

## PROGRAMMING LANGUAGE C++

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C++ was written by Bjarne Stroustrup at Bell Labs during 1983-1985. C++ is an extension of C. Prior to 1983, Bjarne Stroustrup added functions to C and formed what he called "C with Classes". He had combined the Simula's use of classes and object-oriented functions with the power and efficiency of C. The term C++ was first used in 1983.

The title C++ was invented by Rick Massitti. The name indicates the evolutionary nature of the transition to it from C. "+ +" (read: double plus) means an operation of increment in C.

C++ has been initially designed to make writing good programs easier for the individual programmer.

C++ has been still developing in all directions in order to cope with the difficulties faced by users, as well as in the author's discussions with his friends and colleagues.

In C++ the principles of object-oriented programming are fully supported, including the three pillars on which it stands: encapsulation, inheritance and polymorphism.

Encapsulation in C++ is supported through the creation of non-standard (custom) data types, called classes.

C++ supports inheritance. This means that you can declare a new data type (class) that is an extension of the existing one.

Polymorphism is the most important and widely used concept in object oriented programming. Some of the widely used technologies and libraries like COM, MFC etc. have polymorphism as their foundation.

C++ is used to develop operating systems, such as: Kernel UNIX, Windows, UNIX like systems and WinAPI (Windows Application Programming Interface). It is used to create new programming languages. C++ is applied in training.

C++ is now considered the dominant language used for developing commercial products, 90% of games are written in C++ using DirectX.

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