

Hello World

New Line

The escape sequence \n (backward slash and the letter n) generates a new line in a text string.

Program Structure

The program runs line by line, from top to bottom:

- The first line instructs the compiler to locate the file that contains a library called iostream. This library contains code that allows for input and output.
- The main() function houses all the instructions for the program.

Basic Output

std::cout is the "character output stream" and it is used to write to the standard output. It is followed by the symbols << and the value to be displayed.

Compile Command

Using GNU, the compilation command is g++ followed by the file name. Here, the name of the source file is **hello.cpp**.

Execute Command

The execution command is ./ followed by the file name. Here, the name of the executable file is **a.out**.

Single-line Comments

Single-line comments are created using two consecutive forward slashes. The compiler ignores any text after // on the same line.

```
std::cout << "Hello\n";
std::cout << "Hello again\n";</pre>
```

```
#include <iostream>

int main() {

   std::cout << "1\n";
   std::cout << "2\n";
   std::cout << "3\n";
}</pre>
```

```
std::cout << "Hello World!\n";</pre>
```

```
g++ hello.cpp
```

```
./a.out
```

```
// This line will denote a comment in C++
```

Multi-line Comments

<u>code</u> <u>c</u>ademy

Multi-line comments are created using /* to begin the comment, and */ to end the comment. The compiler ignores any text in between.

/*
This is all commented out.
None of it is going to run!
*/

/