# C# Syntax

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## C# Syntax

In the previous chapter, we created a C# file called Program.cs, and we used the following code to print "Hello World" to the screen:

#### **Program.cs**

using System;

namespace HelloWorld

{

class Program

{

static void Main(string[] args)

{

Console.WriteLine("Hello World!");

}

}

}

Result:

Hello World!

[Try it Yourself »](https://www.w3schools.com/cs/trycs.php?filename=demo_helloworld)

### **Example explained**

**Line 1:** using System means that we can use classes from the System namespace.

**Line 2:** A blank line. C# ignores white space. However, multiple lines makes the code more readable.

**Line 3:** namespace is used to organize your code, and it is a container for classes and other namespaces.

**Line 4:** The curly braces {} marks the beginning and the end of a block of code.

**Line 5:** class is a container for data and methods, which brings functionality to your program. Every line of code that runs in C# must be inside a class. In our example, we named the class Program.

Don't worry if you don't understand how using System, namespace and class works. Just think of it as something that (almost) always appears in your program, and that you will learn more about them in a later chapter.

**Line 7:** Another thing that always appear in a C# program, is the Main method. Any code inside its curly brackets {} will be executed. You don't have to understand the keywords before and after Main. You will get to know them bit by bit while reading this tutorial.

**Line 9:** Console is a class of the System namespace, which has a WriteLine() method that is used to output/print text. In our example it will output "Hello World!".

If you omit the using System line, you would have to write System.Console.WriteLine() to print/output text.

**Note:** Every C# statement ends with a semicolon ;.

**Note:** C# is case-sensitive: "MyClass" and "myclass" has different meaning.

**Note:** Unlike [Java](https://www.w3schools.com/java/default.asp), the name of the C# file does not have to match the class name, but they often do (for better organization). When saving the file, save it using a proper name and add ".cs" to the end of the filename. To run the example above on your computer, make sure that C# is properly installed: Go to the [Get Started Chapter](https://www.w3schools.com/cs/cs_getstarted.php) for how to install C#. The output should be:

Hello World!