Setting up a C# Source Generator



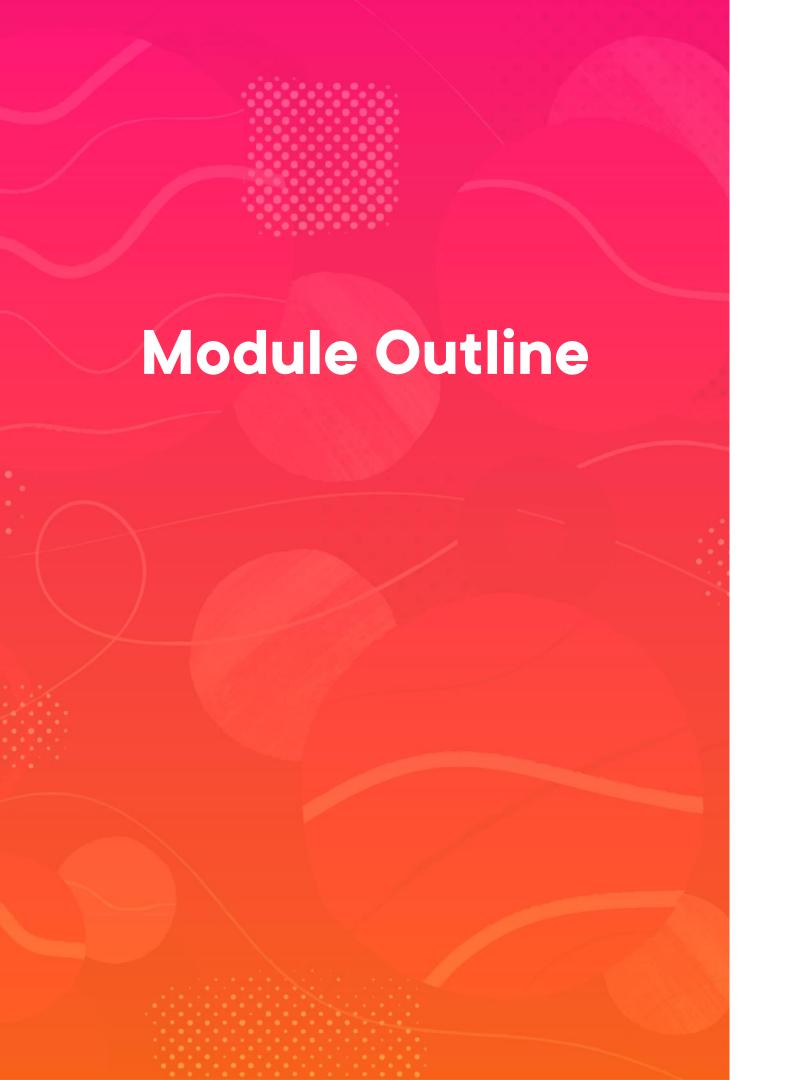
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Set up your environment

Add a source generator project

- Create a source generator

Reference the source generator project



Set up Your Environment

Install Visual Studio

Community edition

Install the .NET Compiler Platform SDK

https://visualstudio.com





Check your Visual Studio installation

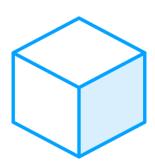


Add a source generator project





Create a .NET Standard 2.0 class library project



Add the required NuGet packages

- Microsoft.CodeAnalysis.Analyzers
- Microsoft.CodeAnalysis.CSharp



Create a class that is a source generator



```
using Microsoft.CodeAnalysis;
[Generator]
public class ToStringGenerator : ISourceGenerator
    public void Execute(GeneratorExecutionContext context)
        // Generate code
    public void Initialize(GeneratorInitializationContext context)
        // Initialize the generator
```



```
using Microsoft.CodeAnalysis;

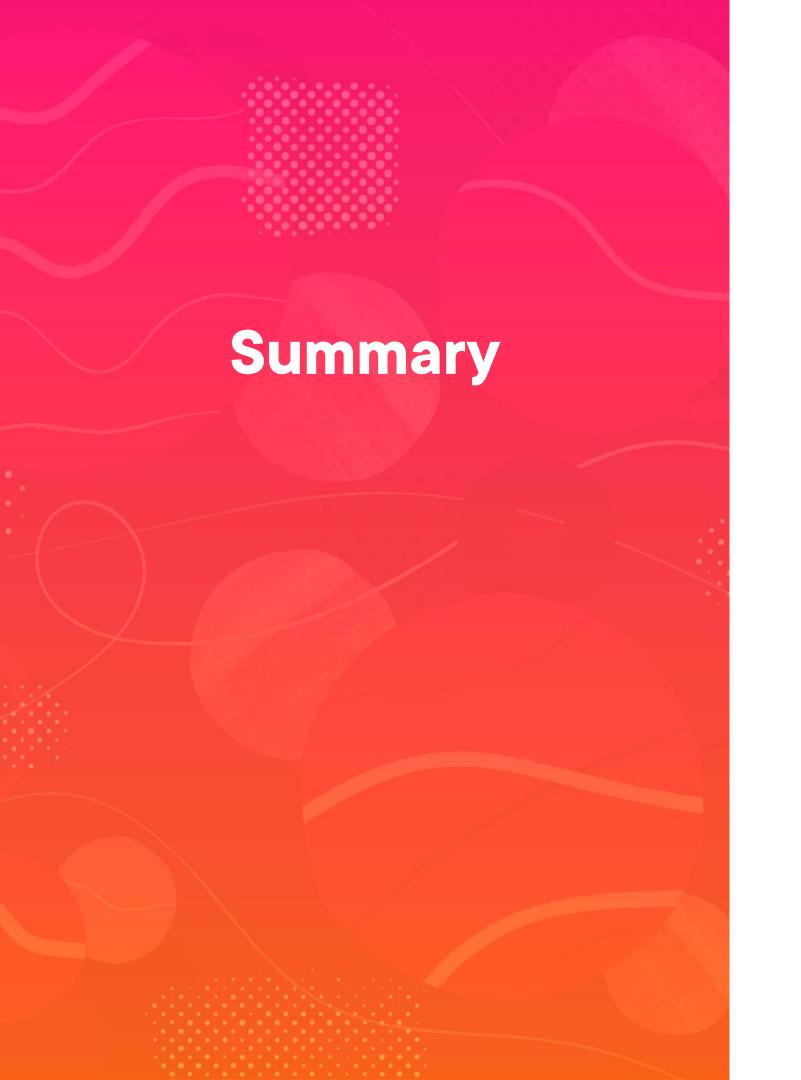
[Generator]
public class ToStringGenerator : IIncrementalGenerator
{
    public void Initialize(IncrementalGeneratorInitializationContext context)
    {
        // Initialize the generator
        // and generate code
    }
}
```







Reference the source generator project



Set up your environment

Add and reference a source generator project

Create a source generator

- Add the Generator attribute
- Implement the IlncrementalGenerator interface

Up Next:

Generating Source Files

