method

Let's print "Hello World" using Python!



Hello World



Wrap-up

During this lecture we have seen:

- 1. What's Python
- 2. Python version
- 3. What does Python do
- 4. The print() method, how to use it
- 5. How to look for help in Python



Wrap-up

- Make sure you have Python, IDLE ready.
- Play with CLI, create and run your first Python scripts
- Study chapter 1 and 2 of "The Coder's Apprentice".
- Something extra: Chapter 1 of "ThinkPython".
- Practice as much as possible.

