

## RSCG nr 12 : AutoCtor

### Info

Nuget : <https://www.nuget.org/packages/AutoCtor/>

You can find more details at :

Author :Cameron MacFarland

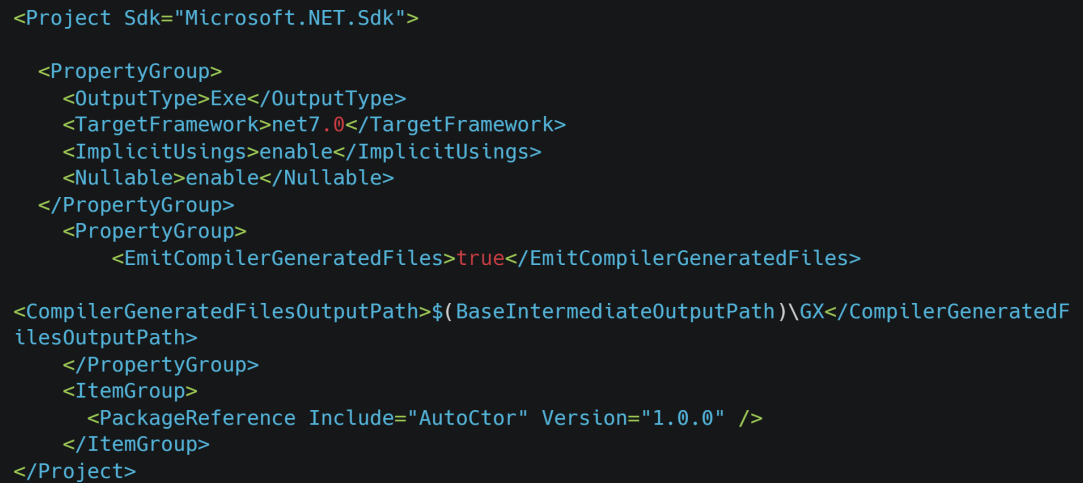
Source : <https://github.com/distantcam/AutoCtor>

### About

Generate constructor from non-initialized fields

### How to use

Add reference to the AutoCtor in the csproj



```
<Project Sdk="Microsoft.NET.Sdk">

  <PropertyGroup>
    <OutputType>Exe</OutputType>
    <TargetFramework>net7.0</TargetFramework>
    <ImplicitUsings>enable</ImplicitUsings>
    <Nullable>enable</Nullable>
  </PropertyGroup>
  <PropertyGroup>
    <EmitCompilerGeneratedFiles>true</EmitCompilerGeneratedFiles>
  </PropertyGroup>
  <CompilerGeneratedFilesOutputPath>$(BaseIntermediateOutputPath)\GX</CompilerGeneratedFilesOutputPath>
  </PropertyGroup>
  <ItemGroup>
    <PackageReference Include="AutoCtor" Version="1.0.0" />
  </ItemGroup>
</Project>
```

This was for me the starting code

I have **coded** the file Program.cs



```
•// See https://aka.ms/new-console-template for more information  
using AutoCtorDemo;  
  
Console.WriteLine("Hello, World!");  
  
var p = new Person("Andrei", "Ignat");
```

---

I have **coded** the file Person.cs



```
•using AutoCtor;  
  
namespace AutoCtorDemo;  
  
[AutoConstruct]  
internal partial class Person  
{  
    private readonly string FirstName;  
    private readonly string? LastName;  
  
}
```

---

And here are the *generated* files

The file *generated* is AutoConstructAttribute.g.cs

```
•//-----  
// <auto-generated>  
//   This code was generated by https://github.com/distantcam/AutoCtor  
//  
//   Changes to this file may cause incorrect behavior and will be lost if  
//   the code is regenerated.  
// </auto-generated>  
//-----  
  
#if AUTOCTOR_EMBED_ATTRIBUTES  
namespace AutoCtor  
{  
    [System.Runtime.CompilerServices.CompilerGenerated]  
    [System.AttributeUsage(AttributeTargets.Class | AttributeTargets.Struct,  
AllowMultiple = false, Inherited = false)]  
    [System.Diagnostics.Conditional("AUTOCTOR_USAGES")]  
    internal sealed class AutoConstructAttribute : System.Attribute  
    {  
        [System.Runtime.CompilerServices.CompilerGenerated]  
        public AutoConstructAttribute()  
        {  
        }  
    }  
}  
#endif
```

The file *generated* is AutoCtorDemo.Person.g.cs

```
•//-----  
// <auto-generated>  
//   This code was generated by https://github.com/distantcam/AutoCtor  
//  
//   Changes to this file may cause incorrect behavior and will be lost if  
//   the code is regenerated.  
// </auto-generated>  
//-----  
  
namespace AutoCtorDemo  
{  
    partial class Person  
    {  
        public Person(string FirstName, string LastName)  
        {  
            this.FirstName = FirstName;  
            this.LastName = LastName;  
        }  
    }  
}
```

You can download the code and this page as pdf from [https://ignatandrei.github.io/RSCG\\_Examples/v2/docs/AutoCtor](https://ignatandrei.github.io/RSCG_Examples/v2/docs/AutoCtor)

You can see the whole list at [https://ignatandrei.github.io/RSCG\\_Examples/v2/docs/List-of-RSCG](https://ignatandrei.github.io/RSCG_Examples/v2/docs/List-of-RSCG)