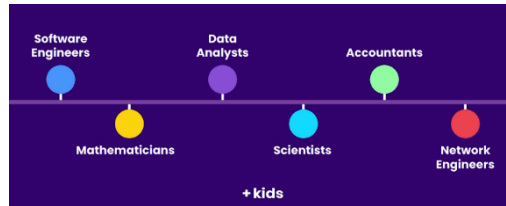


1. Getting Started

2. Fastest growing Language
3. Most Popular Language
4. With Python we can write programs fast in less time and with fewer lines of code
5. Ideal Programming language to learn first
6. Python is used by:

- Software Engineers
- Data Analysts
- Accountants
- Mathematicians
- Scientists
- Network Engineers
- + Kids 😊



```
C# str.Substring(0, 3)
JAVASCRIPT str.substr(0, 3)
PYTHON str[0:3]
```

7. Multi-purpose programming language

- AI/ML
- Hacking
- Software Testing
- Desktop Apps
- Mobile Apps
- Web Apps
- Data Analysis
- Automation



8. Salary of an average Python Developer is 115,835 USD\$ according to Indeed.com as per March 2018
9. Python is a high-level language which means it's easier for humans and the computer will take care of all the other complex tasks like memory management as we do in C++



10. Python is Cross-Platform language you can build apps that can run over Windows, Macintosh and Linux operating systems
11. Python has a huge community, you can get help from various mediums such as video tutorials, courses, books, blogs, articles and code snippets
12. Python has a large ecosystem of libraries, frameworks and tools. Whatever you are going to do, it's most likely that someone out there has already build that stuff. So, you don't need to re-invent the wheel or may get help
13. Python has been in the market for almost 20 Years



14. Python 2 is legacy version and it's official support ended back in 2020, python 3 is the python for future
15. Python interpreter is basically a program which executes python code
16. In Programming, an expression is a piece of code which produces a value E.g: $2 + 2 \Rightarrow 4$
17. Syntax is the grammar of computer programming languages
18. An IDE (Integrated Development Environment) is basically a code editor with some fancy productivity booster features
19. Debugging is finding and fixing bugs in a program
20. Auto-completion lets you complete the syntax of your code
21. Python programs have .py file extension
22. Putting brackets in python () means calling a function which means executing that function
23. For Built –in Functions we use a metaphor, think of a remote of your Television, on that remote you have plenty of different built-in, default functions like volume up-down, channel change, turn-off etc.
24. Always use double or single quotes when working with strings
25. Linting is analyzing code for potential errors before execution, linters are small utility extensions which perform linting
26. Code formatting is making code cleaner and readable same as we format our articles, newspapers etc.
27. Code Snippets are the re-usable blocks of code
28. Unit testing involves writing a bunch of tests for our code and we can run these tests in an automated fashion to make sure that our code is behaving correctly
29. PEPs are python enhancement proposals
30. PEP 8 is the most common and famous PEP used by python developers
31. PEP 8 is a style guide for code formatting, if you follow it your code will end up being consistent
32. A Style guide is a document which defines a bunch of rules for formatting code
33. Formatter Autopep 8 is the official PEP formatter tool that comes with the official python extension and is most commonly used by python developers
34. FormatOnSave is the feature we can use in VSCode to format our code according to the PEP 8 rules by formatter autopep 8 on saving the file
35. We can use the code runner extension in VSCode for running our code
36. Code Runner now comes built-in VSCode
37. Python >>> 1- Language 2- Implementation
38. Python Language is the specification that defines a set of rules and grammar for writing python code

