

Mono

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Mono Basics

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After you get Mono installed, it's probably a good idea to run a quick Hello World program to make sure everything is set up properly. That way you'll know that your Mono is working before you try writing or running a more complex application.

Console Hello World

To test the most basic functionality available, copy the following code into a file called hello.cs.

```
using System;

public class HelloWorld
{
    static public void Main ()
    {
        Console.WriteLine ("Hello Mono World");
    }
}
```

To compile, use gmcs:

```
gmcs hello.cs
```

Either compiler will create "hello.exe", which you can run using:

```
mono hello.exe
```

The program should run and output:

```
Hello Mono World
```

Gtk# Hello World

The following program tests writing a Gtk# application.

```
using Gtk;  
using System;  
  
class Hello {  
    static void Main()  
    {  
        Application.Init ();  
  
        Window window = new Window ("helloworld");  
        window.Show();  
  
        Application.Run ();  
    }  
}
```

To compile, use gmcs with the -pkg option to tell the compiler to pull in the Gtk# libraries:

```
gmcs hello.cs -pkg:gtk-sharp-2.0
```

The compiler will create "hello.exe", which you can run using:

```
mono hello.exe
```

Winforms Hello World

The following program tests writing a Winforms application.

```
using System;
using System.Windows.Forms;

public class HelloWorld : Form
{
    static public void Main ()
    {
        Application.Run (new HelloWorld ());
    }

    public HelloWorld ()
    {
        Text = "Hello Mono World";
    }
}
```

To compile, use `gmcs` with the `-pkg` option to tell the compiler to pull in the Winforms libraries:

```
gmcs hello.cs -pkg:dotnet
```

Either compiler will create "hello.exe", which you can run using:

```
mono hello.exe
```

ASP.Net Hello World

Create a text file with the extension `.aspx` and put on it:

```
<%@ Page Language="C#" %>
<html>
<head>
    <title>Sample Calendar</title>
</head>
<asp:calendar showtitle="true" runat="server">
</asp:calendar>
```

Then run the `xsp2` command from that directory:

```
$ xsp2
```

Use a web browser to contact `http://localhost:8080/filename.aspx`

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