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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-
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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
- ► A-0 System
  ...
- ► B
- ► Bash

- ► Fortran
- ► C
- ► C–
- ► C++ ...
- ► Python

- ► Java
- ► JavaScript
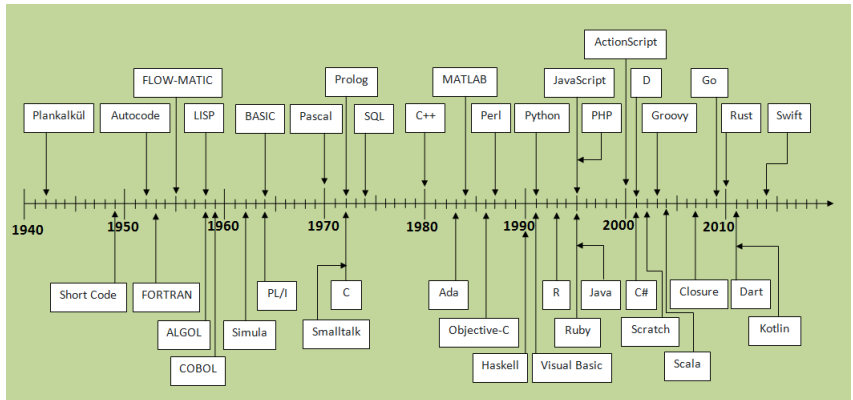- ► MATLAB
- ► Tex ...

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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-
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Compiling and Linking Source

How does the computer run your code?

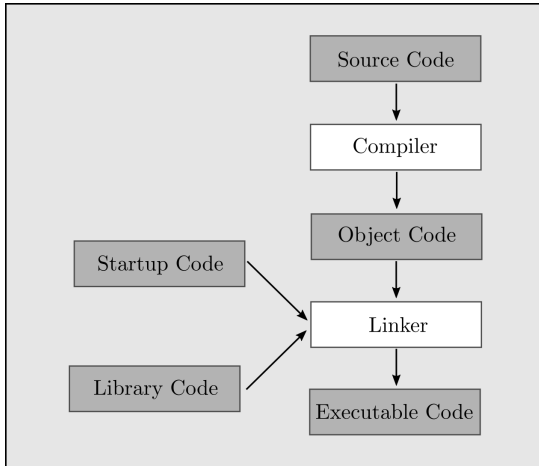| Compiled	Interpreted

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.