Testing with MSTest, NUnit, or xUnit



Thomas Claudius Huber SOFTWARE DEVELOPER

@thomasclaudiush www.thomasclaudiushuber.com

Module Outline

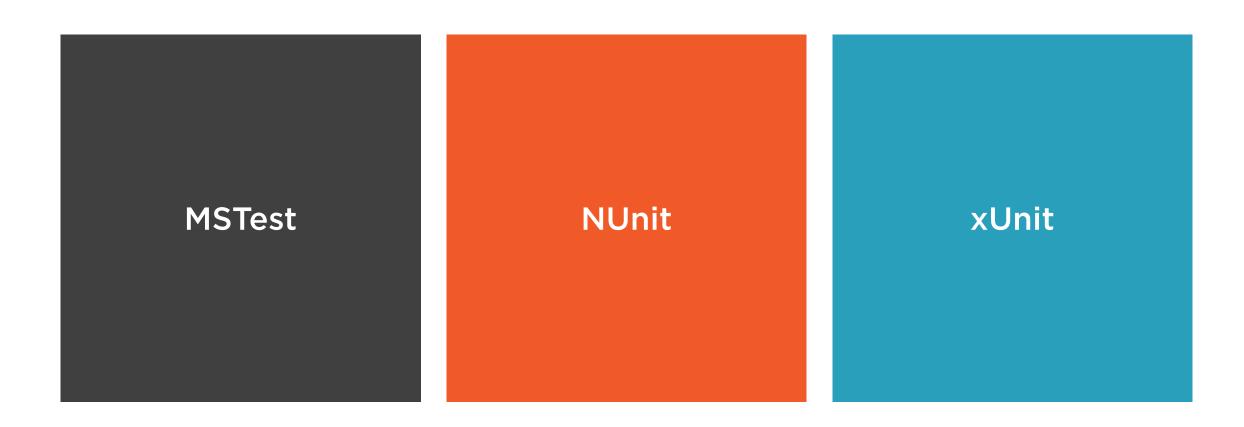


Which test framework should you use?
Understand how test adapters work
Write and run your tests with

- NUnit
- xUnit



Which Test Framework Should You Use?





Which Test Framework Should You Use?

MSTest, NUnit, and xUnit are all great choices

Personal preference

It's good to know all three



Visual Studio extension (VSIX)

NuGet package

*.TestAdapter.dll

Other ways

(like Visual Studio's Extension folder)



WiredBrainCoffee. CupOrderAdmin. Core.Tests MSTest.
TestFramework

MSTest.
TestAdapter

*.TestAdapter.dll

ITestDiscoverer

ITestExecutor

Visual Studio 2019



MSTest.
TestFramework

MSTest. TestAdapter

*.TestAdapter.dll

ITestDiscoverer

ITestExecutor

NUnit

NUnit3TestAdapter

*.TestAdapter.dll

ITestDiscoverer

ITestExecutor

xUnit

xUnit.runner. visualstudio

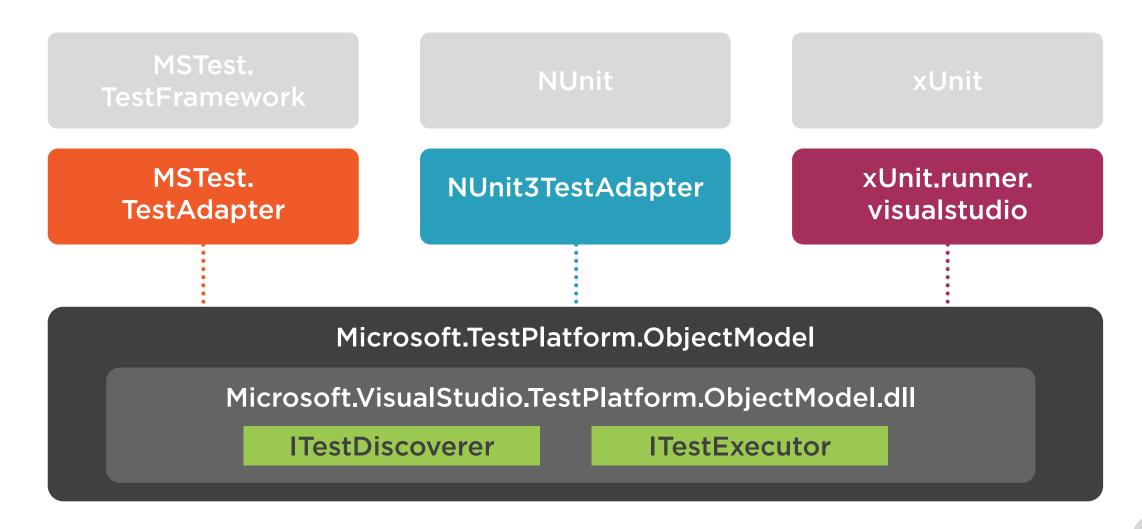
*.TestAdapter.dll

ITestDiscoverer

ITestExecutor

Visual Studio 2019







Demo



The test adapter of MSTest in action Real-time test discovery



Write Tests with NUnit

WiredBrainCoffee.
CupOrderAdmin.
Core.Tests

MSTest.
TestFramework

MSTest.
TestAdapter

NUnit

NUnit3TestAdapter



Write Tests with NUnit

WiredBrainCoffee.
CupOrderAdmin.
Core.Tests

MSTest.
TestFramework

MSTest.
TestAdapter

NUnit

NUnit

NUnit3TestAdapter



Demo



Migrate to NUnit
Write tests with NUnit



Write Tests with xUnit

WiredBrainCoffee.
CupOrderAdmin.
Core.Tests

MSTest.
TestFramework

MSTest.
TestAdapter

xUnit

xUnit.runner.
visualstudio



Write Tests with xUnit

WiredBrainCoffee.
CupOrderAdmin.
Core.Tests

MSTest.
TestFramework

MSTest.
TestAdapter

xUnit
xunit
xunit.runner.
visualstudio



Demo



Migrate to xUnit
Write tests with xUnit



Summary



MSTest, NUnit, and xUnit are all great How test adapters work

Write and run your tests with

- NUnit
- xUnit

