

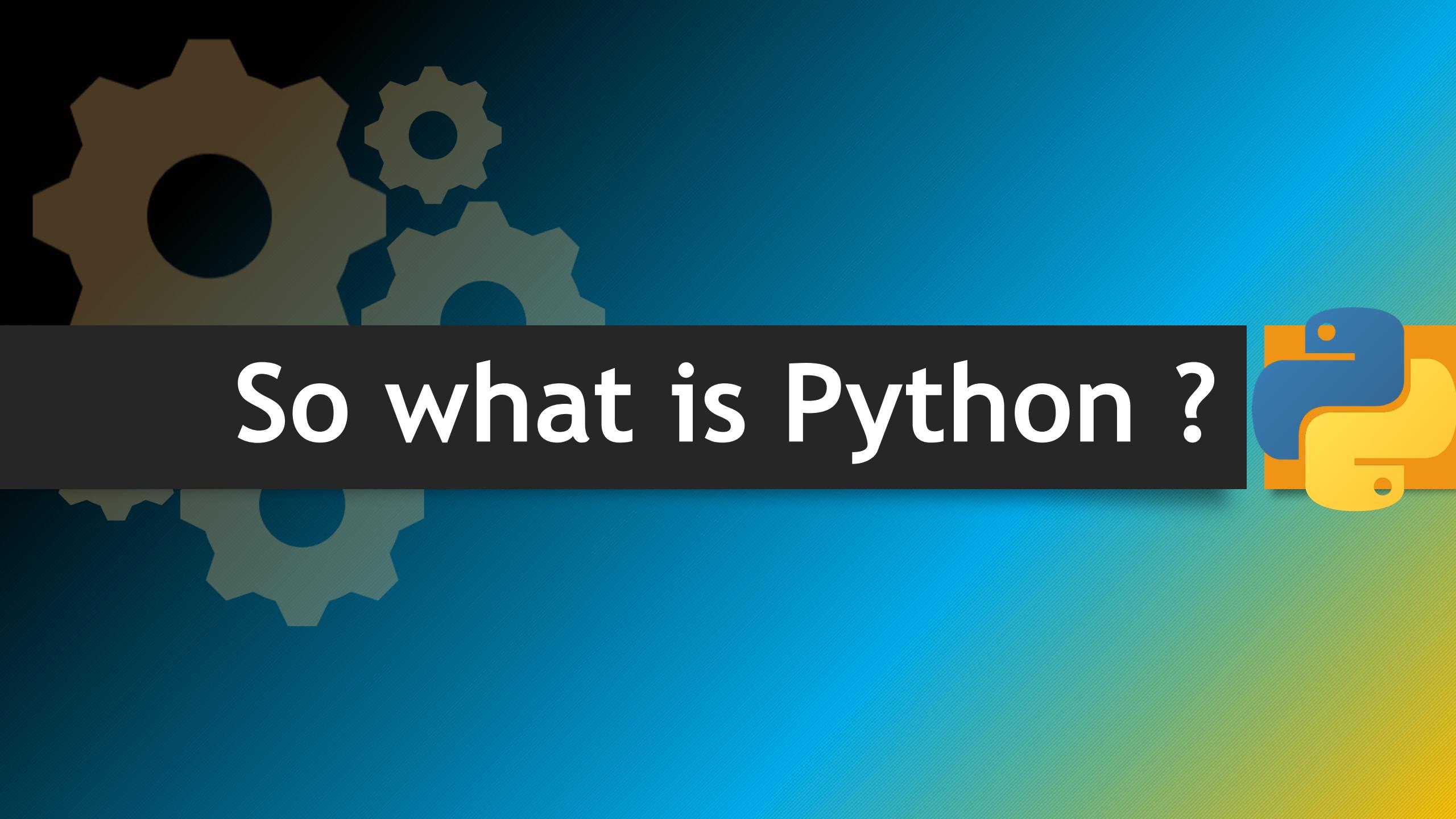
Introduction to Python

3

Presented by : Ramesh Pradhan

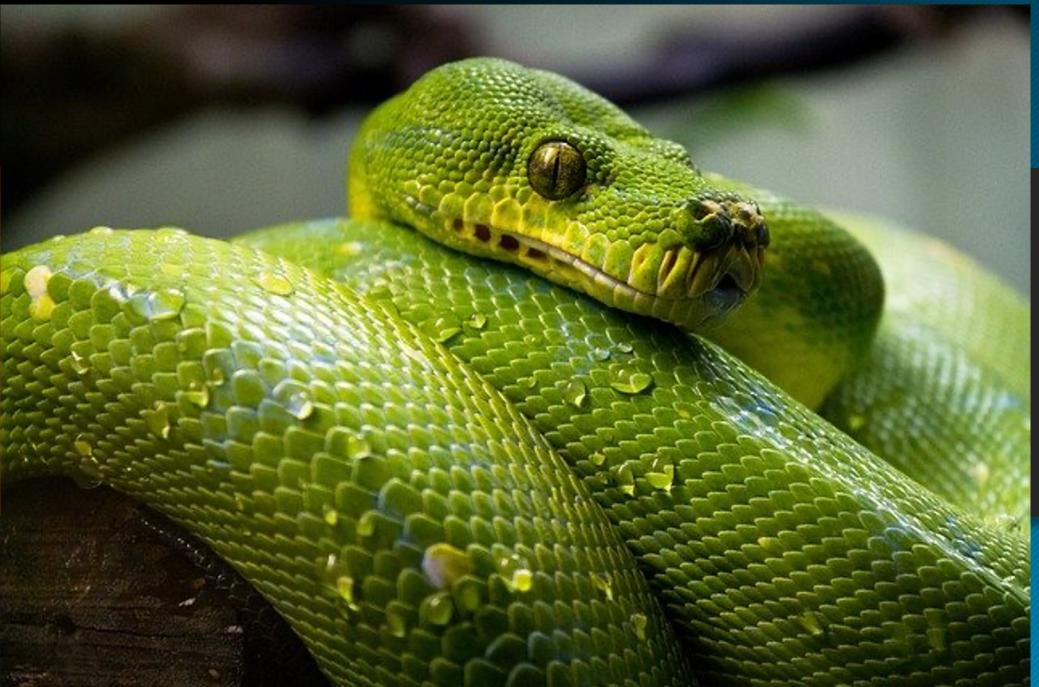
Designation : Senior Software Engineer

Company : Tekvortex Pvt. Ltd.



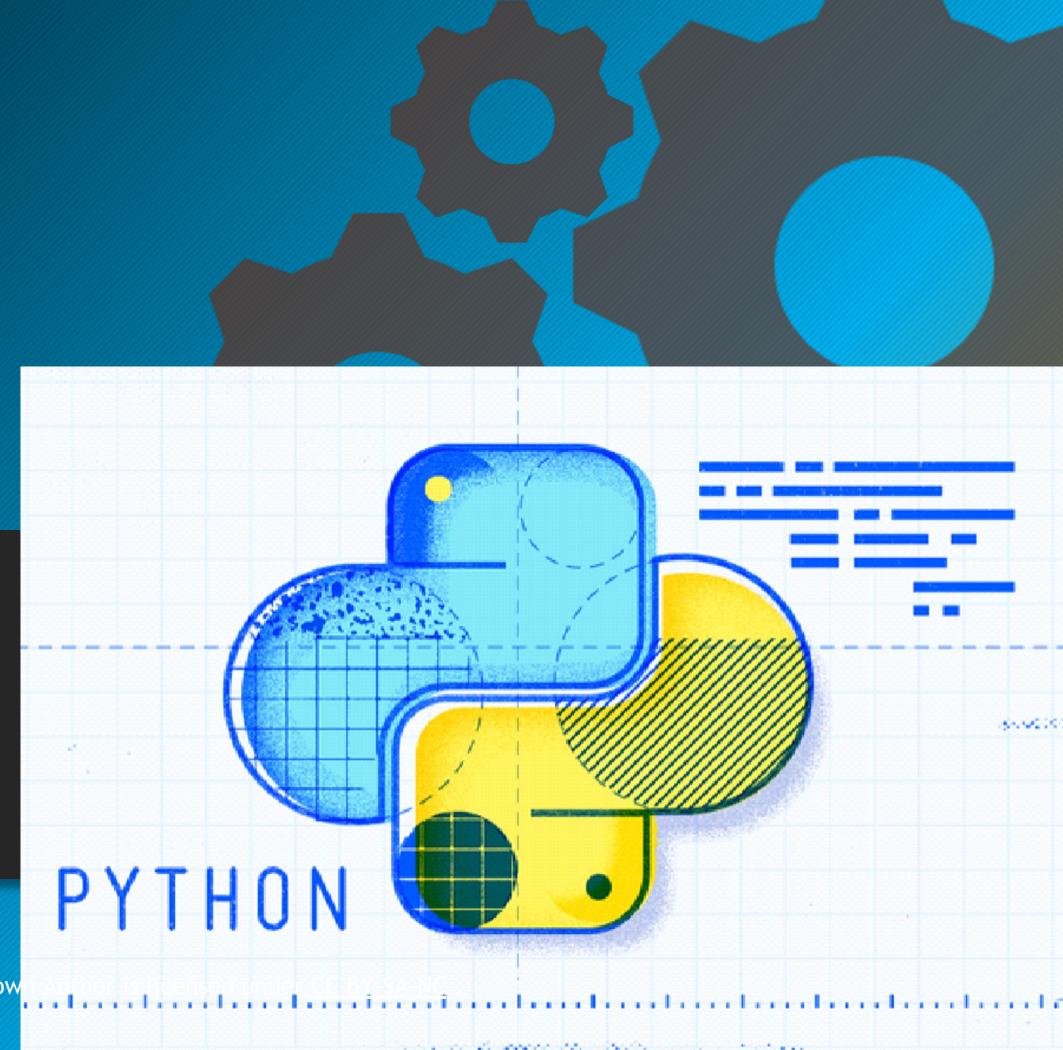
So what is Python ?



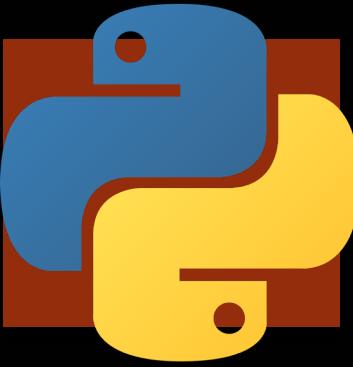


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[This Photo](#) by Unknown



2024

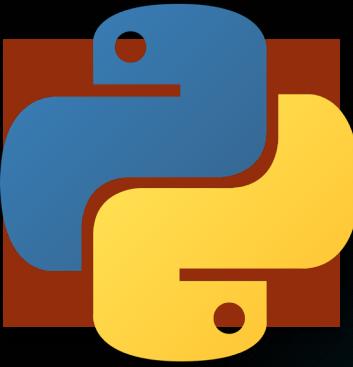


What is Python?

- an interpreted, high-level, general purpose programming language to talk to machine
 - dynamically typed and garbage-collected.
 - Is with "batteries included"



Guido Van Rossum



Why learn Python?

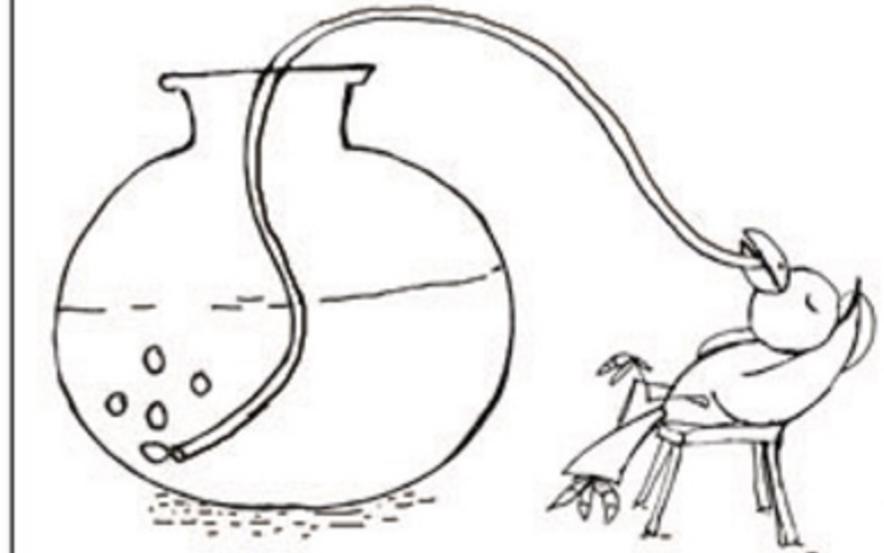
Non-programmer

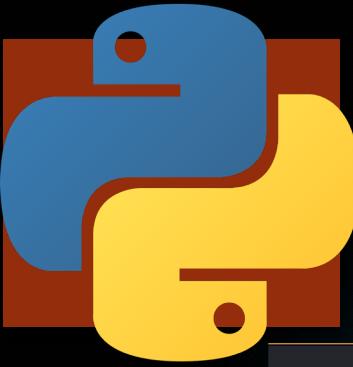


Programmer

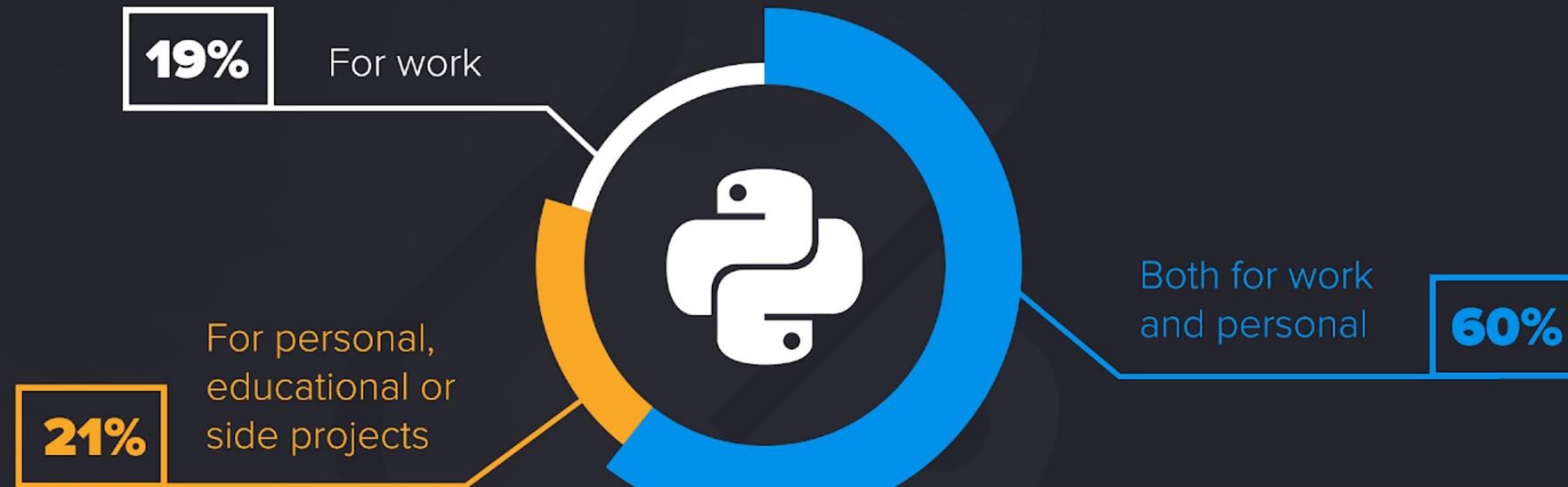


Python Programmer

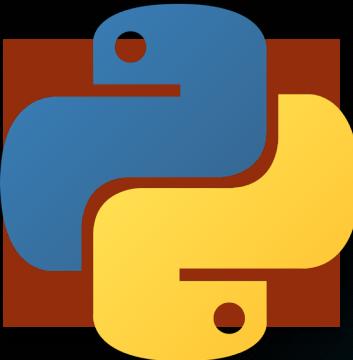




And why learn now?



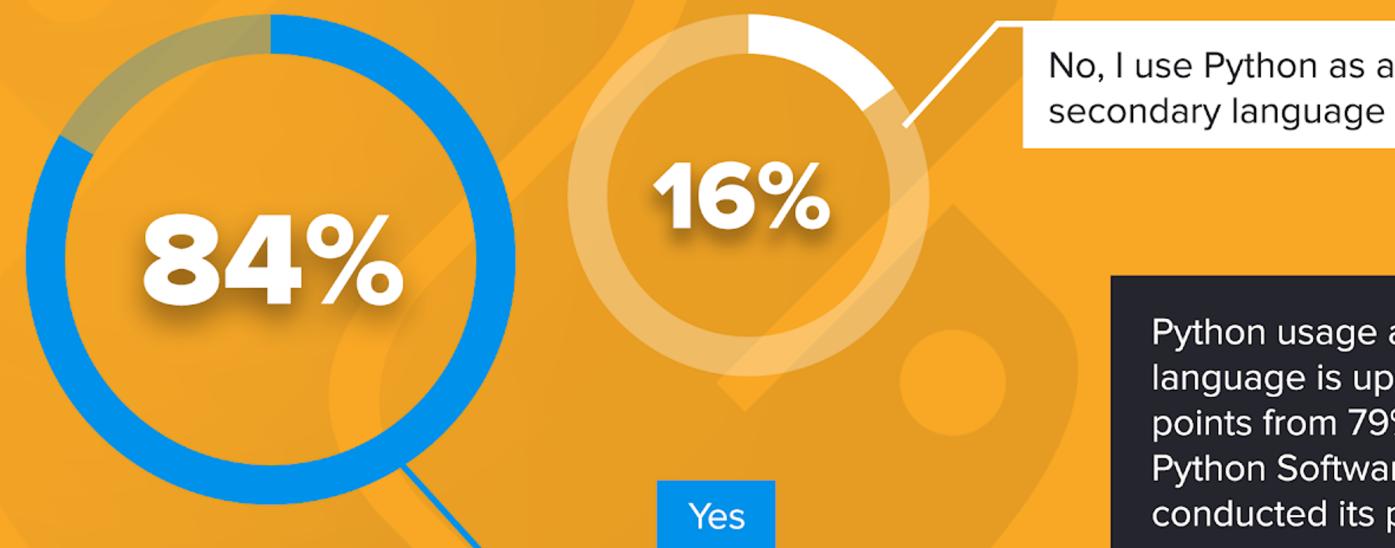
SOURCE: <https://www.jetbrains.com/research/python-developers-survey-2018/>



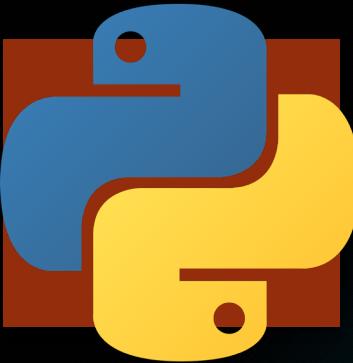
And why learn now? Cont..

General Python Usage

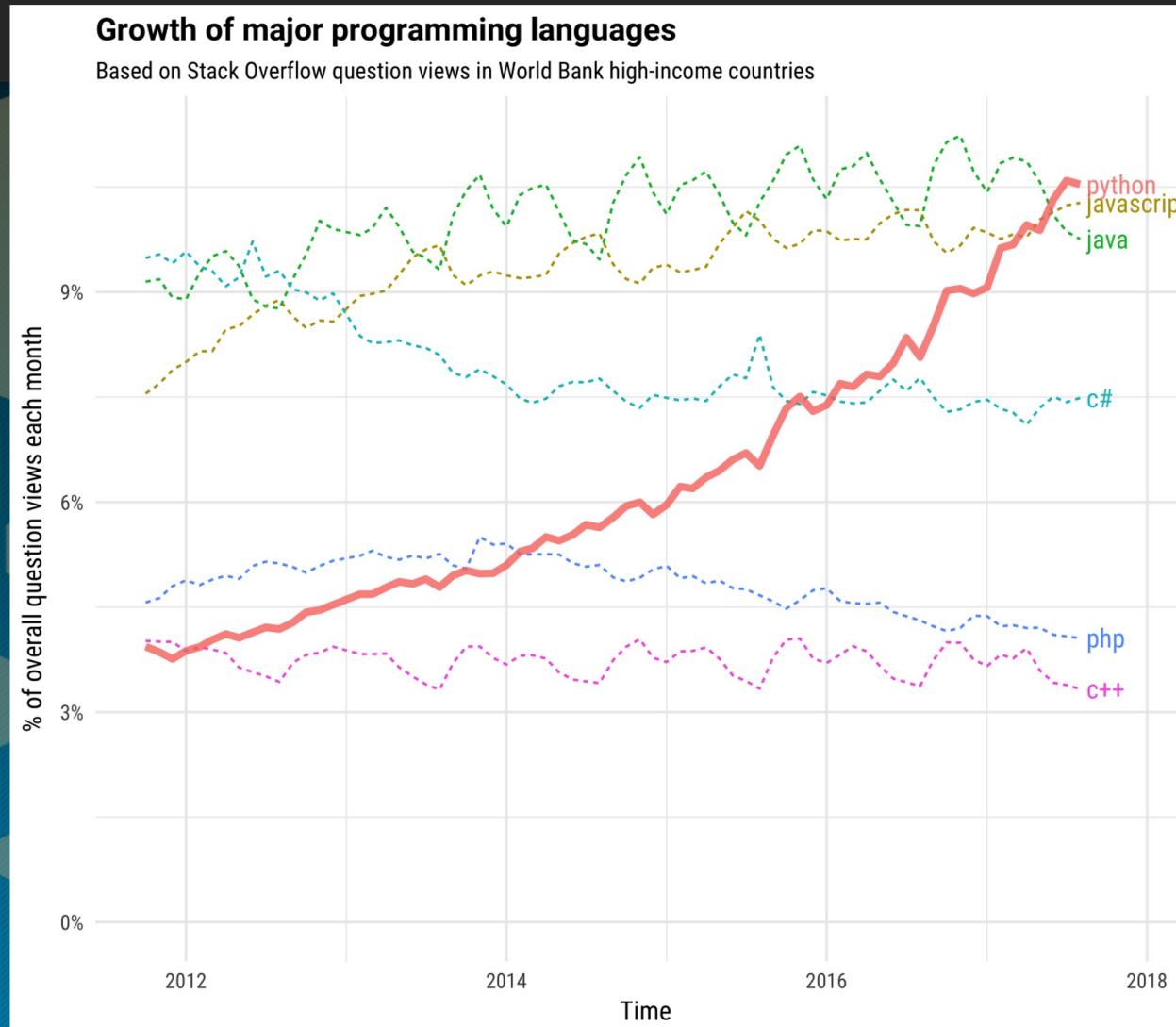
Python as Main vs Secondary Language

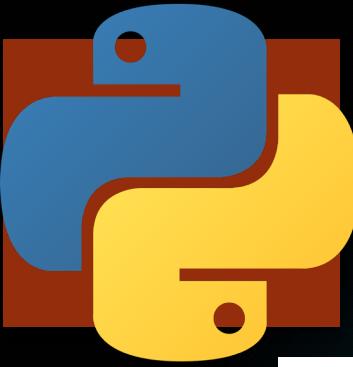


Python usage as a main language is up 5 percentage points from 79% in 2017 when Python Software Foundation conducted its previous survey.

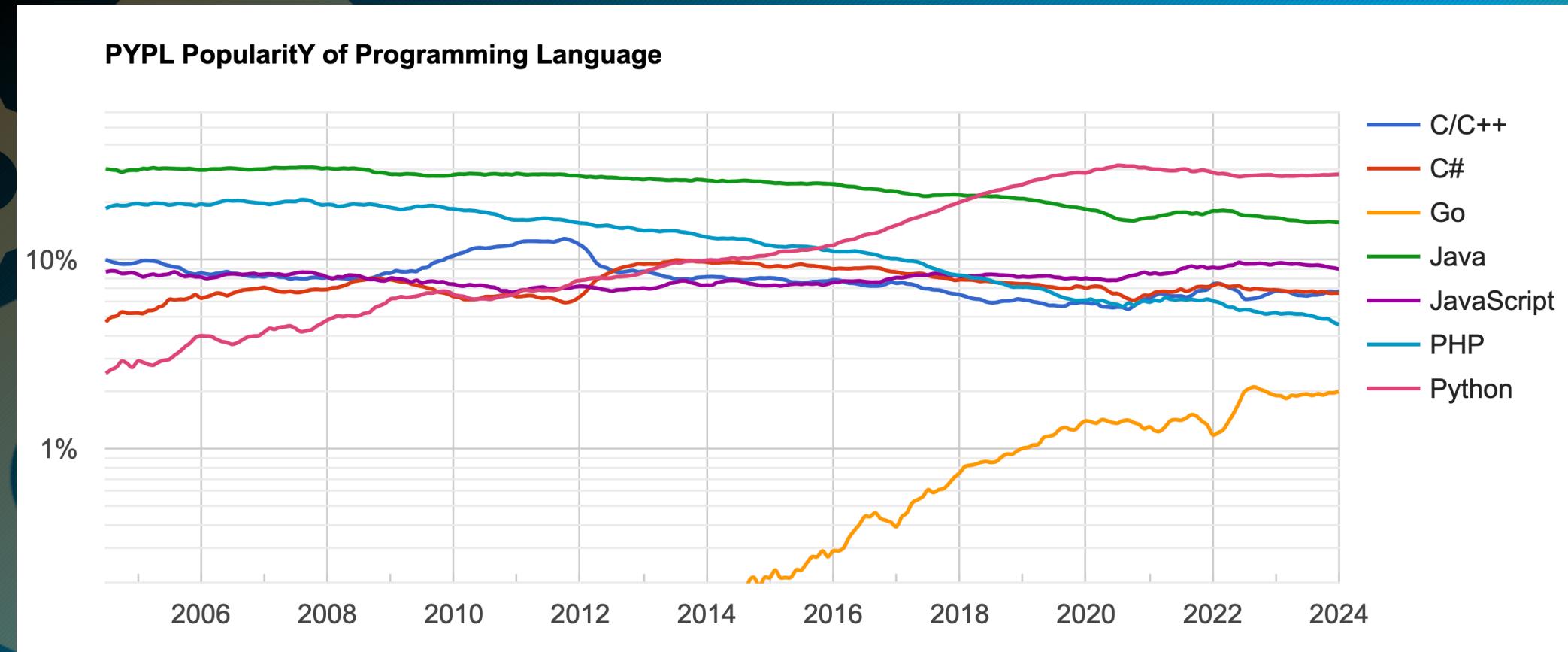


And why learn now? Cont..

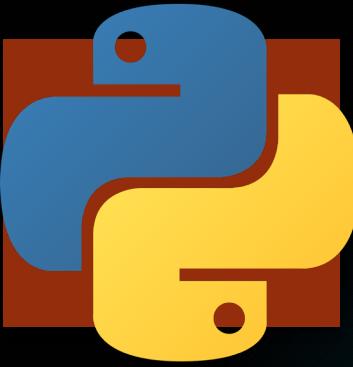




And why learn now? Cont..



Source: <https://pypl.github.io/PYPL.html>



And why learn now? Cont..

stack overflow

Overview
Key Results
Developer Profile
Technology
I. Most Popular Technologies
II. Most Loved, Dreaded, and Wanted
III. Development Environments and Tools
IV. Blockchain in the Real World
V. Top Paying Technologies
VI. Correlated Technologies
Work
Community
Methodology
Back to top

Take control of your job search.
Stack Overflow Jobs puts developers first. No recruiter

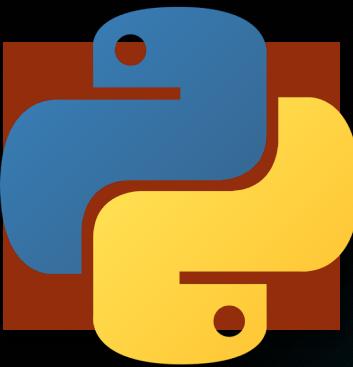
Most Popular Technologies

Programming, Scripting, and Markup Languages

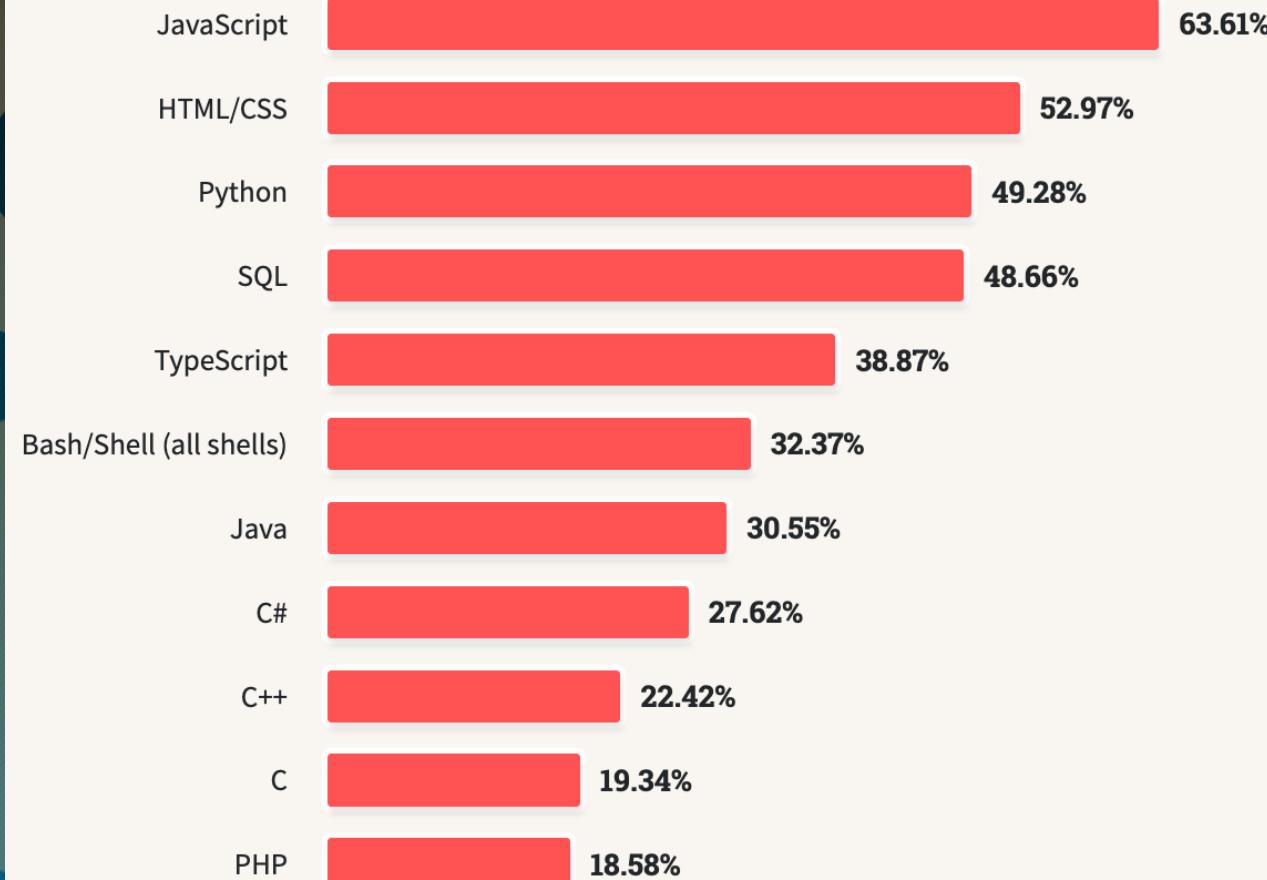
All Respondents Professional Developers

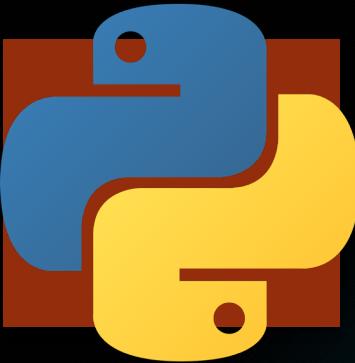
Technology	All Respondents (%)	Professional Developers (%)
JavaScript	67.8%	67.8%
HTML/CSS	63.5%	63.5%
SQL	54.4%	54.4%
Python	41.7%	41.7%
Java	41.1%	41.1%
Bash/Shell/PowerShell	36.6%	36.6%
C#	31.0%	31.0%
PHP	26.4%	26.4%
C++	23.5%	23.5%
TypeScript	21.2%	21.2%
C	20.6%	20.6%
Ruby	8.4%	8.4%
Go	8.2%	8.2%

<https://insights.stackoverflow.com/survey/2019#technology>



And why learn now? Cont..

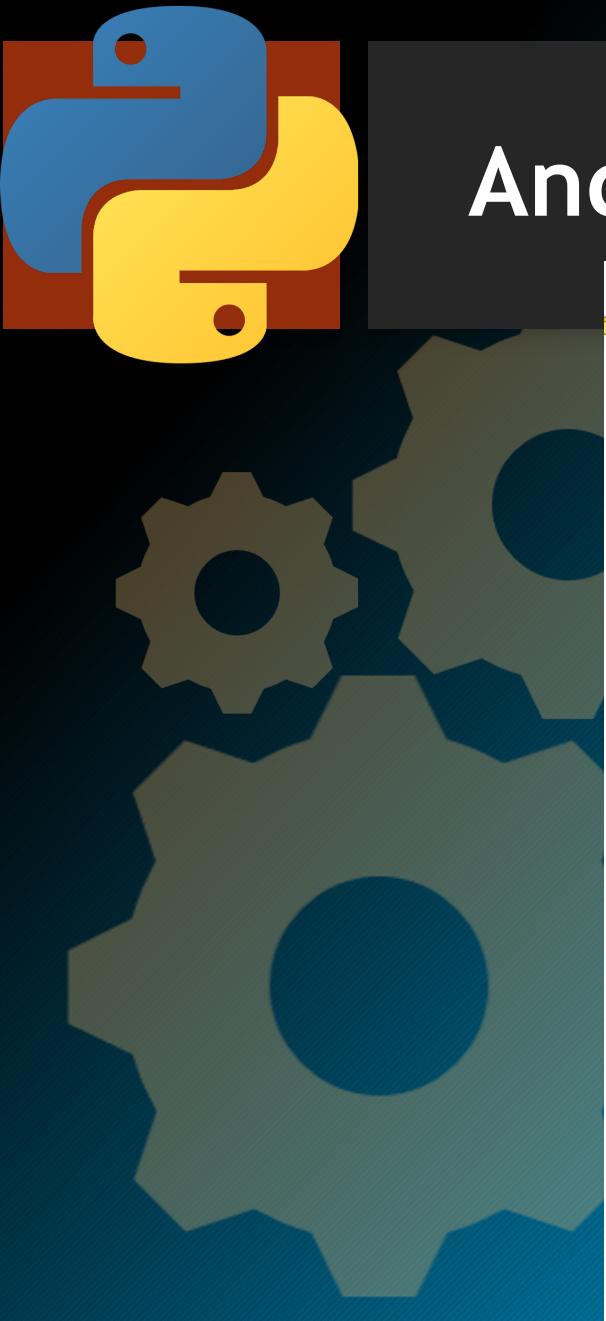




And why learn now? Cont..



<https://survey.stackoverflow.co/2022/#most-loved-dreaded-and-wanted-language-want>



And why learn now? Cont..

https://www.bing.com/search?pglt=43&q=most+demand+programming+language+...

Async Chuchuro Teaching Python Code himalaya Design Pattern DevOps Django only Entertainment

Microsoft Bing most demanded programming language 2024

SEARCH COPILOT IMAGES VIDEOS MAPS NEWS MORE TOOLS

About 1,780,000 results

The most demanded programming languages in 2024 are [1](#) [2](#):

- Python: With its versatility, ease of use, and strong community support, Python continues to dominate the world of data science and AI.
- JavaScript: As the foundation of web development, JavaScript remains an essential programming language with a wide range of applications beyond just the web.

Learn more:

[1 The 12 Most In-Demand Programming Languag... vegibit.com](#) [2 12 Most In-Demand Programming Languag... interviewbit.com](#)

[What are the benefits of Python?](#) [What are the challenges of JavaScript?](#) [How can I learn Python?](#)

Type a message...

Feedback

People also ask

Which programming languages will remain in high demand in 2024?

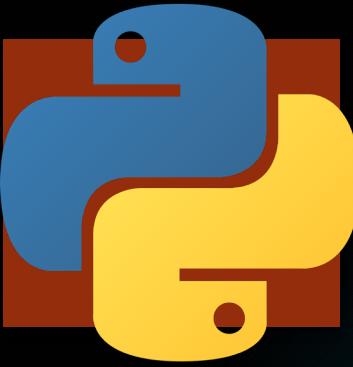
Some of the popular programming languages include **Python**, **JavaScript**, **Java**, **Swift** etc. Each language has its own unique strengths and applications.

Is Python a programming language worth learning in 2024?

Yes, Python is a programming language worth learning in 2024. Python is an easy-to-learn and versatile language.

Is Java learn in summa...

In summary, Java is a powerful and widely used programming language, known for its simplicity and readability. It is often used for developing enterprise-level applications, web-based systems, and mobile games.



What can I do with Python?

The Python Package Index (PyPI)

PyPI has over more than 160,000 packages. Here are some of its functionalities



Graphical User Interfaces



Scientific Computing



System Administration



Image Processing



Web Frameworks



Test Frameworks



Documentation



Databases



Multimedia



Networking



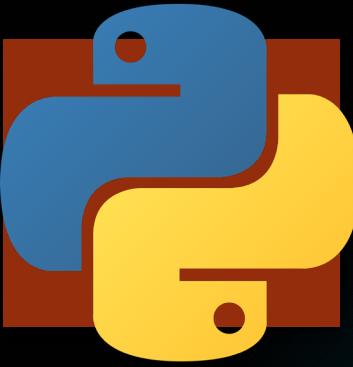
Automation



Text Processing

SOURCE:

[https://en.wikipedia.org/wiki/Python_\(programming_language\)](https://en.wikipedia.org/wiki/Python_(programming_language))



Who uses python ?

16 Famous Companies that uses PYTHON

Quora

edX®

IBM



yelp*

Pinterest



reddit



YouTube

YAHOO!

DISQUS

Eventbrite®

Google



UBER



Python Technical Strength(Features)

- Easy to CODE
- Easy to READ
- Free and Open Source
- Object-Oriented Language
- Large Standard Library
- GUI Programming Support
- Cross-platform Language
- Very Powerful
- Extensible
- Interpreted Language
- Extensible
- Expressive
- Dynamically Typed
- Databases Connectivity...



What after learning python?

DJANGO

Web
Development
& Frameworks

The Pygame logo icon, featuring a small cartoon character, is centered above the Game Development section.

Game
Development



Big
Data



Web Testing



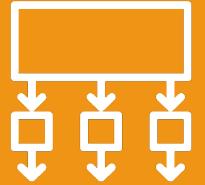
AI/
Data Science



Smart
Devices

...

What are your next steps?



Practice coding with python



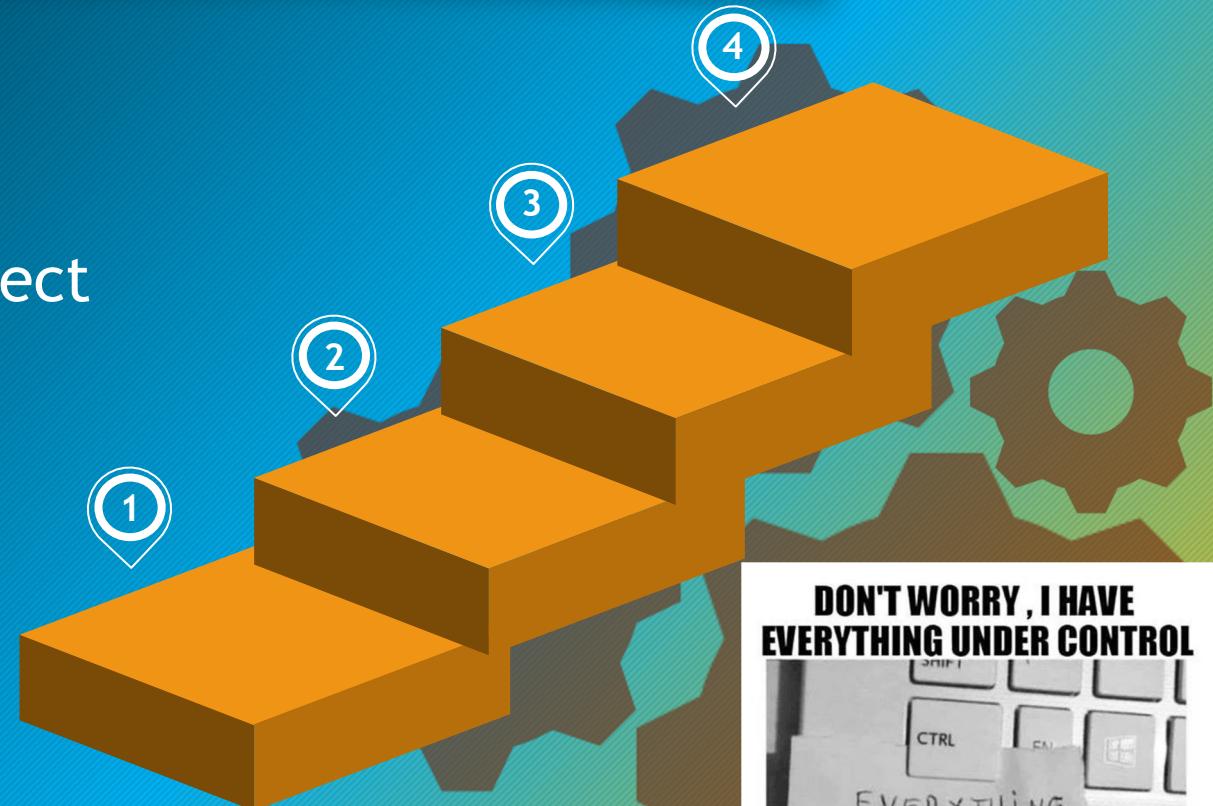
Think an idea for your next project

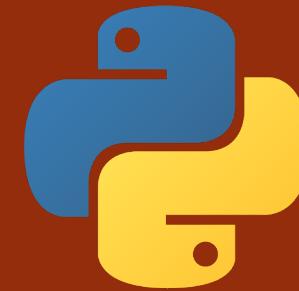


Try to solve small piece at time



Finish your project goal





Thank you