Introduction

CsTools is a C# utility library written in .NET 8. It provides common utilites of all types - strings, math tools, and others. For example, you can change and retrieve a casing mode for a string, or map numbers of any numeric type that exists (because of the generic INumber interface) from an input range to an output range.

Example

```
myStr.IsNullOrEmpty();
myStr2.IsNullOrWhiteSpace();
myIntString.TryParseNumber<int>(out int val);
char[] chars = ['t', 'e', 's', 't'];
Console.WriteLine(chars.GetString()); // --> test
if ("Some Text".GetCasing() == StringCasing.Title)
{
 Console.WriteLine("Is title case!");
}
Console.WriteLine("RandomTest".SetCasing(StringCasing.Camel)); // --> randomTest
"Bob".IsPalindrome();
Console.WriteLine(MathTools.Map(5, new Range<int>(1, 10), new Range<int>(11, 20))); // --
> 15
MathTools.Mod(10, 2);
MathTools.IsEven(6);
MathTools.IsOdd(3);
```

Getting Started

To start using CsTools, you need to import the DLL into your Visual Studio project. To import it, follow these steps:

Import the DLL

- 1. Download the latest DLL from the Releases page.
- 2. In your Visual Studio project, right-click **References** and select **Add Project Reference**.
- 3. In the dialog, select the **Browse** tab from the sidebar.
- 4. Click the **Browse...** button in the bottom-right corner.
- 5. In the file dialog, browse to the DLL you downloaded and select it.
- 6. Back in the **Reference Manager** dialog, make sure the DLL name is checked.
- 7. Finally, press **OK**.

Usage

Now that the DLL is imported into our project, we can start using the CsTools library. To start, add using FireBlade.CsUtils at the top of your script. Optionally, you can also add using FireBlade.CsUtils.Numbers if you want to get the math components as well. Now that we're set, we can start using the library. For example, you can use some string extension methods:

Or change the casing of a string:

```
string str = "hello, world!";
string newStr = str.SetCasing(StringCasing.Title);
Console.WriteLine(newStr.GetCasing().ToString()); // --> Title
Console.WriteLine(newStr);
```

If you have the math components imported, you can use some of the math utilites as well:

```
var range1 = new Range<int>(1, 10);
var range2 = new Range<int>(11, 20);
```

```
var mapped = MathTools.Map<int>(5, range1, range2);
Console.WriteLine(mapped); // --> 15
```

Note: CsUtils can handle any number type, because it uses the generic INumber interface, so you can use int, double, float or any other type you want.