

The Visual Studio Unit Testing Framework (MSTest) is a unit testing framework from Microsoft.

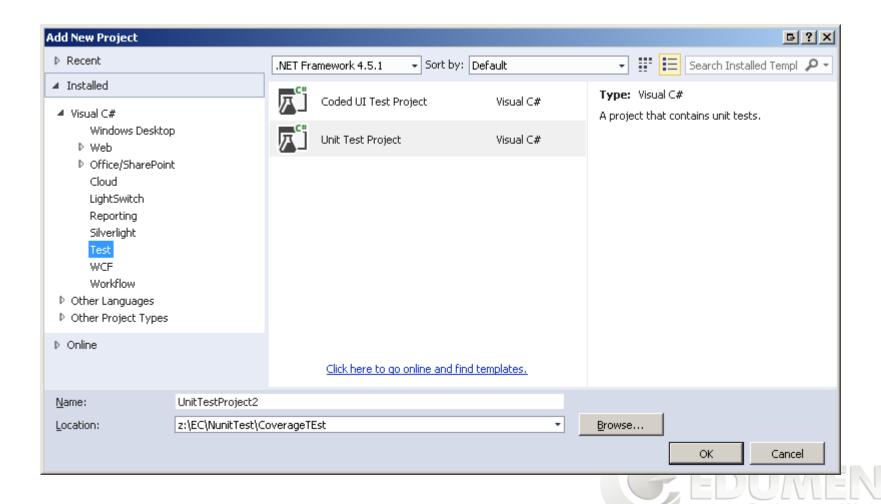
It is **included in Visual Studio** and you access it's attributes and classes In this namespace:

Microsoft.VisualStudio.TestTools.UnitTesting

Tests written using this library can be executed in Visual Studio or using the MSTEST.exe command line tool.



The easiest way to get started using MSTest is by creating a new Visual Studio Test Project



This will create a new project with the correct references and a sample starting test file:

```
using System;
using Microsoft.VisualStudio.TestTools.UnitTesting;
namespace UnitTestProject1
    [TestClass]
    public class UnitTest1
        [TestMethod]
        public void TestMethod1()
```



Differences between MSTest and Nunit attributes

Description	NUnit	MSTest
Identifies a test class	[TestFixture]	[TestClass]
Identifies a test	[Test]	[TestMethod]
Method to run before each test	[SetUp]	[TestInitialize]
Method run after each test	[TearDown]	[TestCleanUp]
Method to run once before running the test in a class	[TestFixtureSetUp]	[ClassInitialize]
Method to run once after running all the tests in a class	[TestFixtureTearDown]	[ClassCleanup]
Method to run once before any of the test in the given assembly	n/a	[AssemblyInitialize]
Method to run once after any of the test in the given assembly	n/a	[AssemblyCleanUp]



MSTest supports fewer Assert methods than Nunit.

AreEqual

AreNotEqual

AreNotSame

AreSame

Fail

Inconclusive

IsFalse

IsInstanceOfType

IsNotInstanceOfType

IsNotNull

IsNull

IsTrue

ReplaceNullChars



Quick exercise

Try to make a test suite with MSTest

Either do something you did before with NUnit or come up with something else. Just to try another test framework.

