RSCG nr 1: ThisAssembly

Info

Nuget: https://www.nuget.org/packages/ThisAssembly

You can find more details at: https://www.clarius.org/ThisAssembly/

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Source: https://github.com/devlooped/ThisAssembly

About

The ThisAssembly.Info allows you access to the Assembly Information as constants, instead of going to reflection each time.I found useful to see the assembly version right away in any project that I have.

How to use

Add reference to the ThisAssembly in the csproj

```
• • •
<Project Sdk="Microsoft.NET.Sdk">
   <PropertyGroup>
       <0utputType>Exe
       <TargetFramework>netcoreapp7.0/TargetFramework>
   </PropertyGroup>
   <PropertyGroup>
       <EmitCompilerGeneratedFiles>true</EmitCompilerGeneratedFiles>
<CompilerGeneratedFilesOutputPath>$(BaseIntermediateOutputPath)\GX</CompilerGeneratedF</pre>
ilesOutputPath>
    </PropertyGroup>
   <PropertyGroup>
       <Version>2023.5.7.800
   </PropertyGroup>
   <ItemGroup>
        <PackageReference Include="ThisAssembly" Version="1.2.14"</pre>
OutputItemType="Analyzer" ReferenceOutputAssembly="false">
           <PrivateAssets>all</privateAssets>
           <IncludeAssets>runtime; build; native; contentfiles; analyzers;
buildtransitive</IncludeAssets>
       </PackageReference>
   </ItemGroup>
```

This was for me the starting code

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

```
• • • • • • • var strVersion = ThisAssembly.Info.Version;
System.Console.WriteLine(strVersion);
```

And here are the generated files

The file $\it generated$ is ThisAssembly. AssemblyInfo.g.cs

```
using System.CodeDom.Compiler;
using System.Runtime.CompilerServices;
partial class ThisAssembly
    [CompilerGenerated]
    public static partial class Info
        public const string Company = @"RSCG_Version";
        public const string Configuration = @"Debug";
        public const string FileVersion = @"2023.5.7.800";
        public const string InformationalVersion = @"2023.5.7.800";
        public const string Product = @"RSCG_Version";
        public const string Title = @"RSCG_Version";
        public const string Version = @"2023.5.7.800";
```

The file generated is Branch.g.cs

The file generated is Commit.g.cs

The file generated is Root.g.cs

The file generated is Sha.g.cs

The file generated is Url.g.cs

The file generated is ThisAssembly.Metadata.g.cs

The file generated is ThisAssembly.Property.g.cs

```
using System.CodeDom.Compiler;
using System.Runtime.CompilerServices;
partial class ThisAssembly
    [GeneratedCode("ThisAssembly.Project", "1.2.14")]
    [CompilerGenerated]
    public static partial class Project
        /// <summary>AssemblyName = RSCG_Version</summary>
public const string AssemblyName = @"RSCG_Version";
        public const string RootNamespace = @"RSCG_Version";
        public const string TargetFrameworkIdentifier = @".NETCoreApp";
        public const string TargetFrameworkMoniker = @".NETCoreApp,Version=v7.0";
        public const string TargetFrameworkVersion = @"v7.0";
```

The file generated is This Assembly. Resources. Embedded Resource.cs

```
using System;
using System.IO;
using System.Linq;
using System.Reflection;
static class EmbeddedResource
     static readonly string baseDir =
Path.GetDirectoryName(Assembly.GetExecutingAssembly().Location) ?? "";
     public static string GetContent(string relativePath)
           using var stream = GetStream(relativePath);
           using var reader = new StreamReader(stream);
           return reader.ReadToEnd();
     public static byte[] GetBytes(string relativePath)
           using var stream = GetStream(relativePath);
var bytes = new byte[stream.Length];
      public static Stream GetStream(string relativePath)
           var filePath = Path.Combine(baseDir, Path.GetFileName(relativePath));
if (File.Exists(filePath))
          var resourceName = relativePath
   .TrimStart('.')
   .Replace('/', '.')
   .Replace('\\', '.');
           var manifestResourceName = Assembly.GetExecutingAssembly()
    .GetManifestResourceNames().FirstOrDefault(x => x.EndsWith(resourceName));
throw new InvalidOperationException($"Did not find required resource
ending in '{resourceName}' in assembly '{baseName}'.");
 Assembly.GetExecutingAssembly().GetManifestResourceStream(manifestResourceName) ??
throw new InvalidOperationException($"Did not find required resource '{manifestResourceName}' in assembly '{baseName}'.");
```

The file generated is ThisAssembly.Strings.g.cs

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

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