

GETTING STARTED WITH PYTHON

Session -1



WHY PYTHON ?



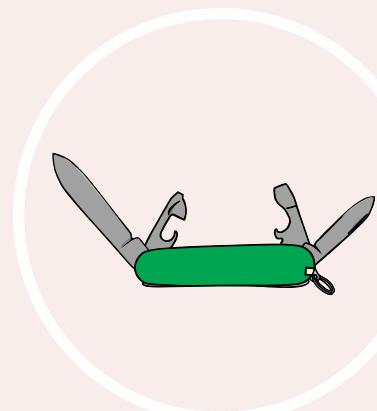
**WORKS ON DIFFERENT
PLATFORMS**



SIMPLE



RAPID DEVELOPMENT



VERSATILITY



**LARGE COMMUNITY AND
ECOSYSTEM**



01 Fun Fact

Guido van Rossum
works with Microsoft now !



How Python will help me as a Cloud professional ?

 **Cloud
Orchestration and
Management**

 **Infrastructure
Automation**

 **DevOps and
Continuous
Integration/Deploy
ment (CI/CD)**

 **Cloud
Monitoring and
Logging**

 **Serverless
Computing**

 **Cloud Data
Analysis and
Machine Learning**



Python Installation

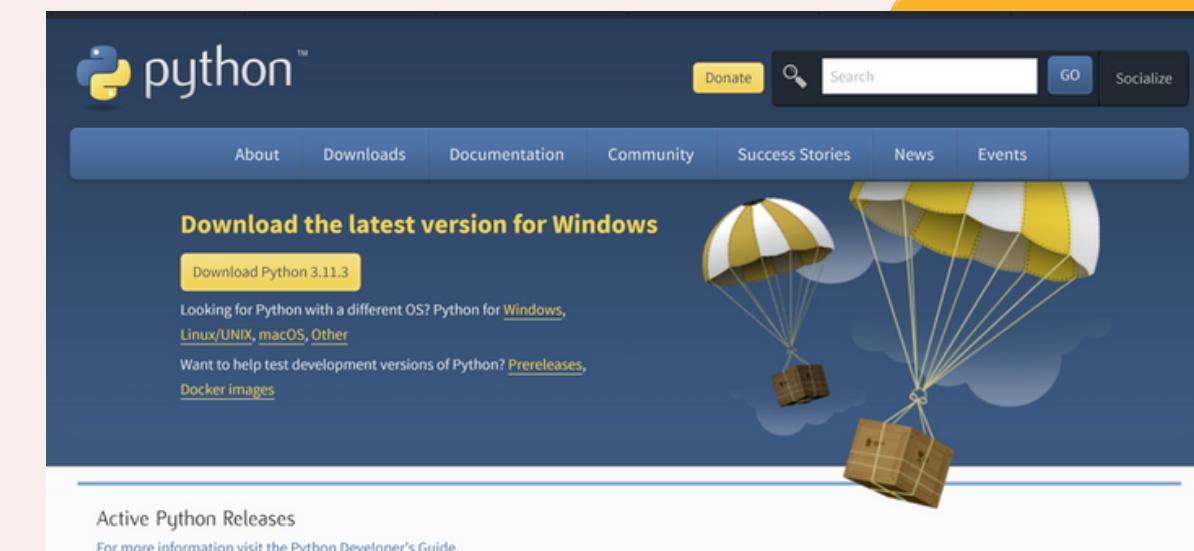
1.

Check if your system
already has python by
folowing command

```
- □ ×  
1 python --version
```

2.

If python is not available then go to
<https://www.python.org/downloads/>



Installing Jupyter

Jupyter Notebook

Install the classic Jupyter Notebook with:

```
pip install notebook
```

To run the notebook:

```
jupyter notebook
```

SETTING UP PYTHON IN VS CODE

01

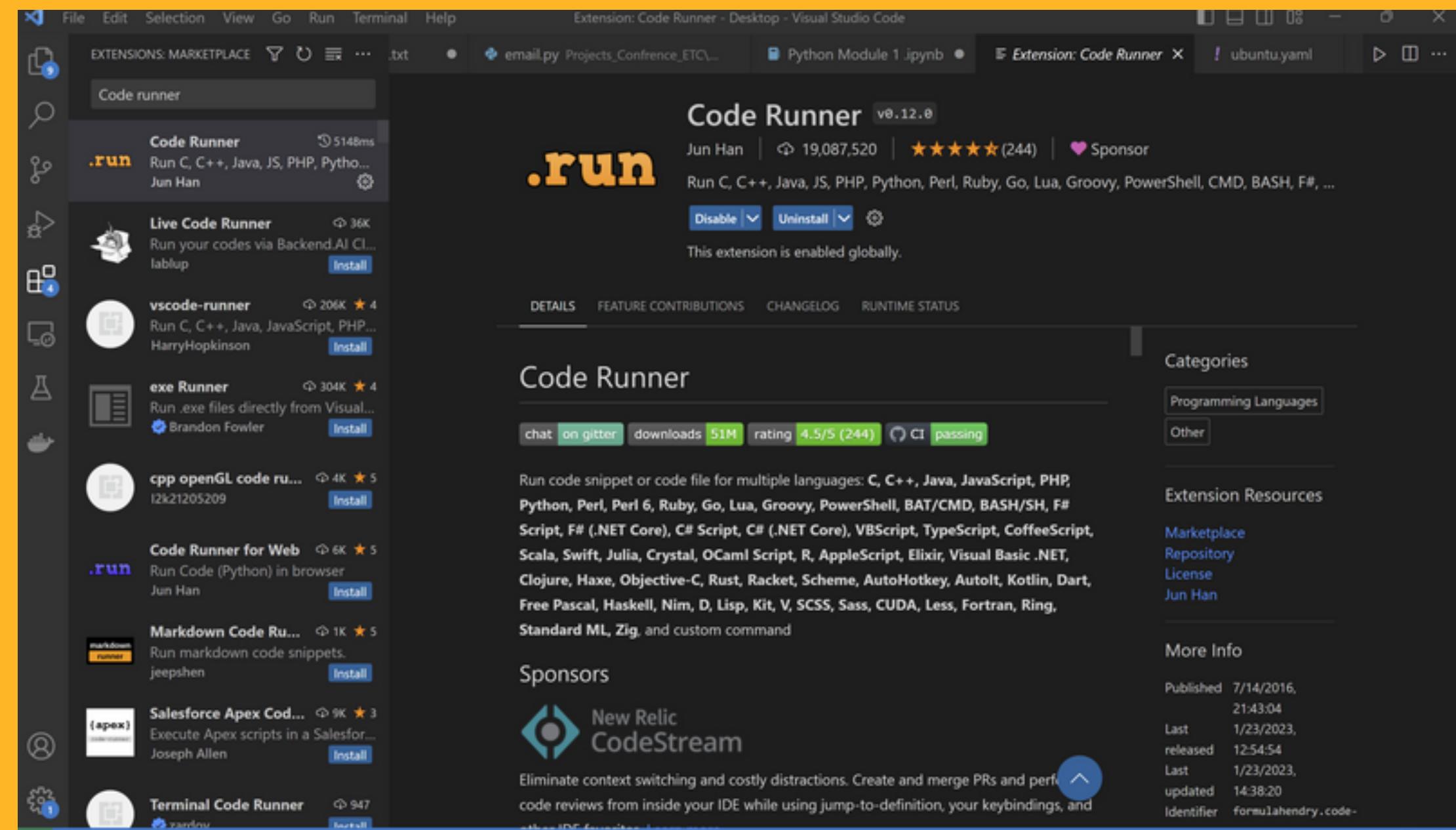
Install Python Extension



SETTING UP PYTHON IN VS CODE

02

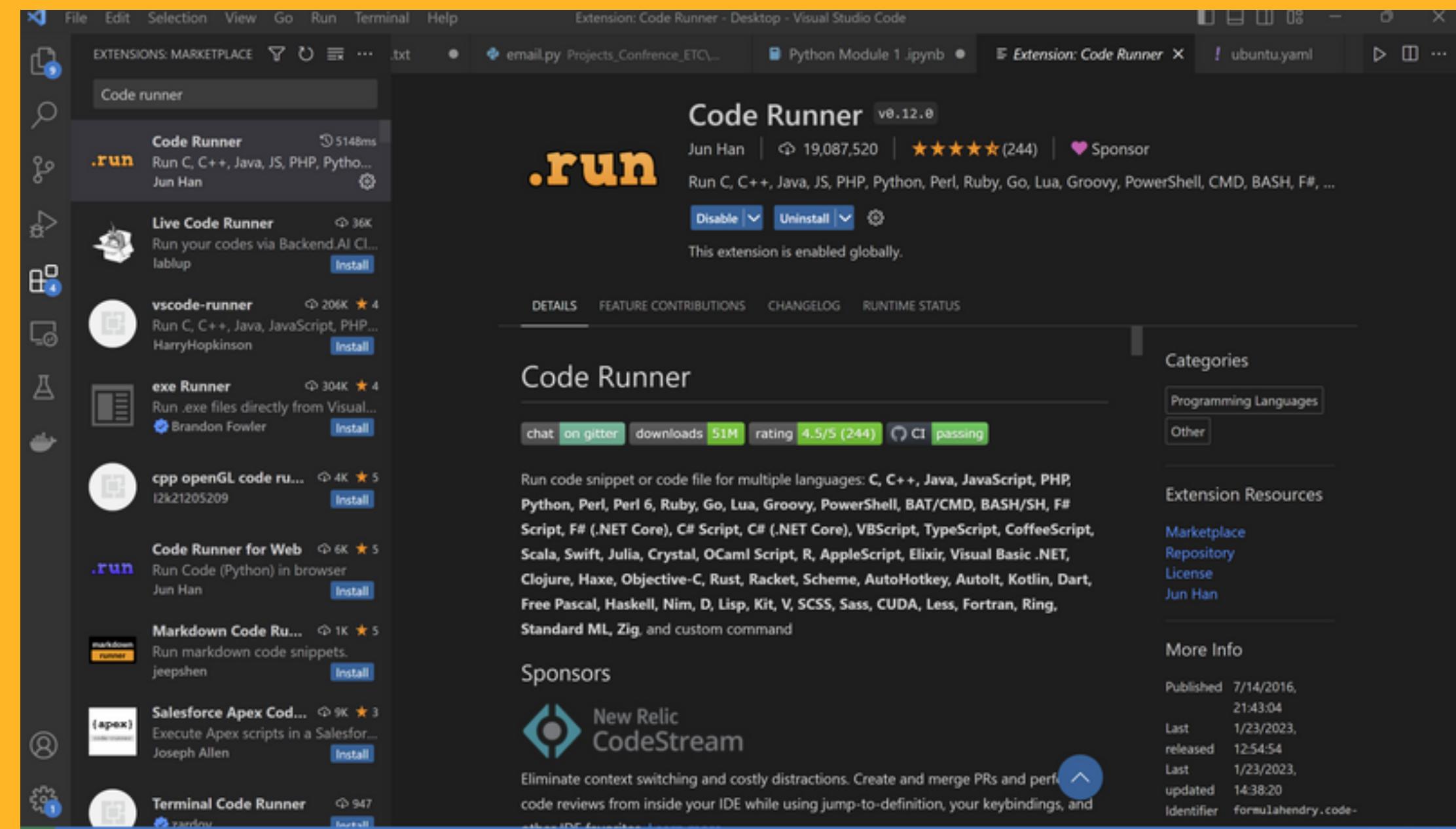
Download Code
Runner
Extension



SETTING UP PYTHON IN VS CODE

03

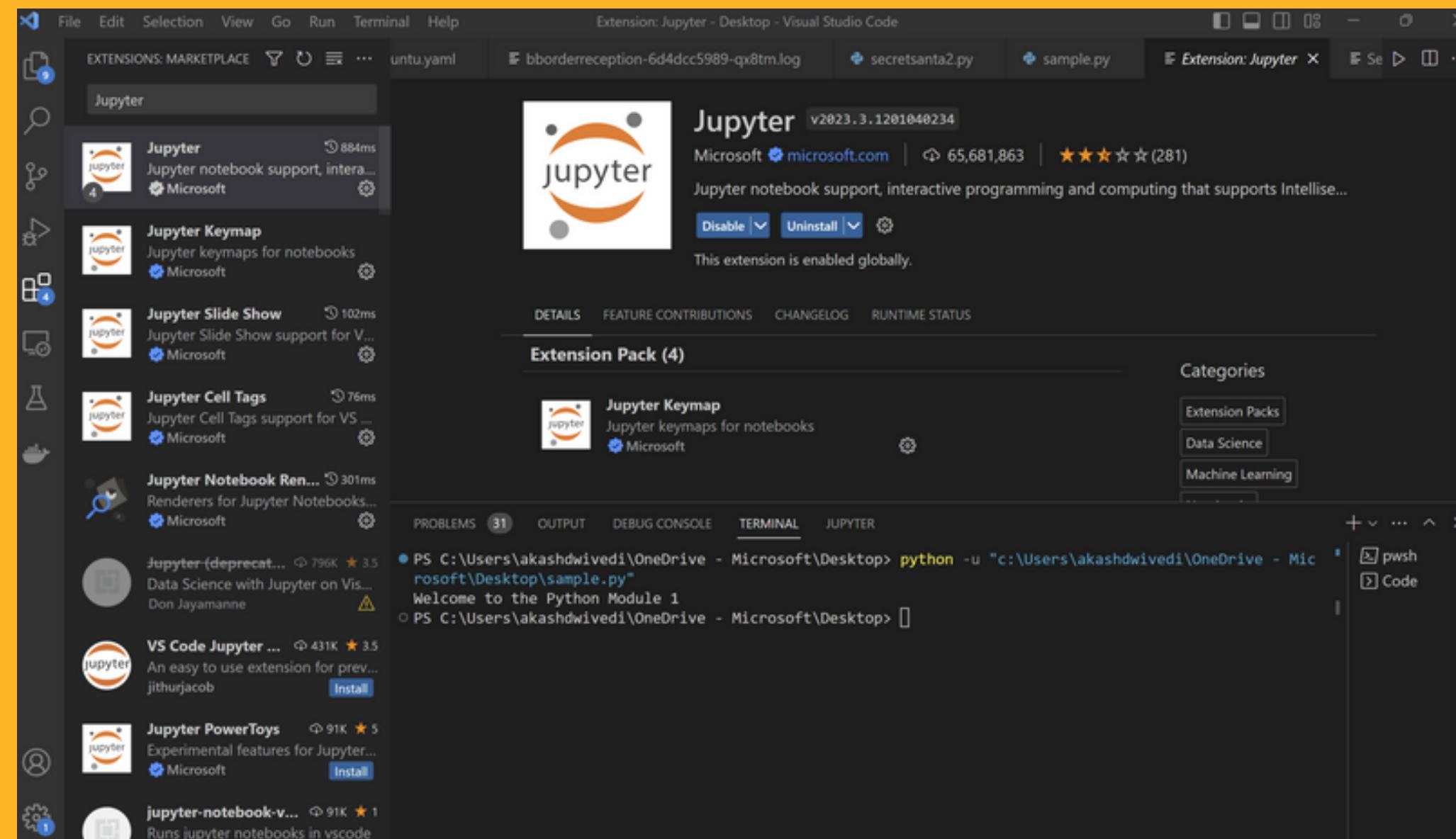
Download Code
Runner
Extension



SETTING UP JUPYTER IN VS CODE (OPTIONAL)

04

Install Jupyter
Extension

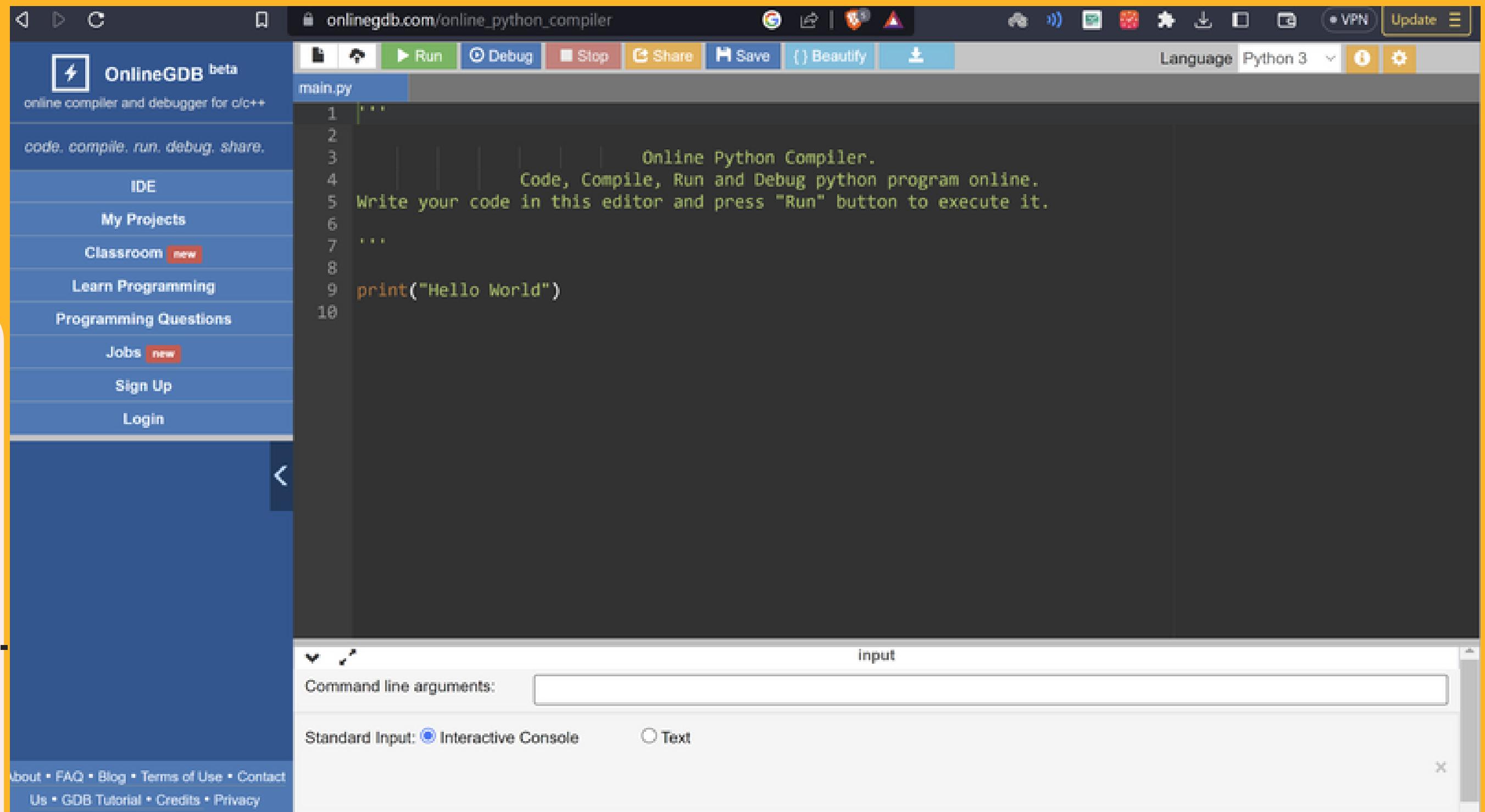


NEED A EASIER OPTION?

EASY!

04

Just go to the
https://www.onlinegdb.com/online_python_compiler



The screenshot shows the OnlineGDB beta interface for Python. The main window title is "onlinegdb.com/online_python_compiler". The left sidebar has a "main.py" file selected. The code editor contains the following Python script:

```
1  """
2
3      Online Python Compiler.
4      Code, Compile, Run and Debug python program online.
5      Write your code in this editor and press "Run" button to execute it.
6
7  ...
8
9  print("Hello World")
10
```

Below the code editor, there is a "Command line arguments:" input field and a "Standard Input:" section with radio buttons for "Interactive Console" (selected) and "Text". The bottom navigation bar includes links for "About", "FAQ", "Blog", "Terms of Use", "Contact", "Us", "GDB Tutorial", "Credits", and "Privacy".



02 Fun Fact

Python has Poetry

`import this`

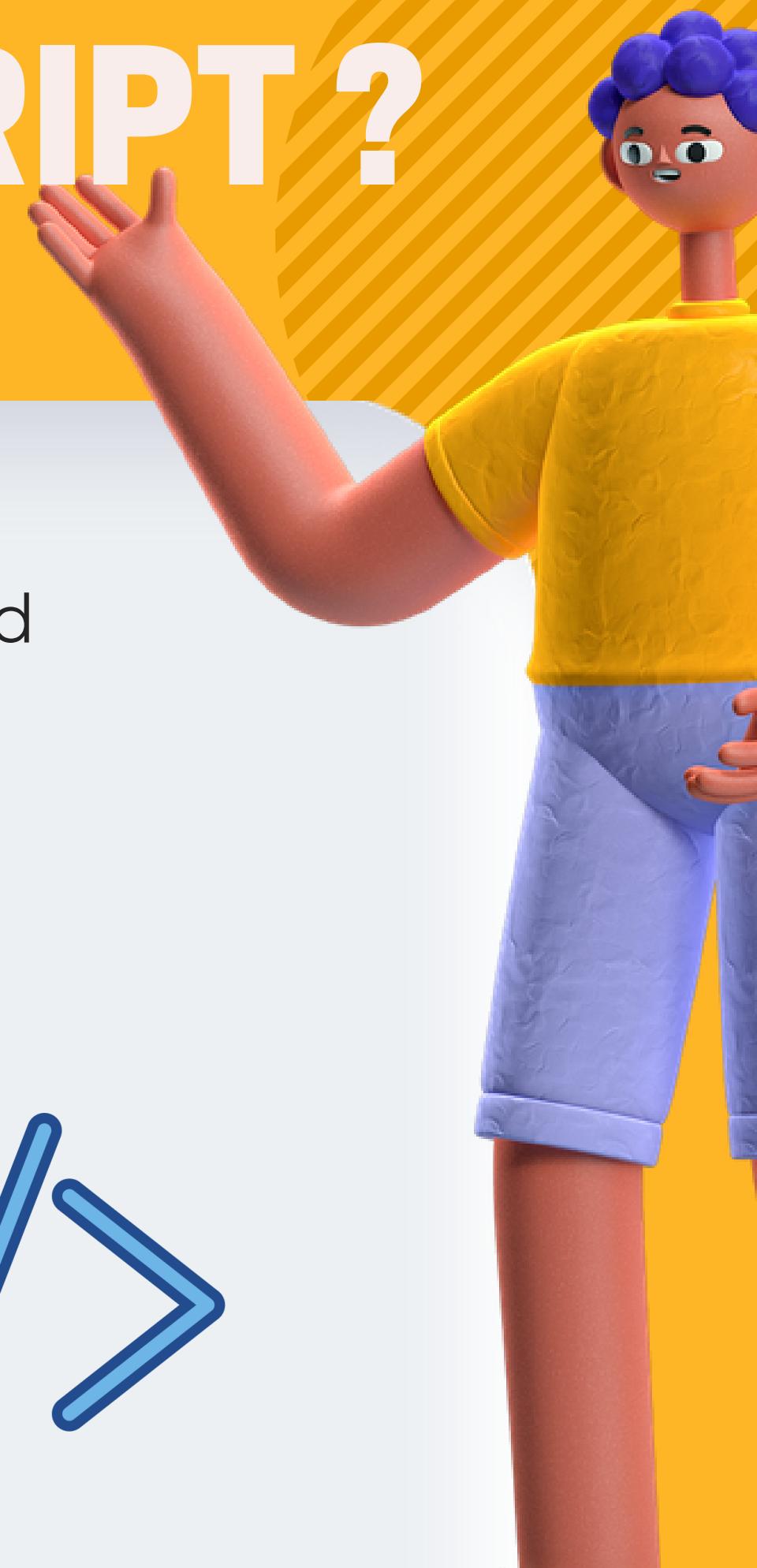
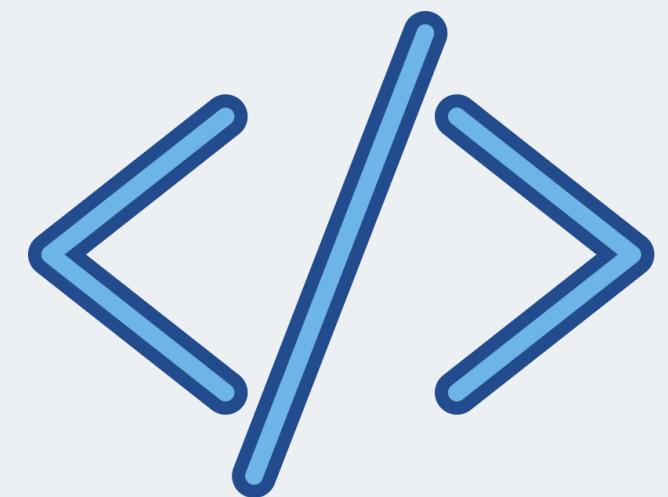
Hello World



Lets create first python
program

SO WHAT IS PYTHON SCRIPT ?

- When you call a python program from the command line
- Can act both as a script and as a module





300,000

Python has more than 3 lakh+
packages

FIRST PYTHON SCRIPT

```
helloworld.py - □ ×  
1 print("Hello world")  
2 print("Welcome to the Python Module 1")  
3  
4  
5  
6  
7  
8  
9  
10  
11
```



z

y

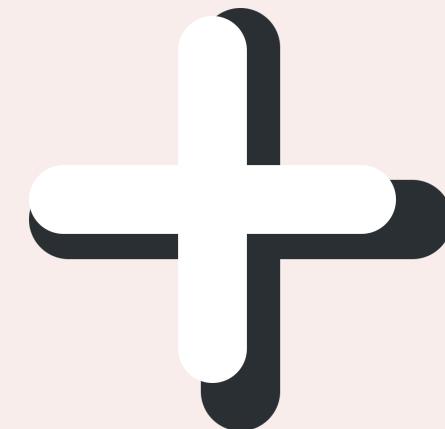
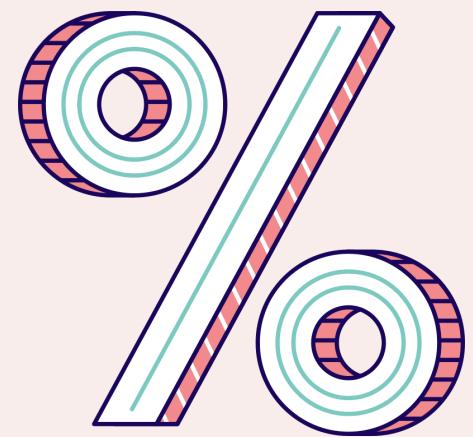
x

Variables

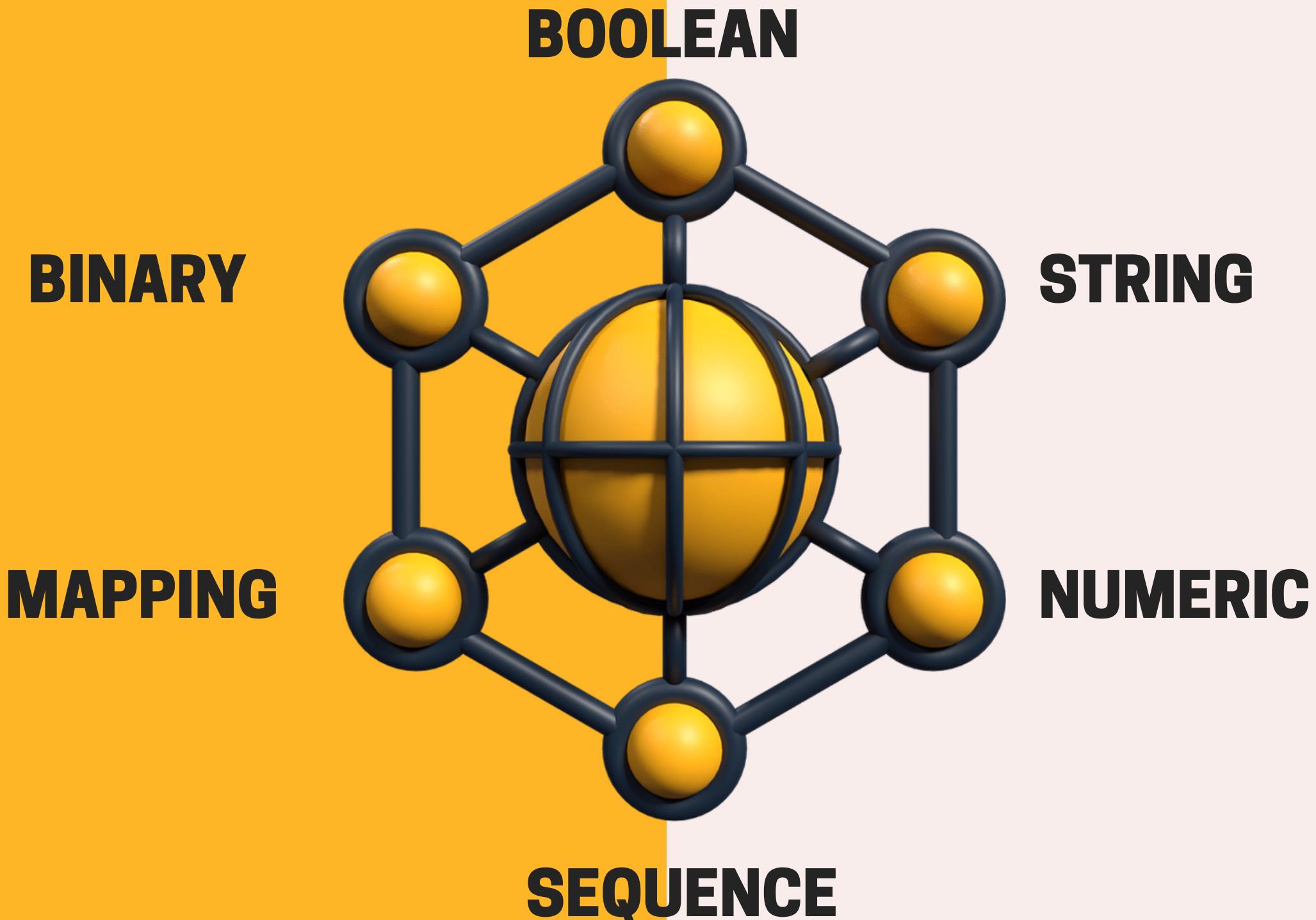
Variables are containers
for storing data values.

https://www.w3schools.com/python/python_variables.asp

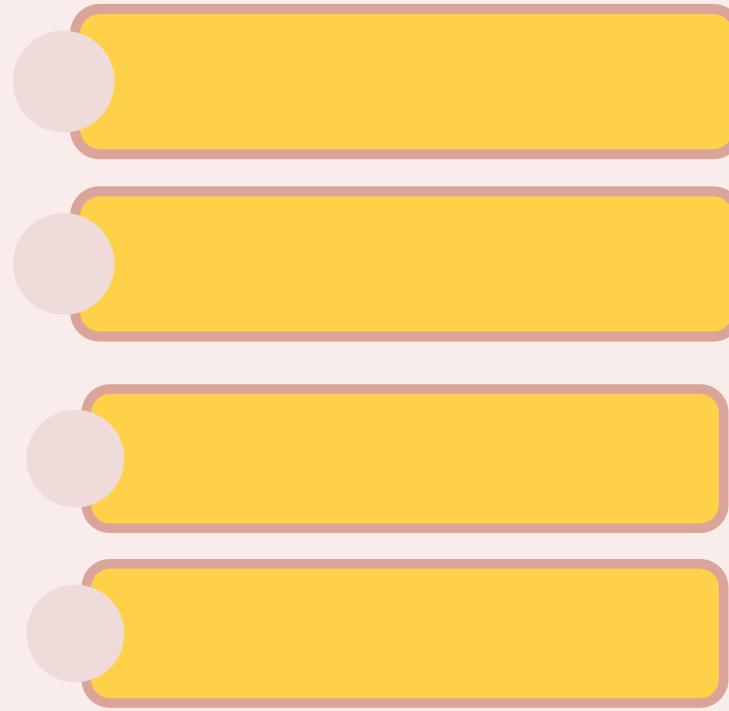
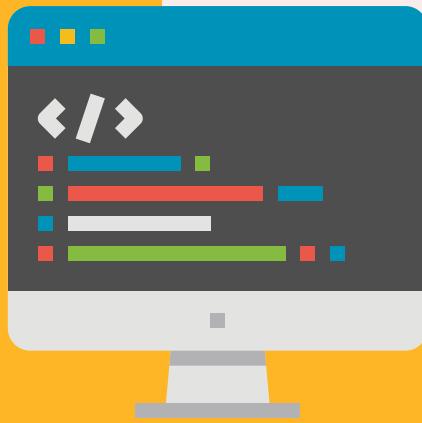
Simple Calculations



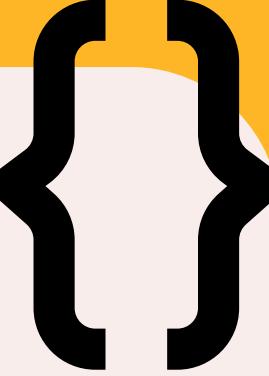
Datatypes



LIST



https://www.w3schools.com/python/python_lists.asp



Dictionary



https://www.w3schools.com/python/python_dictionaries.asp



LOOP ∞

[w3schools.com/python/python_for_loops.asp](https://www.w3schools.com/python/python_for_loops.asp)





Conditionals



https://www.w3schools.com/python/python_conditions.asp

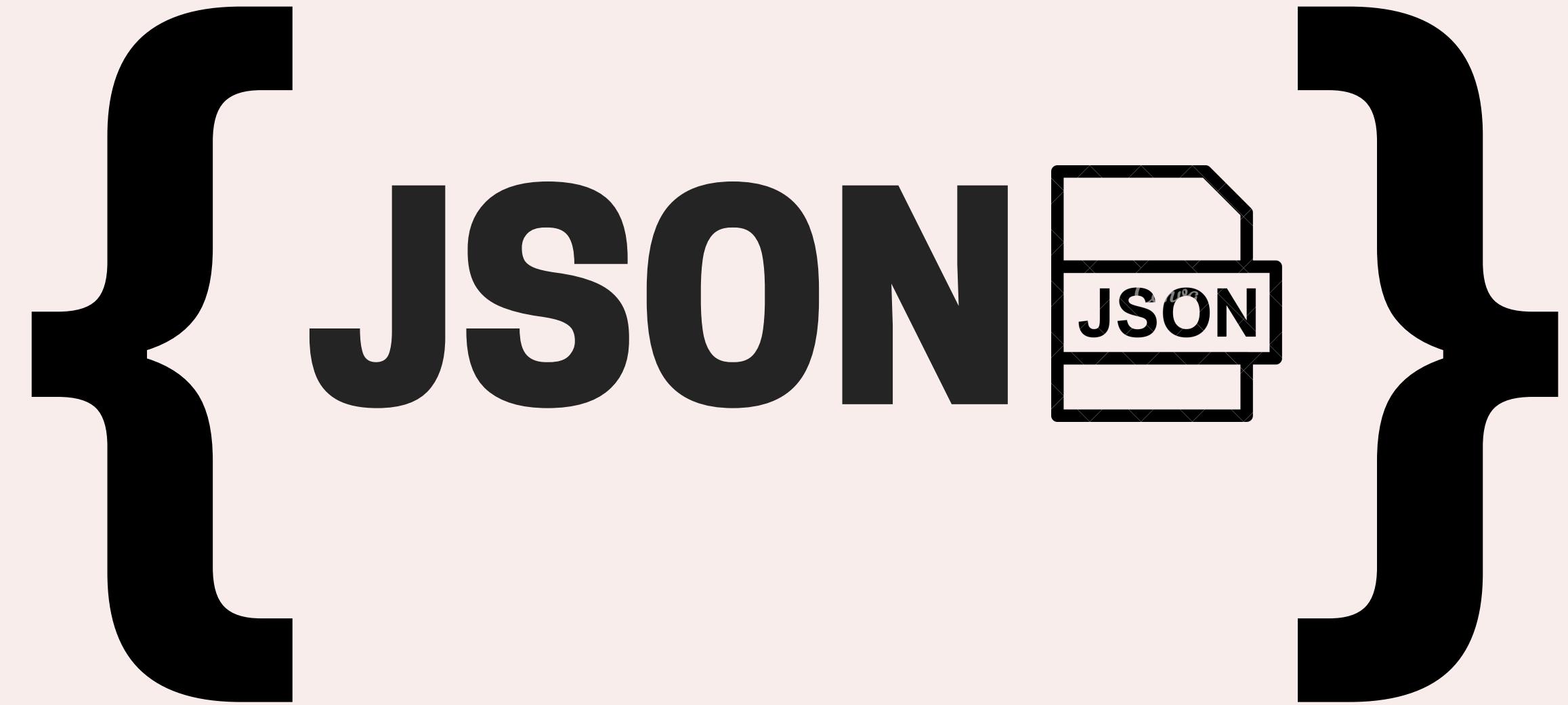


</> Functions()

https://www.w3schools.com/python/python_functions.asp



JSON



https://www.w3schools.com/python/python_json.asp

THANK YOU!

