## RSCG nr 15: RazorBlade

## Info

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

You can find more details at: https://github.com/ltrzesniewski/RazorBlade

Author: Lucas Trzesniewski

Source: https://github.com/ltrzesniewski/RazorBlade

## About

Fast templating with Razor syntaxDo not forget to put into AdditionalFiles section of csproj file

## How to use

Add reference to the RazorBlade in the csproj

```
• • •
<Project Sdk="Microsoft.NET.Sdk">
   <PropertyGroup>
        <0utputType>Exe
        <TargetFramework>net7.0/TargetFramework>
        <ImplicitUsings>enable</ImplicitUsings>
        <Nullable>enable</Nullable>
   </PropertyGroup>
   <ItemGroup>
        <PackageReference Include="RazorBlade" Version="0.4.3" PrivateAssets="all"</pre>
ReferenceOutputAssembly="false" OutputItemType="Analyzer" />
   </ItemGroup>
    <ItemGroup>
        <AdditionalFiles Include="PersonDisplay.cshtml" />
   </ItemGroup>
   <PropertyGroup>
        <EmitCompilerGeneratedFiles>true</EmitCompilerGeneratedFiles>
<CompilerGeneratedFilesOutputPath>$(BaseIntermediateOutputPath)\GX</CompilerGeneratedF</p>
ilesOutputPath>
   </PropertyGroup>
</Project>
```

This was for me the starting code

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

```
• • • • • • • • using RazorBladeDemo;

Console.WriteLine("Hello, World!");
Person p = new();
p.FirstName= "Andrei";
p.LastName = "Ignat";

var template = new PersonDisplay(p);
var result = template.Render();
Console.WriteLine(result);
```

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

I have  $\mathbf{coded}$  the file PersonDisplay.cshtml

```
@using RazorBladeDemo;
@inherits RazorBlade.HtmlTemplate<Person>;
This is the @Model.FirstName @Model.LastName
<br />
This should be full name of @Model.FullName()
```

And here are the generated files

The file generated is Attributes.g.cs

```
\bullet \bullet \bullet
#nullable enable
using System;
namespace RazorBlade.Support;
[AttributeUsage(AttributeTargets.Constructor)]
internal sealed class TemplateConstructorAttribute : Attribute
[AttributeUsage(AttributeTargets.Method)]
internal sealed class ConditionalOnAsyncAttribute : Attribute
    public string? Message { get; set; }
    public ConditionalOnAsyncAttribute(bool async)
```

The file generated is HtmlHelper.g.cs

```
using System;
using System.Diagnostics.CodeAnalysis;
using System.Text;
 // <,summary>
SuppressMessage("ReSharper", "MemberCanBeMadeStatic.Global")]
.nternal sealed class HtmlHelper
```

The file generated is HtmlString.g.cs

```
• • •
#nullable enable
using System.IO;
namespace RazorBlade;
internal sealed class HtmlString : IEncodedContent
{
    private readonly string _value;
    public HtmlString(string? value)
        => _value = value ?? string.Empty;
    public override string ToString()
        => _value;
    void IEncodedContent.WriteTo(TextWriter textWriter)
        => textWriter.Write(_value);
```

The file *generated* is HtmlTemplate.g.cs



The file  ${\it generated}$  is <code>IEncodedContent.g.cs</code>

```
*// This file is part of the RazorBlade library.
#nullable enable
using System.IO;
namespace RazorBlade;

/// <summary>
/// Encoded content to we written to the output as-is.
/// </summary>
internal interface IEncodedContent
{
    /// <summary>
    /// Writes the content to the provided <see cref="TextWriter"/>.
    /// </summary>
    /// </summary>
    /// <param name="textWriter"><see cref="TextWriter"/> to write the content to.
</param>
    void WriteTo(TextWriter textWriter);
}
```

The file generated is PlainTextTemplate.g.cs

The file generated is RazorTemplate.g.cs

```
using System.IO;
using System.Threading;
using System.Threading.Tasks;
using RazorBlade.Support;
namespace RazorBlade:
internal abstract class RazorTemplate : IEncodedContent
      protected TextWriter Output { get; set; } = new StreamWriter(Stream.Null);
      protected CancellationToken CancellationToken { get; private set; }
[ConditionalOnAsync(false, Message = $"The generated template is async. Use {nameof(RenderAsync)} instead.")]

public string Render(CancellationToken cancellationToken = default)
           var renderTask = RenderAsync(cancellationToken);
if (renderTask.IsCompleted)
                 return renderTask.Result:
return Task.Run(async () => await renderTask.ConfigureAwait(false),
CancellationToken.None).GetAwaiter().GetResult();
```

The file generated is RazorBladeDemo.PersonDisplay.Razor.g.cs

```
#pragma warning disable 1591
namespace RazorBladeDemo
#Indicate restore
#line 1
"C:\test\RSCG_Examples\v2\rscg_examples\RazorBlade\src\RazorBladeDemo\PersonDisplay.cs
html"
using RazorBladeDemo;
#line default
#line hidden
#nullable disable
#nullable restore
internal partial class PersonDisplay : RazorBlade.HtmlTemplate<Person>
#nullable disable
{
#progray varging disable 1000
        #pragma warning disable 1998
protected async override global::System.Threading.Tasks.Task ExecuteAsync()
#nullable restore
#line (4,14)-(4,79) 6
"C:\test\RSCG_Examples\V2\rscg_examples\RazorBlade\src\RazorBladeDemo\PersonDisplay.cs
html"
#line default
#line hidden
#line default
#line hidden
#nullable disable
```

The file generated is RazorBladeDemo.PersonDisplay.RazorBlade.g.cs

You can download the code and this page as pdf from https://ignatandrei.github.io/RSCG\_Examples/v2/docs/RazorBlade

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