

C++ Syntax

Topics : [C++](#)

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Here's an overview of the basic syntax of C++:

1. **Comments:** In C++, you can add comments to your code to provide explanations and make it easier to read. Single-line comments start with `//`, while multi-line comments start with `/*` and end with `*/`.
2. **Variables:** Variables are used to store data in a program. In C++, you need to declare a variable before you can use it. The syntax for declaring a variable is: `data_type variable_name;`. For example: `int age;`
3. **Data Types:** C++ supports several data types, including integers, floating-point numbers, characters, and strings. You can also define your own custom data types using classes and structures.
4. **Operators:** C++ supports a wide range of operators for performing operations on variables and data. These include arithmetic operators (`+`, `-`, `*`, `/`), comparison operators (`==`, `!=`, `<`, `>`), logical operators (`&&`, `||`, `!`), and more.
5. **Control Structures:** C++ includes several control structures that allow you to control the flow of your program. These include if/else statements, loops (for, while, do-while), and switch statements.
6. **Functions:** Functions are used to group related code together and make it easier to reuse. In C++, you define a function using the syntax: `return_type function_name(parameters) { code }`. For example: `int add(int a, int b) { return a + b; }`.
7. **Classes:** Classes are used to define custom data types in C++. They allow you to group data and functions together in a single unit. The syntax for defining a class is: `class class_name { data members and member functions };`