

GSET - Introduction to Computer Programming with Python

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Module 1 - Creating a Program

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- Learning to Program
- Choosing a Language
- Compiling and Linking Source
- Up Next ...

Learning to Program

Programming is a skill that requires a lifetime of learning, and now is a great time to start.

- New Problems
- New Languages
- New Hardware

Learning to Program

Why is computer programming useful?

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How do you become a computer programmer?

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Choosing a Language

Question: How many programming languages exist today?

- | | | |
|--------------|-----------|--------------|
| ▶ A.NET | ▶ Fortran | ▶ Java |
| ▶ A-0 System | ▶ C | ▶ JavaScript |
| ... | ▶ C- | ▶ MATLAB |
| ▶ B | ▶ C++ ... | ▶ Tex ... |
| ▶ Bash | ▶ Python | |

Answer:

Choosing a Language

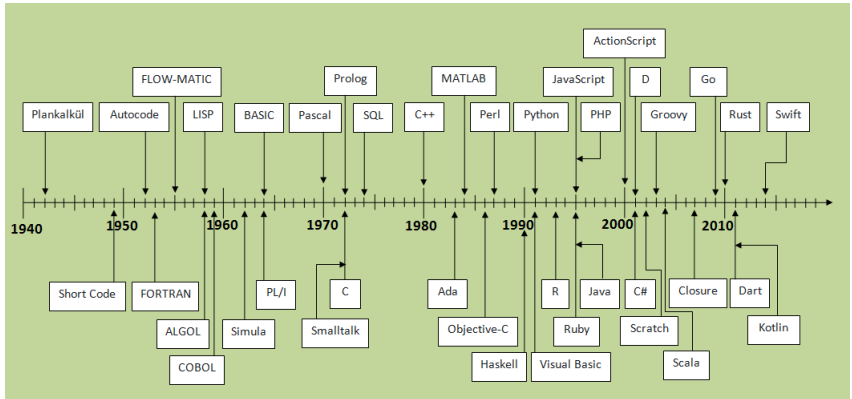


Image: [Java Concept Of The Day](#)

Choosing a Language

Modern Programming Languages

- C++
- Python
- JavaScript

Why is Python important for scientists and engineers?

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Compiling and Linking Source

How does the computer run your code?

Compiled	Interpreted

Compiling and Linking Source

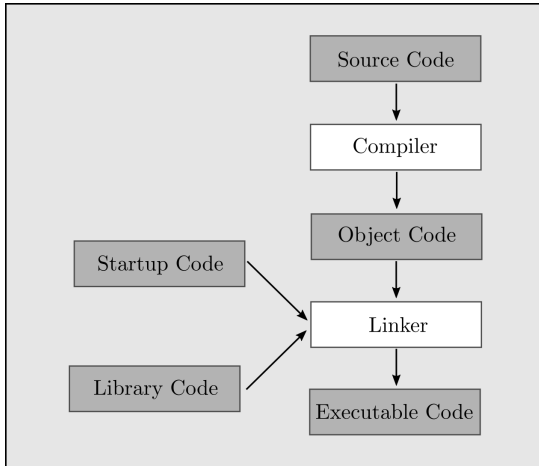


Image: T.Hill from C++ Primer Plus by Stephen Prata

Up Next ...

- **Next:** We are going to learn about Variables, Expressions and Assignment.