



Short History of Programming Languages

From Machine Code to Present Day



Short History of Programming Languages

1st Generation

- 1945: ENIAC Machine Code

2nd Generation

- 1952: IBM 701 Assembler

3rd Generation (High Level)

- 1957: FORTRAN
- 1958: LISP
- 1959: COBOL



Short History of Programming Languages

Procedural Programming

- 1958: FORTRAN
- 1959: COBOL
- 1964: BASIC
- 1970: Pascal
- 1972: C
- 1983: C++
- 1987: Perl
- 1991: Python



Short History of Programming Languages

Structured Programming

- No Jumps
- Blocks
- Control Structures
- Structured Data
- 1960: ALGOL



Short History of Programming Languages

Modular Programming

- Independent
- Interchangeable
- Single Aspect of Functionality
- 1960: ALGOL



Short History of Programming Languages

Object-Oriented Programming

- Encapsulation
- Inheritance
- Polymorphism
- 1967: Simula
- 1972: Smalltalk
- 1983: C++
- 1995: Java
- 2000: C#



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Functional Programming

- 1958: LISP
- 1975: Scheme
- 1986: Erlang
- 1990: Haskell
- 1995: JavaScript & Ruby
- 2000: C#
- 2003: Groovy & Scala
- 2007: Clojure