Table of Contents

Programming Language

C++

C++ *(programminglanguage)*	
Full Name	C++
Short Name	C++
Description	C++ is a general-purpose programming language
Company	Bjarne Stroustrup
Web	No
Mobile	No
Enterprise	Yes
Embedded	Yes

*Snippet from [Wikipedia: **C++**](#)*

> **C++** (, pronounced "**C plus plus**" and sometimes abbreviated as **CPP**) is a high-level, general-purpose programming language created by Danish computer scientist Bjarne Stroustrup. First released in 1985 as an extension of the C programming language, it has since expanded significantly over time; as of 1997, C++ has object-oriented, generic, and functional features, in addition to facilities for low-level memory manipulation for making things like microcomputers or to make operating systems like Linux or Windows. It is almost always implemented as a compiled language, and many vendors provide C++ compilers, including the Free Software Foundation, LLVM, Microsoft, Intel, Embarcadero, Oracle, and IBM.
>
> C++ was designed with systems programming and embedded, resource-constrained software and large systems in mind, with performance, efficiency, and flexibility of use as its design highlights. C++ has also been found useful in many other contexts, with key strengths being software infrastructure and resource-constrained applications, including desktop applications, video games, servers (e.g., e-commerce, web search, or databases), and performance-critical applications (e.g., telephone switches or space probes).
>
> C++ is standardized by the International Organization for Standardization (ISO), with the latest standard version ratified and published by ISO in December 2020 as *ISO/IEC 14882:2020* (informally known as C++20). The C++ programming language was initially standardized in 1998 as *ISO/IEC 14882:1998*, which was then amended by the C++03, C++11, C++14, and C++17 standards. The current C++20 standard supersedes these with new features and an enlarged standard library. Before the initial standardization in 1998, C++ was developed by Stroustrup at Bell Labs since 1979 as an extension of the C language; he wanted an efficient and flexible language similar to C that also provided high-level features for program organization. Since 2012, C++ has been on a three-year release schedule with C++23 as the next planned standard.

GitHub Topics

- https://github.com/topics/cpp

C++ is a popular and widely used mid-level language. It was designed as an extension of the C language.

Hello World

```cpp
#include <iostream>

int main(){
    std::cout << "Hello, World!" << std::endl;
    return 0;
}
```

Source: Wikibooks

- Object-Oriented Programming (OOP)
- Pointers
- Classes
- Templates
- Inheritance
- Polymorphism
- Standard Template Library (STL)
- Data Types
- Operators
- Functions
- Control Structures
- File Input/Output (I/O)
- Memory Management
- Exception Handling
- Algorithms
- Containers
- Headers
- Preprocessor Directives
- Multithreading

See also: Programming Languages

programminglanguage

From:

https://almbok.com/ - **ALMBoK.com**

Permanent link:

https://almbok.com/dev/c_plus_plus

Last update: **2023/05/01 17:17**