

# The way of the program

## Algorithm

A general process for solving a category of problems.

## Bug

An error in a program.

## Byte code

An intermediate language between source code and object code. Many modern languages first compile source code into byte code and then interpret the byte code with a program called a virtual machine.

## Compile

To translate a program written in a high-level language into a low-level language all at once, in preparation for later execution.

## Debugging

The process of finding and removing any of the three kinds of programming errors.

## Exception

Another name for a runtime error.

## Executable

Another name for object code that is ready to be executed.

## Formal language

Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are formal languages.

## High-level language

A programming language like Python that is designed to be easy for humans to read and write.

## Interpret

To execute a program in a high-level language by translating it one line at a time.

## Low-level language

A programming language that is designed to be easy for a computer to execute; also called machine language or assembly language.

## Natural language

Any one of the languages that people speak that evolved naturally.

## Object code

The output of the compiler after it translates the program.

## Parse

To examine a program and analyze the syntactic structure.

## Portability

A property of a program that can run on more than one kind of computer.

## Print statement

An instruction that causes the Python interpreter to display a value on the screen.

## Problem solving

The process of formulating a problem, finding a solution, and expressing the solution.

## Program

a sequence of instructions that specifies to a computer actions and computations to be performed.

## Python shell

An interactive user interface to the Python interpreter. The user of a Python shell types commands at the prompt (>>>), and presses the return key to send these commands immediately to the interpreter for processing.

## Runtime error

An error that does not occur until the program has started to execute but that prevents the program from continuing.

## Script

A program stored in a file (usually one that will be interpreted).

## Semantic error

An error in a program that makes it do something other than what the programmer intended.

## Semantics

The meaning of a program.

## Source code

A program in a high-level language before being compiled.

## Syntax

The structure of a program.

## Syntax error

An error in a program that makes it impossible to parse — and therefore impossible to interpret.

## Token

One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language.

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