

## RSCG nr 5 : System.Text.RegularExpressions

### Info

Nuget : <https://www.nuget.org/packages/System.Text.RegularExpressions/>

You can find more details at : <https://learn.microsoft.com/en-us/dotnet/standard/base-types/regular-expression-source-generators/>

Author :Microsoft

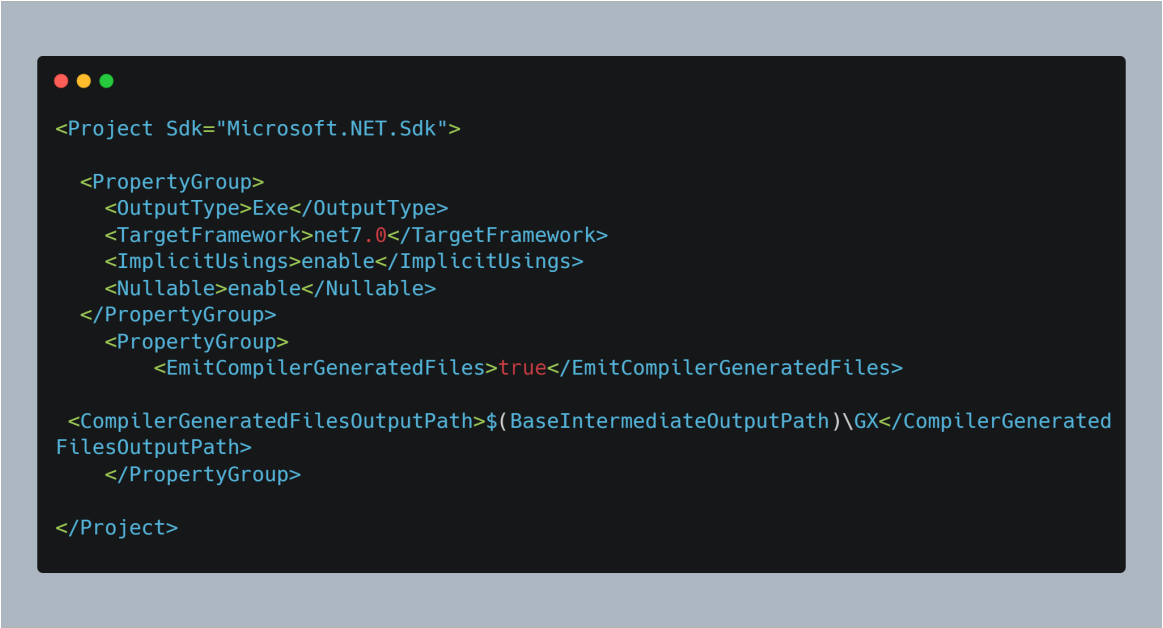
Source : <https://github.com/dotnet/runtime>

### About

Regex compiled

### How to use

Add reference to the System.Text.RegularExpressions 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>

    <CompilerGeneratedFilesOutputPath>$(BaseIntermediateOutputPath)\GX</CompilerGeneratedFilesOutputPath>
  </PropertyGroup>

</Project>
```

This was for me the starting code

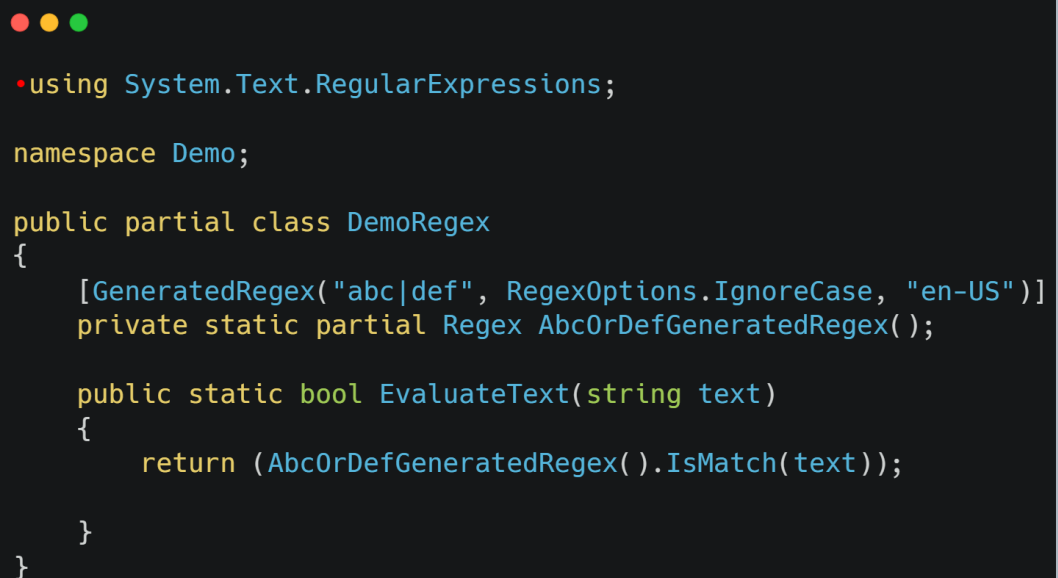
I have coded the file Program.cs



```
•using Demo;  
//https://learn.microsoft.com/en-us/dotnet/standard/base-types/regular-expression-  
source-generators  
//https://devblogs.microsoft.com/dotnet/regular-expression-improvements-in-dotnet-7/  
var x = "Abc";  
Console.WriteLine(DemoRegex.EvaluateText(x));
```

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



```
•using System.Text.RegularExpressions;  
  
namespace Demo;  
  
public partial class DemoRegex  
{  
    [GeneratedRegex("abc|def", RegexOptions.IgnoreCase, "en-US")]  
    private static partial Regex AbcOrDefGeneratedRegex();  
  
    public static bool EvaluateText(string text)  
    {  
        return (AbcOrDefGeneratedRegex().IsMatch(text));  
    }  
}
```

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And here are the *generated* files

The file *generated* is RegexGenerator.g.cs

```
...
private void OnGUI()
{
    if (GUILayout.Button("Run"))
    {
        Run();
    }
}

private void Run()
{
    // Create a new instance of the RSCG class
    RSCG rscg = new RSCG();

    // Set the input string
    rscg.Input = "1234567890";

    // Set the output string
    rscg.Output = "0123456789";

    // Run the RSCG
    rscg.Run();

    // Print the output
    Console.WriteLine(rscg.Output);
}

// Example usage
// RSCG rscg = new RSCG();
// rscg.Input = "1234567890";
// rscg.Output = "0123456789";
// rscg.Run();
// Console.WriteLine(rscg.Output);
```

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

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)