RSCG nr 20 : NetEscapades.EnumGenerators

Info

Nuget: https://www.nuget.org/packages/NetEscapades.EnumGenerators/

You can find more details at : $https://and rewlock.net/netes capades-enumgene \ rators-a-source-generator-for-enum-performance/ \\$

Author: Andrew Lock

Source: https://github.com/andrewlock/NetEscapades.EnumGenerators

About

How to use

Add reference to the NetEscapades. EnumGenerators in the csproj

```
• • •
<Project Sdk="Microsoft.NET.Sdk">
 <PropertyGroup>
   <0utputType>Exe
    <TargetFramework>net7.0/TargetFramework>
   <ImplicitUsings>enable</ImplicitUsings>
   <Nullable>enable
  </PropertyGroup>
  <ItemGroup>
   <PackageReference Include="NetEscapades.EnumGenerators" Version="1.0.0-beta08"</pre>
                     OutputItemType="Analyzer" ReferenceOutputAssembly="false"
                     PrivateAssets="all" ExcludeAssets="comile; runtime"
 </ItemGroup>
 <PropertyGroup>
       <EmitCompilerGeneratedFiles>true</EmitCompilerGeneratedFiles>
<CompilerGeneratedFilesOutputPath>$(BaseIntermediateOutputPath)\GX</CompilerGenerated</pre>
FilesOutputPath>
   </PropertyGroup>
</Project>
```

This was for me the starting code

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

I have ${f coded}$ the file InstallType.cs

```
••••
•using NetEscapades.EnumGenerators;
using System.ComponentModel.DataAnnotations;
using System.Xml.Linq;

[EnumExtensions]
internal enum InstallType
{
    [Display(Name = $"Please use one of the flags of {nameof(InstallType)}")]
    None= 0,
    ShowGUI,
    ShowNoGui,
}
```

I have ${f coded}$ the file AddToCoffee.cs

```
• • • • • • • • using NetEscapades.EnumGenerators;

[EnumExtensions]
[Flags]
internal enum AddToCoffee
{
    None= 0,
    Milk=1,
    Sugar=2,
    Biscuit=4
}
```

And here are the generated files

The file generated is AddToCoffeeExtensions_EnumExtensions.g.cs

The file generated is EnumExtensionsAttribute.g.cs

```
#nullable enable
#if NETESCAPADES_ENUMGENERATORS_EMBED_ATTRIBUTES
namespace NetEscapades.EnumGenerators
    [global::System.AttributeUsage(global::System.AttributeTargets.Enum)]
   [global::System.Diagnostics.Conditional("NETESCAPADES_ENUMGENERATORS_USAGES")]
#if NET5_0_OR_GREATER
    [global::System.Diagnostics.CodeAnalysis.ExcludeFromCodeCoverage(Justification =
"Generated by the NetEscapades.EnumGenerators source generator.")]
   [global::System.Diagnostics.CodeAnalysis.ExcludeFromCodeCoverage]
#endif
   public class EnumExtensionsAttribute : global::System.Attribute
       public string? ExtensionClassNamespace { get; set; }
       public string? ExtensionClassName { get; set; }
```

The file generated is InstallTypeExtensions_EnumExtensions.g.cs

You can download the code and this page as pdf from https://ignatandrei.github.io/RSCG_Examples/v2/docs/NetEscapades.EnumGenerators

You can see the whole list at https://ignatandrei.github.io/RSCG_Examples/v2/docs/List-of-RSCG