

Python



Python is an interpreted high-level programming language.

C

C++ ✓

Java ✓

Php ✓

Ruby ✓

Python ✓

- ✓ Programming Language & Scripting Language
- ✓ Interpreted Language -> Interpreter -> Easy & User Friendly
- ✓ OOPs (Object Oriented Programming)
- ✓ High Level Language
- ✓ Support Cross Platform
- ✓ Open Source PL

Windows 10

8GB

i7 9th

1. Free to use

2. Source code should be available



Whatsapp

Guida Van Rossum

ABC Programming Language

Python

Data structure

Dec 1989

Feb 1991

Python 0.9.0

Python 1.0 - 1994

Map

Lambda

Filter

Python 2.0 Garbage
Collection

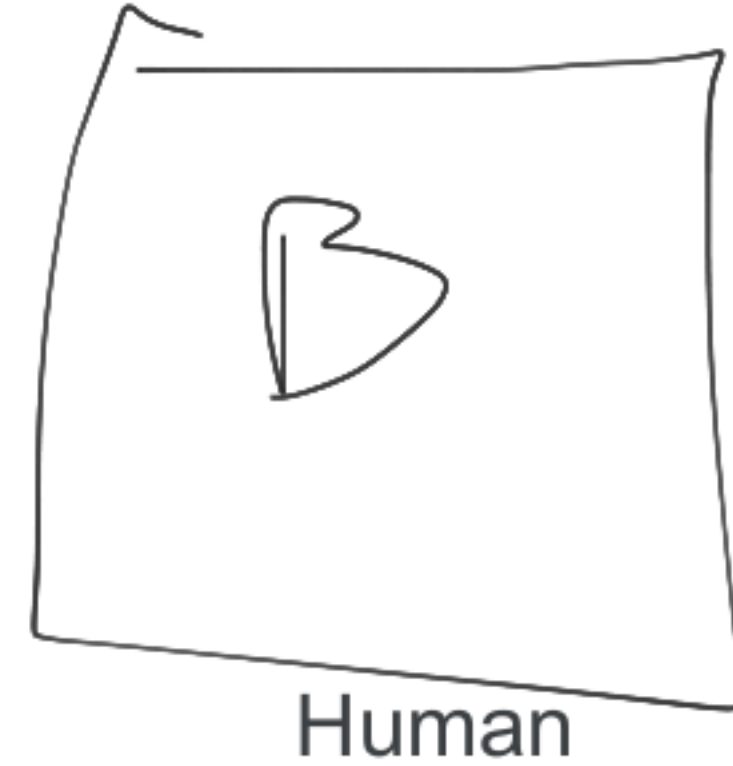
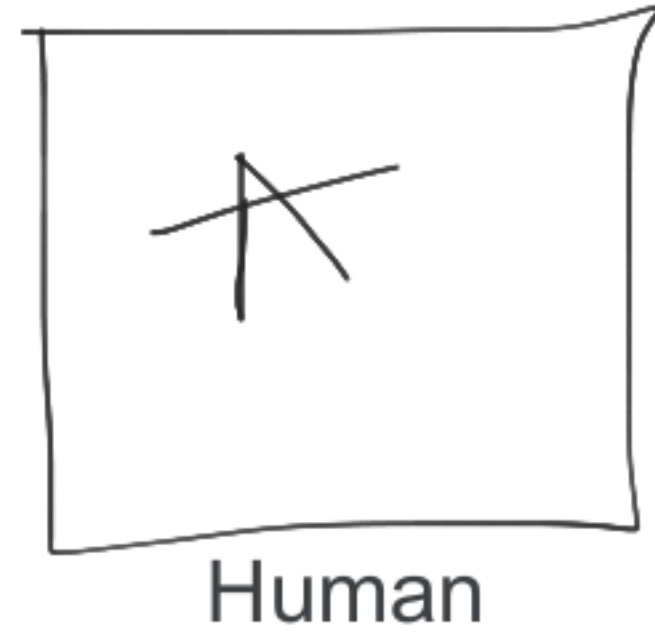
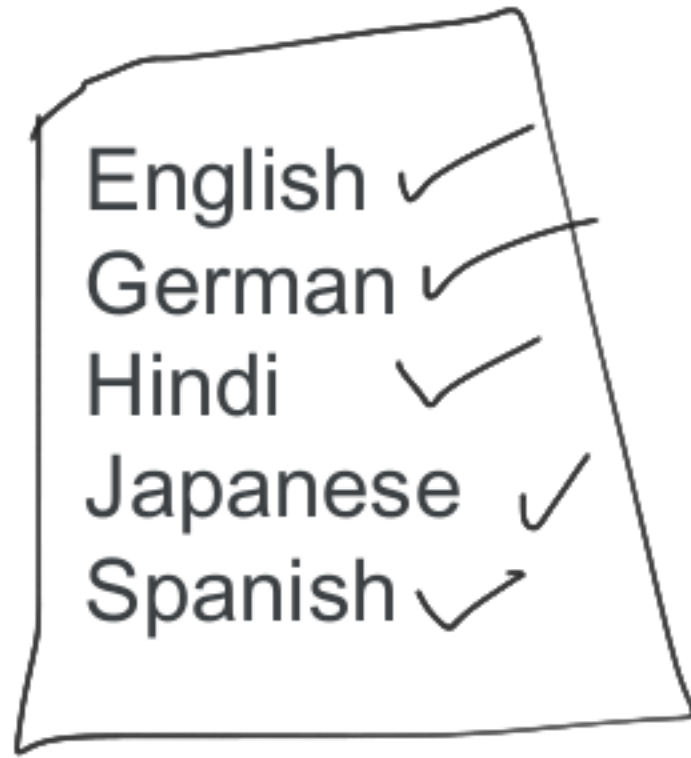
Data

1970s

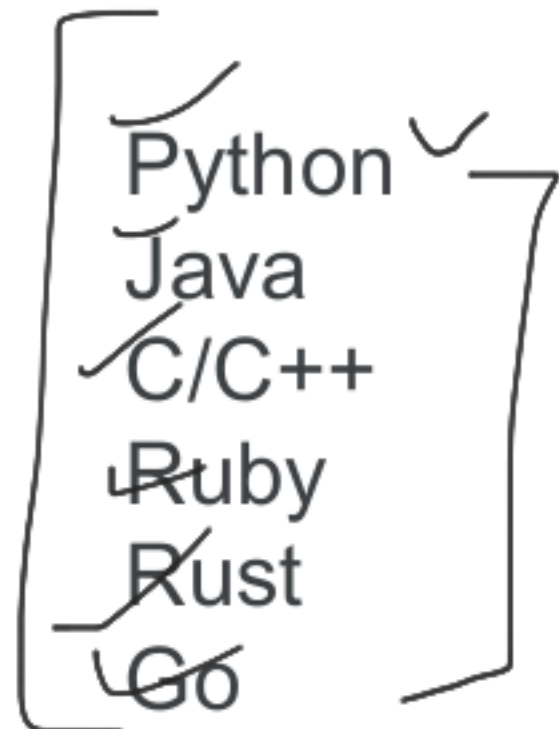
BBC Comedy Series

"Monty Python's Flying Circus"

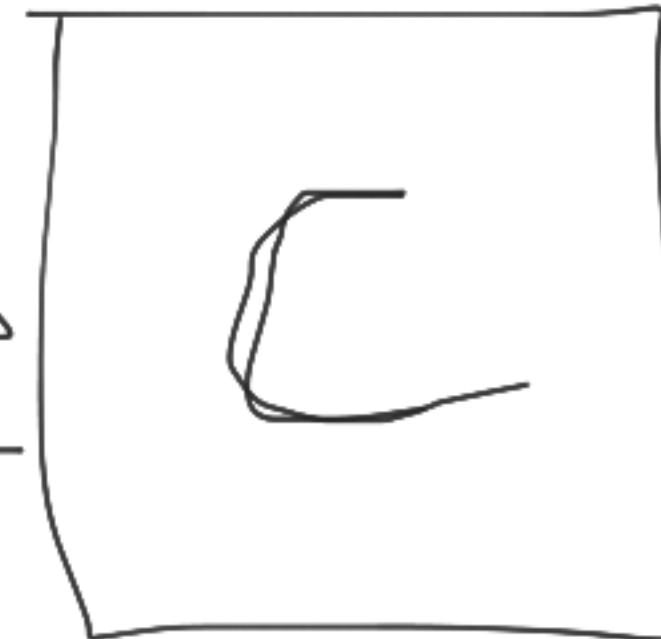
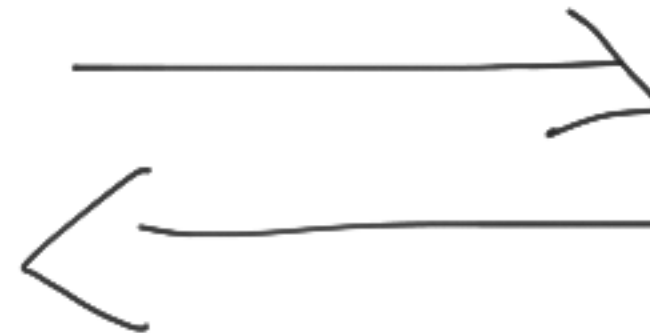
Language -> It is a medium through which beings can communicate with each other.



Hello
Halo



Programming
Language



print()
System.out.println()

cmd

print()

Konichiwa

Translator

Halo

CPython
RPython

Japan

Germany

Hello -> 0000110000

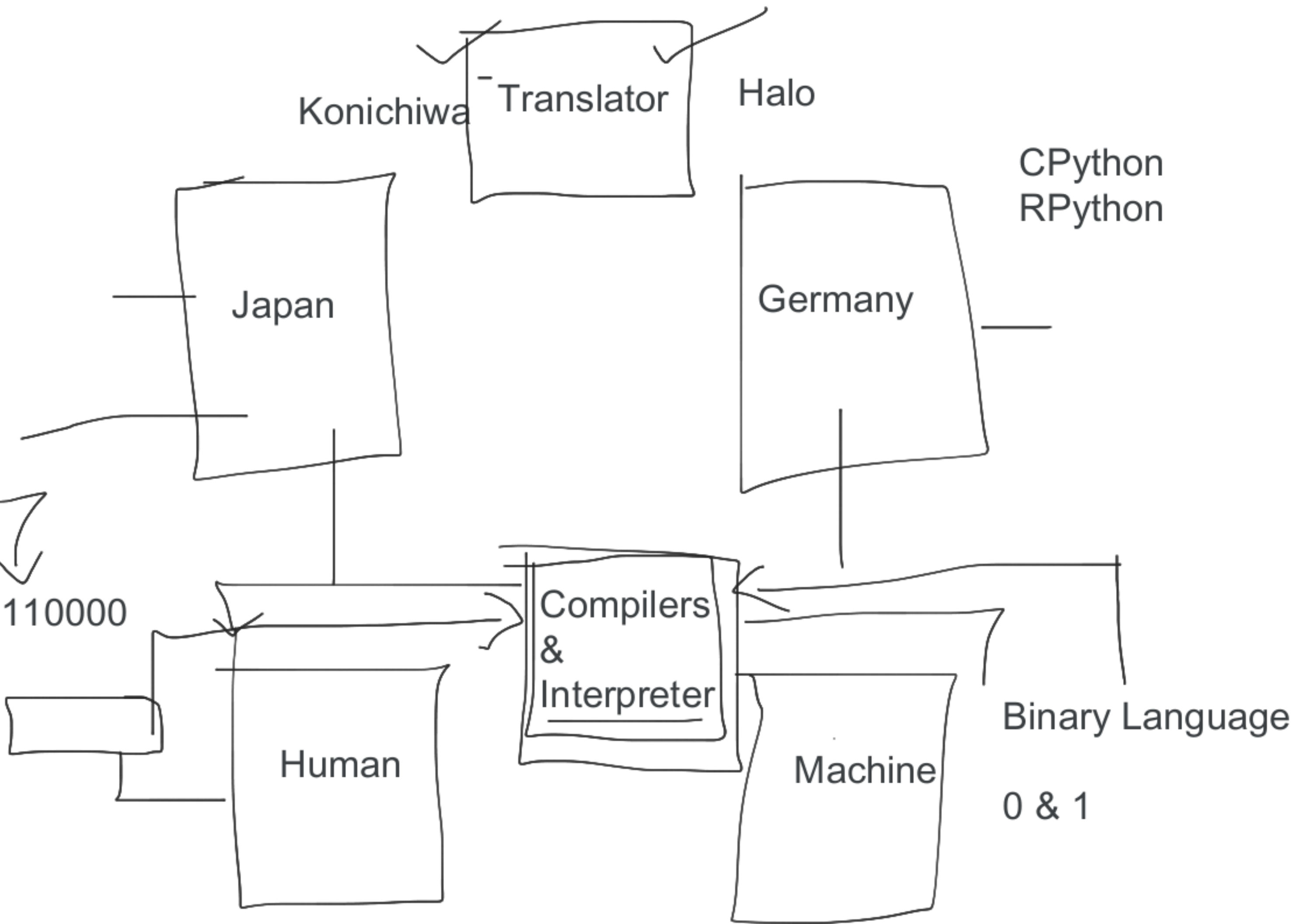
Compilers
&
Interpreter

Binary Language

Human

Machine

0 & 1

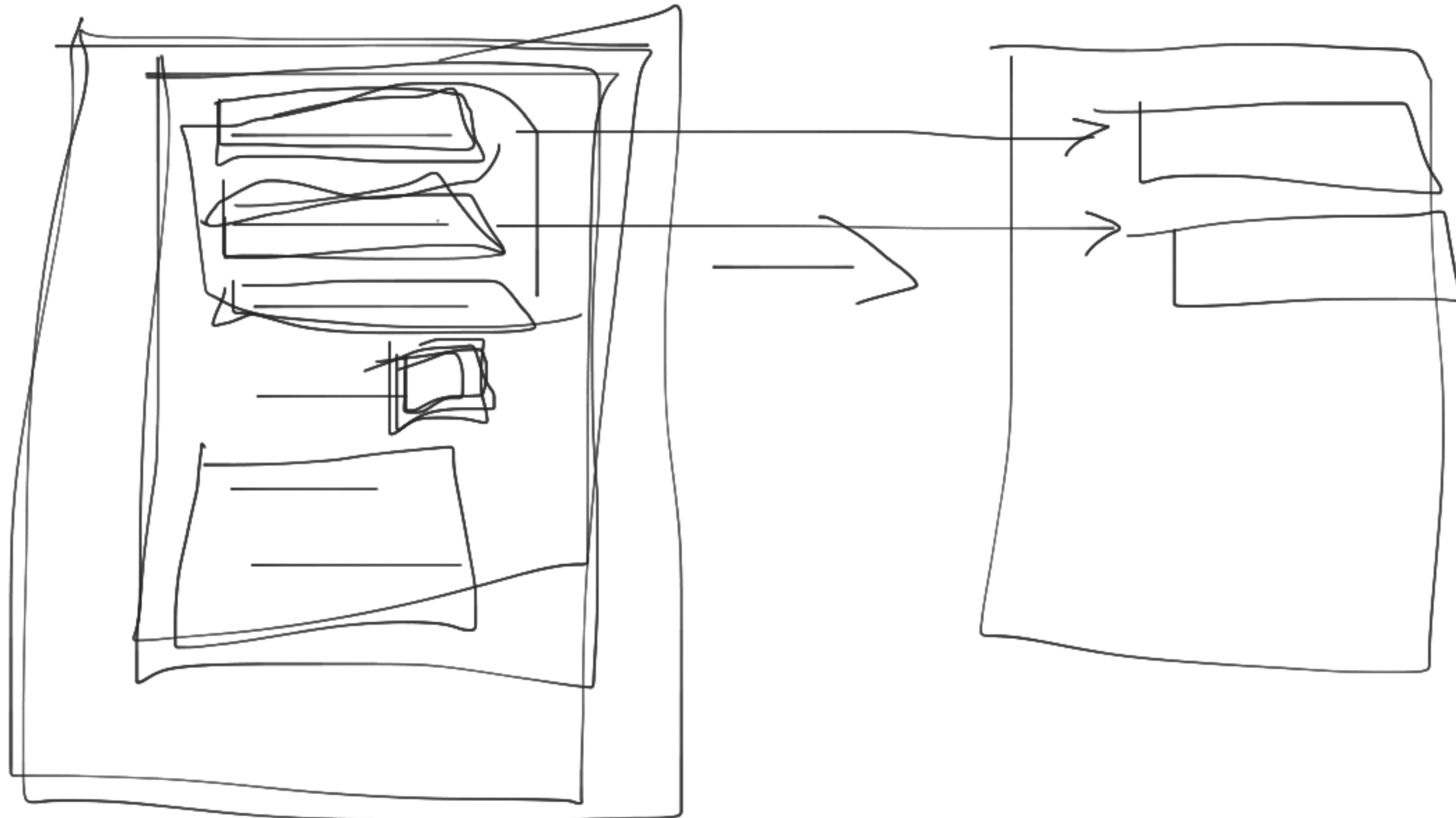


✓
✓
Compiler & Interpreter

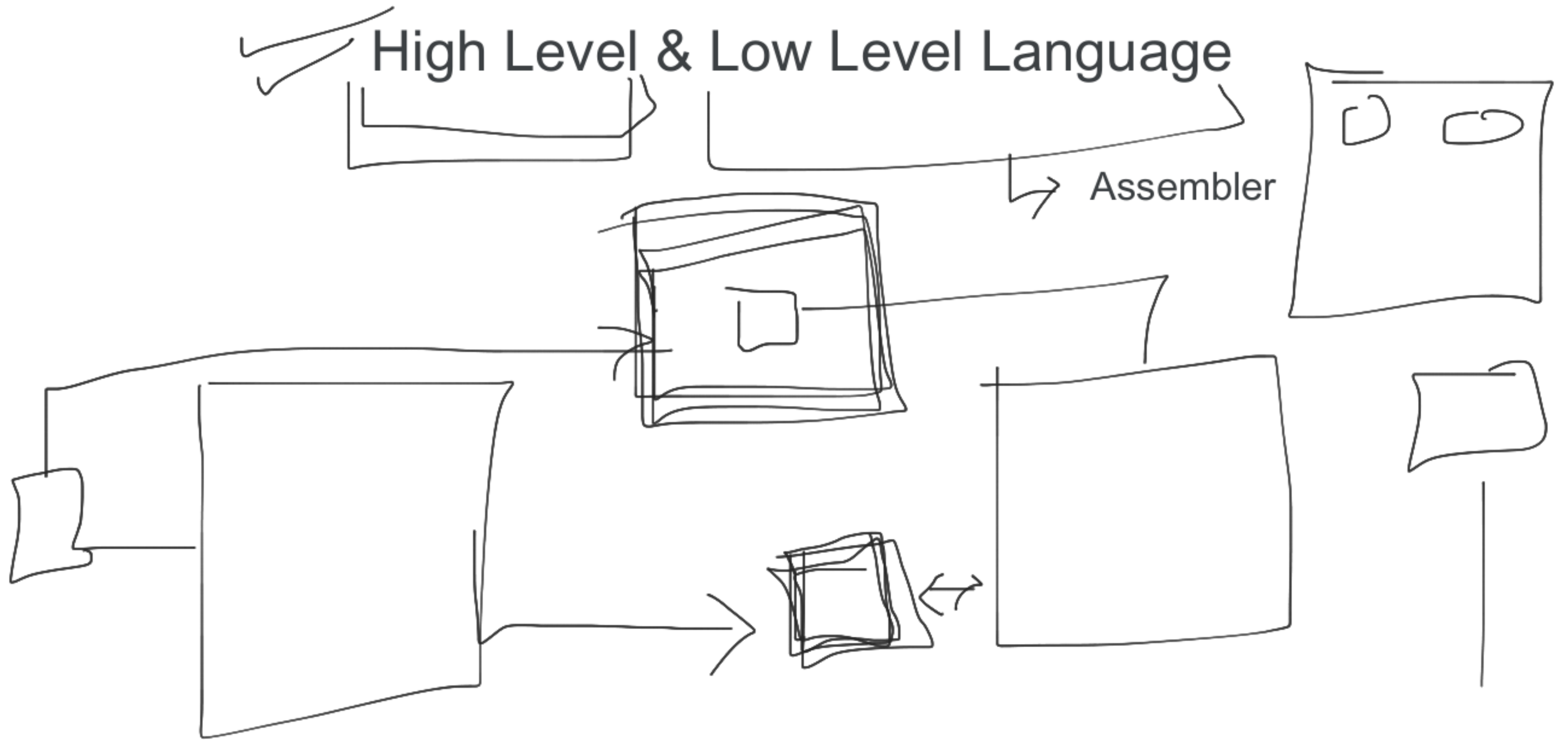
C -> C, C++, Java
I -> Python, Ruby, Js

~~Python is slow~~

✓
CPython



High Level & Low Level Language



Use of Python

1. Web Development -> Django, Flask
2. Mobile Development -> Kivy
3. Desktop Application -> Tkinter, PyQt
4. GUI & CLI
5. Graphics Design Application -> Turtle
5. Web Scraping -> BeautifulSoup, Scrapy
6. Automation -> Selenium, PyAutoGUI
8. API -> REST, FAST
9. Game Development -> PyGame

Science
Astro Science
BioInfo
AL & ML & DL
Finance
Data Visualisation

Car
Carpet

