

Introduction to Python Programming

Python is a high-level, interpreted programming language known for its simplicity and readability. It was created by Guido van Rossum and first released in 1991.

Python's design philosophy emphasizes code readability with its notable use of significant whitespace. Its language constructs and object-oriented approach aim to help programmers write clear, logical code for small and large-scale projects.

Key Features:

- Simple and easy to learn syntax
- High-level language with dynamic typing
- Extensive standard library
- Cross-platform compatibility
- Large ecosystem of third-party packages

Python is widely used in web development, data science, artificial intelligence, machine learning, automation, and scientific computing. Its versatility makes it one of the most popular programming languages today.