

# Why Are There So Many Programming Languages

## List of programming languages by type

is a list of notable programming languages, grouped by type. The groupings are overlapping; not mutually exclusive. A language can be listed in multiple...

## Functional programming

functional programming is a programming paradigm where programs are constructed by applying and composing functions. It is a declarative programming paradigm...

## C (programming language)

programming languages, with C compilers available for practically all modern computer architectures and operating systems. The book *The C Programming...*

## Python (programming language)

supports multiple programming paradigms, including structured (particularly procedural), object-oriented and functional programming. Guido van Rossum...

## Java (programming language)

are typically not available in traditional compiled languages. Java gained popularity shortly after its release, and has been a popular programming language...

## Zig (programming language)

Zig are in contrast to those of many other languages designed in the same time period, like Rust, Carbon, and Nim. Generally, these languages are more...

## Object-oriented programming

Object-oriented programming (OOP) is a programming paradigm based on the object – a software entity that encapsulates data and functionality. An OOP program consists...

## Lightweight programming language

Lightweight programming languages are programming languages designed to have small memory footprint, are easy to implement (important when porting a language to...

## Programming language implementation

computer programming, a programming language implementation is a system for executing computer programs. There are two general approaches to programming language...

## Rust (programming language)

compile time. Rust supports multiple programming paradigms. It was influenced by ideas from functional programming, including immutability, higher-order...

## **Lisp (programming language)**

a favored programming language for artificial intelligence (AI) research. As one of the earliest programming languages, Lisp pioneered many ideas in computer...

## **List of educational programming languages**

transitioning to more complex programming languages. Initially, machine code was the sole method of programming computers. Assembly language (ASM), introduced mnemonics...

## **Go (programming language)**

Go Programming Language Specification - the Go Programming Language&quot;. &quot;Why doesn't Go have &quot;implements&quot; declarations?&quot;. The Go Programming Language. Retrieved...

## **Raku (programming language)**

of programming languages. Formerly named Perl 6, it was renamed in October 2019. Raku introduces elements of many modern and historical languages. Compatibility...

## **Erlang (programming language)**

the programming language used to code WhatsApp. It is also the language of choice for Ejabberd – an XMPP messaging server. Elixir is a programming language...

## **Closure (computer programming)**

In programming languages, a closure, also lexical closure or function closure, is a technique for implementing lexically scoped name binding in a language...

## **Second-generation programming language**

second-generation programming language (2GL) is a generational way to categorize assembly languages. They belong to the low-level programming languages. The term...

## **APL (programming language)**

spreadsheets, functional programming, and computer math packages. It has also inspired several other programming languages. A mathematical notation for...

## **Elm (programming language)**

direct descendant of the Elm programming language. The two languages are similar, but not the same! &quot;Why Derw: an Elm-like language that compiles to TypeScript...

## **Interpreter (computing) (redirect from Interpreted (programming languages))**

an interpreter is a computer program that directly executes instructions written in a programming or scripting language, without requiring them previously...

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