

# C++: Questions about using namespace std and cout [duplicate]

Asked 6 years, 10 months ago   Active 6 years ago   Viewed 22k times

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[Why is "using namespace std;" considered bad practice?](#) (36 answers)

Closed 6 years ago.



2

Why do I need to type in `using namespace std;` in order to be able to use `cout` and `endl` ? Also what are these called; is `cout` a function?



Is there `cout` in C? I heard it was implemented in C++ because it is better in many ways.

c++

c

cout

edited Mar 11 '13 at 19:36



joce

8,247

15

47

66

asked Mar 11 '13 at 19:28



Justin Liang

1,168

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12

33

5 [stackoverflow.com/questions/388242/...](http://stackoverflow.com/questions/388242/...) – Benjamin Lindley Mar 11 '13 at 19:31

1 `cout` is not a C library and there are many who would argue with the notion that it is "better in many ways." :- ) – acarlow Mar 11 '13 at 19:39

## 5 Answers



10



`cout` is a global object defined in the `std` namespace, and `endl` is a (stream manipulator) function also defined in the `std` namespace.

If you take no action to import their names into the global namespace, you won't be able to refer to them with the unqualified identifiers `cout` and `endl`. You have to use the fully qualified names:



```
std::cout << "Hello, World!" << std::endl;
```



Basically, what `using namespace std` does is to inject all the names of entities that exist in the `std` namespace into the global namespace:

```
using namespace std;
cout << "Hello, World!" << endl;
```

However, keep in mind that have such a `using` directive in the global namespace is a **BAD** programming practice, which will almost certainly lead to evil **name clashes**.

If you *really* need to use it (e.g. if a function of yours is using many functions defined in the `std`



```
void my_function_using_a_lot_of_stuff_from_std()
{
    using namespace std;
    cout << "Hello, World!" << endl;

    // Other instructions using entities from the std namespace...
}
```

Much better, as long as this is practical, is to use the following, less invasive *using declarations*, which will *selectively* import only the names you specify:

```
using std::cout;
using std::endl;

cout << "Hello, World!" << endl;
```

answered Mar 11 '13 at 19:33



[Andy Prowl](#)

107k 17 336 423



5



**No!** You do not need `using namespace std`, and [you shouldn't use it](#). Use fully qualified names `std::cout` and `std::endl`, or, in a small scope,

```
using std::cout;
using std::endl;
```



As for the other questions, `std::cout` is not a function. It is a kind of global output stream object bound to the standard output. And there isn't an `std::cout` in C.

edited May 23 '17 at 12:26



Community ♦

1 1

answered Mar 11 '13 at 19:29



[juanchopanza](#)

199k 25 329 430

If you don't have any other namespace, or the other namespaces have no way to interfere with the `std` namespace, it is ok to do it – [Mihai Bujanca](#) Mar 11 '13 at 19:33

@BujancaMihai no, it isn't. – [juanchopanza](#) Mar 11 '13 at 19:33

why not? Say you don't have any other namespace used. Why shouldn't you use `using namespace std`; – [Mihai Bujanca](#) Mar 11 '13 at 19:34

2 @BujancaMihai because you may not know all the names that are under `std::`, and even if you do, you cannot know the names that will appear in future versions of the C++ standard library. – [juanchopanza](#) Mar 11 '13 at 19:35

@BujancaMihai [ideone.com/Xpgadi](http://ideone.com/Xpgadi) – [Mooing Duck](#) Mar 11 '13 at 20:47



```
using namespace std;
```

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brings the names in a collection of names (called a namespace) into the current scope. Most

