

What is the basic C ++ programming language?

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C ++ is considered as **middle-level language** , when it combines features and features of high and low-level languages.

C ++ was developed by Bjarne Stroustrup in 1979 at Bell Labs in Murray Hill, New Jersey, as an advanced version of the C language and with the first name "C with Grades", but later renamed C ++ in 1983.

C ++ is a Superset of C, and any C program is a C ++ program.

Note : When saying a programming language is static type when type checking is done in compile-time, not run-time.

Object-oriented programming

C ++ fully supports object-oriented programming, including 4 core features of object-oriented programming:

1. Encapsulation
2. Data hiding (Data hiding)
3. Inheritance
4. Polymorphism

Letter of standard C ++ (C ++ Standard Library)

Standard C ++ consists of 3 important parts:

Core Language provides all blocks including variables, data types (data type) and literals, .

C ++ standard library (C ++ Standard Library) provides a diverse set of functions for manipulating files and strings, .

Standard Template Library (STL) provides a diverse set of methods for manipulating data structures, .

ANSI Standard

ANSI Standard ensures that C ++ is portable, ie: the code you write for the Microsoft compiler will be compiled without error when using a compiler on Mac, UNIX, and Windows box or an Alpha.

ANSI Standard has existed for a long time, and all C ++ compiler support ANSI Standard.

How to study C ++?

The most important thing when learning C ++ is the focus on concepts.

The goal of learning a programming language is to become a better programmer, that is, to design and implement new systems more efficiently, or to modify old programs.

C ++ supports a variety of programming styles. You can write in Fortran, C, Smalltalk, . in any language. Each style can achieve its goal effectively while maintaining runtime and space effectively.

Domain used by C ++

C ++ is used by thousands of developers in every basic application area.

C ++ is commonly used to write device drivers and other software that rely on direct hardware operation under realtime constraints.

C ++ is widely used for training and research.

Any two who have used Apple Macintosh or a Windows-based PC are indirectly using C ++, because the User Interface of these systems is written in C ++.

According to Tutorialspoint

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