Module



```
using System;

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

What is C#?

General

Statically typed

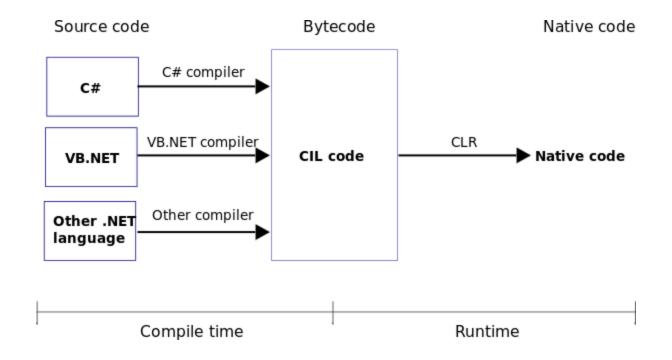
Imperative, declarative, functional

Objectoriented

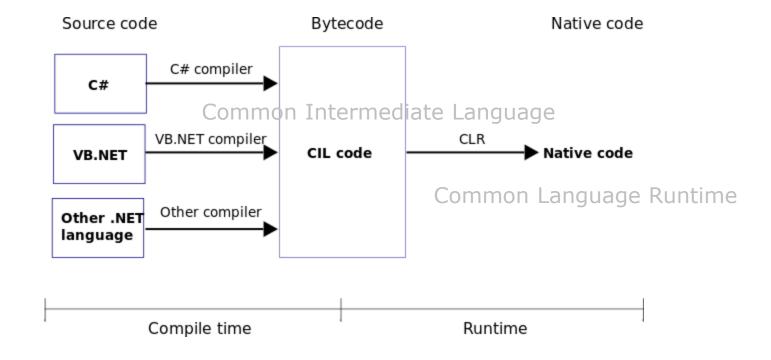
Common

Language

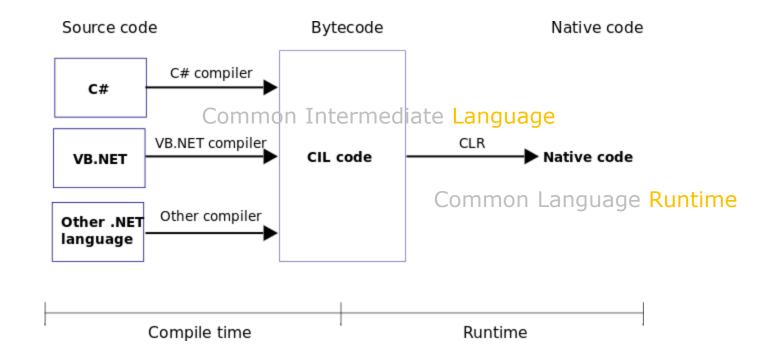
Infrastructure



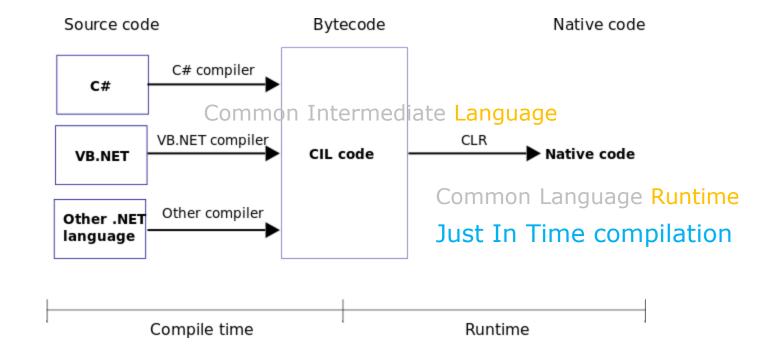
Common Language Infrastructure



Common Language Infrastructure



Common Language Infrastructure



```
.method private hidebysig static void Main(string[] args) cil managed
   .entrypoint
   .maxstack 2
   .locals init (int32 V 0,
                 int32 V_1)
             ldc.i4.2
             stloc.0
             br.s
                       IL 001f
   IL 0004: ldc.i4.2
             stloc.1
             br.s
                       IL_0011
   IL_0008: ldloc.0
             ldloc.1
             brfalse.s IL_001b
             ldloc.1
             ldc.i4.1
             add
             stloc.1
   IL_0011: ldloc.1
             ldloc.0
             blt.s
                        IL_0008
             ldloc.0
             call
                       void [mscorlib]System.Console::WriteLine(int32)
   IL_001b: ldloc.0
             ldc.i4.1
             add
             stloc.0
   IL 001f: ldloc.0
             ldc.i4
                        0x3e8
             blt.s
                       IL_0004
             ret
```

Why?

General

Console

Mobile

Web

Desktop

Game

Services

When? Who?

2000





C# 11

Version	Date	.NET	Visual Studio
C# 6	2015	.NET Core 1	VS 2015
C# 7	2017	.NET Core 2	VS 2017
C# 8	2019	.NET Core 3	VS 2019
C# 9	2020	.NET 5	VS 2019
C# 10	2021	.NET 6	VS 2022
C# 11	2022	.NET 7	VS 2022



