Creating Maintainable Contexts for Automated Testing

Mel Grubb

DEVELOPER

@melgrubb   melgrubb.com   github.com/melgrubb

Demo

Extracting base class functionality

Demo

Extracting a partial class

Demo

Roslyn code templates

T4 vs C# Scripts

T4

Older, better known

Can generate any kind of file

Support built into Visual Studio

Doesn't understand "Core"

CSX

Newer, Roslyn-based

Can also generate any kind of file

Requires a hosting environment

Works well with .Net Core projects

Demo

Generating the Build method

Demo

Generating the Default method

Demo

Generating the With methods

Demo

Creating new Builders

Summary

Examined object builders

Extracted a base Builder class

Separated code into partial classes

Generated code using C# scripting

Going Further

- Choose the right approach
- Choose the right pattern
- Customize it to your own needs
- Generate what you can
- Hand build what you can't