RSCG nr 16 : PartiallyApplied

Info

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

You can find more details at : https://github.com/JasonBock/PartiallyApplied/blob/main/docs/Quickstart.md

Author :Jason Bock

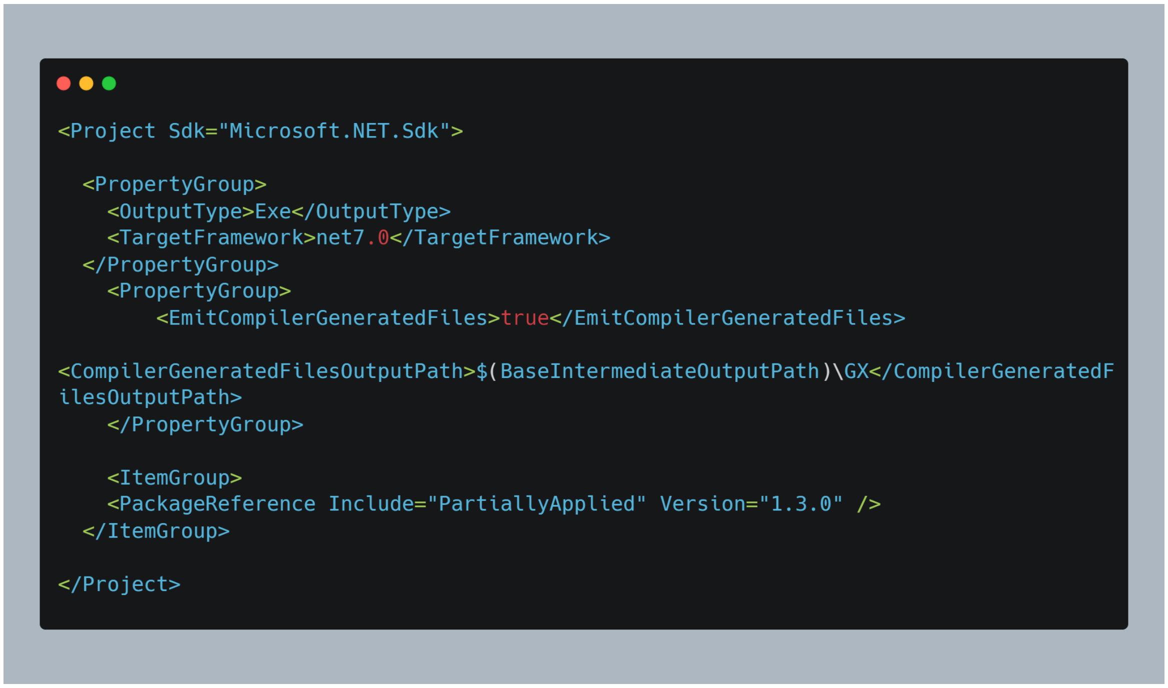
Source : https://github.com/JasonBock/PartiallyApplied

About

If you need to curry functions, you can use this package

How to use

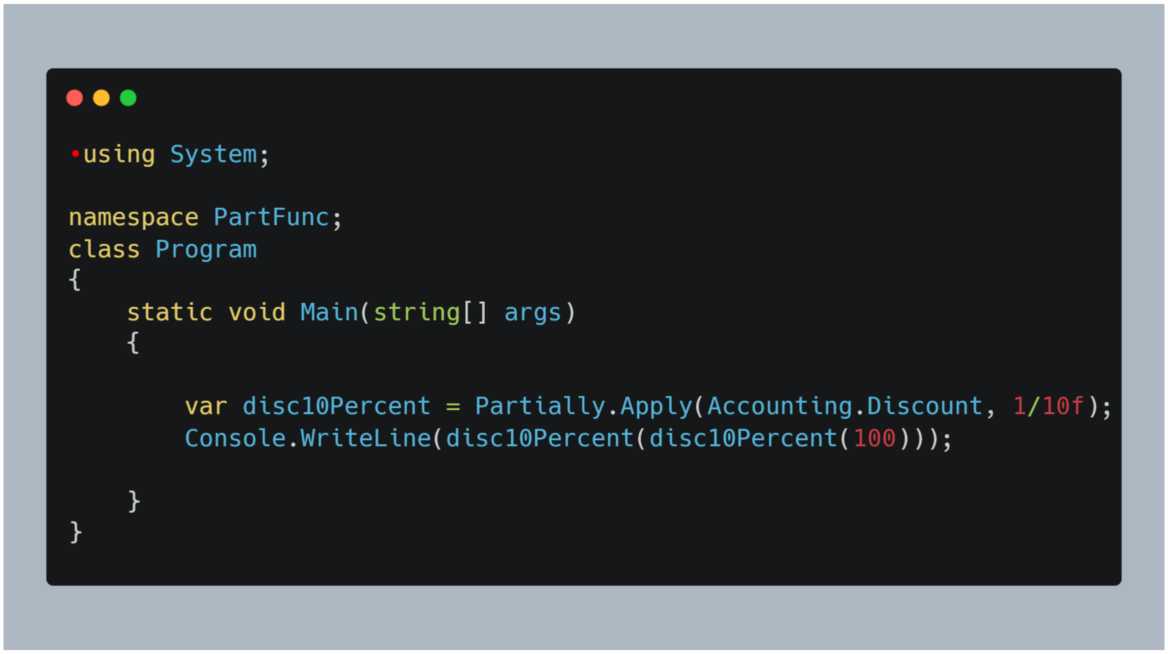
Add reference to the PartiallyApplied in the csproj



```
<Project Sdk="Microsoft.NET.Sdk">

  <PropertyGroup>
    <OutputType>Exe</OutputType>
    <TargetFramework>net7.0</TargetFramework>
  </PropertyGroup>
    <PropertyGroup>
        <EmitCompilerGeneratedFiles>true</EmitCompilerGeneratedFiles>

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

    <ItemGroup>
    <PackageReference Include="PartiallyApplied" Version="1.3.0" />
  </ItemGroup>

</Project>
```

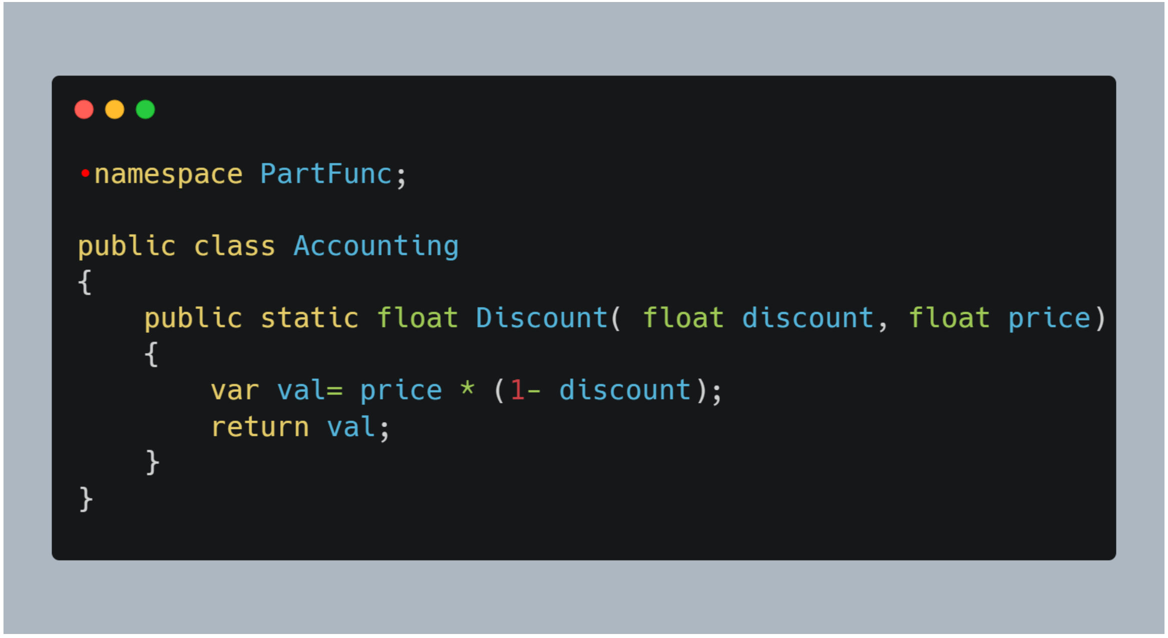
This was for me the starting code

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



```
using System;

namespace PartFunc;
class Program
{
    static void Main(string[] args)
    {

        var disc10Percent = Partially.Apply(Accounting.Discount, 1/10f);
        Console.WriteLine(disc10Percent(disc10Percent(100)));

    }
}
```

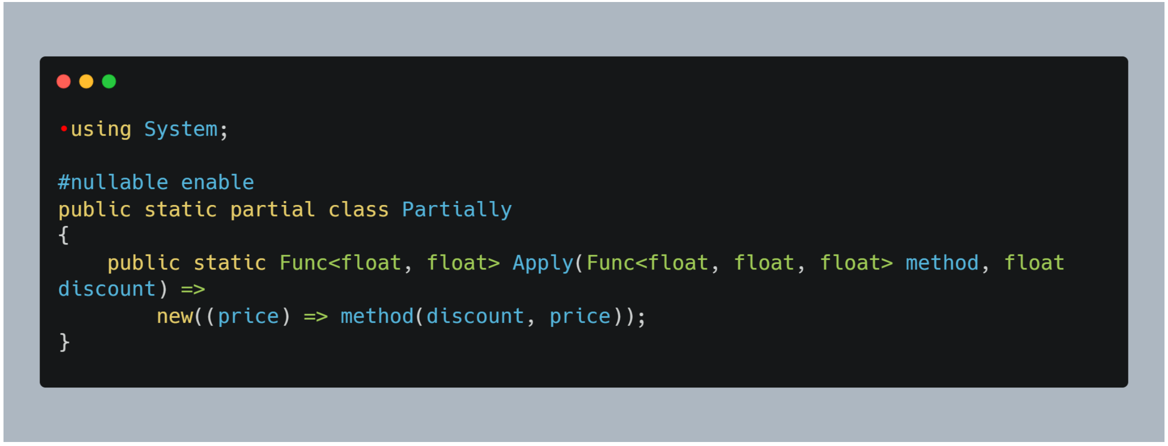
I have **coded** the file Accounting.cs



```
namespace PartFunc;

public class Accounting
{
    public static float Discount( float discount, float price)
    {
        var val= price * (1- discount);
        return val;
    }
}
```

And here are the *generated* files

The file *generated* is Partially.g.cs



```
using System;

#nullable enable
public static partial class Partially
{
    public static Func<float, float> Apply(Func<float, float, float> method, float
discount) =>
        new((price) => method(discount, price));
}
```

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

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