Miscellaneous Unit Test Features
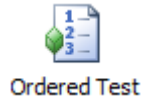# Visual Studio 2010

http://www.pluralsight.com/

pluralsight
see what you can learn

Topics

- **Ordered Tests**
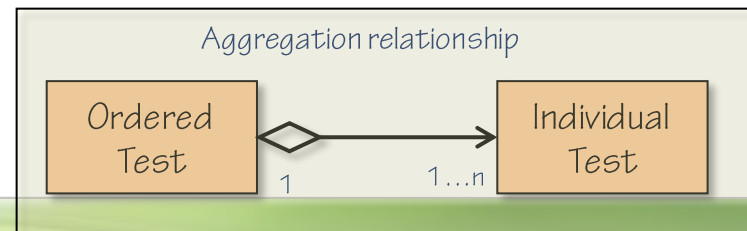

Ordered Test

- **Generic Tests**

Generic Test

- **Unit Test Attributes**

- **WebServiceHelper**

- **TestConfigurationSection**

Ordered Tests

- **A way to order other Visual Studio tests**
  - Appears as a single test in the Test Windows
  - The result appears in a single row in the Test Results window.
    - Double click to see individual results
  - Can execute 1 test many times

- **Used to group tests together**
  - Can contain other ordered tests for fine grain management
  - Cannot contain load tests

- **Can be set to fail if one of the individual tests in a group fails**

Aggregation relationship

Ordered Test

Individual Test

1

1…n

Generic Tests

- **Integrate Non-VS automated testing tools**
  - Can be run from command line
  - Must return a value of Pass or Fail

- **Uses your credentials**
  - Be sure you trust the author!
  - Know what the program will do.

Unit Test Attributes- Identity

- [Owner]
- [Description]
- [TestProperty]
- [TimeOut]

- [CssIteration]
- [CssProjectStructure]
- [WorkItem]

Relate to
Team Foundation Server

Classification
Area: Pluralsight
Iteration: Pluralsight\Iteration 1

User Story 1 (Modified) : Robots should be of various colors

Title: Robots should be of various colors

Status
Assigned To: Phani
State: Active
Reason: New

Unit Test Attributes- few others

- [Priority]
- [Ignore]

- [TestCategory]
- [ExpectedException]

WebServiceHelper

- **Developer Scenario: where web service is running off ASP.net development server**
  - Define a web service
  - Create a "Test Project" in Visual Studio
    - Add "Service Reference"
    - Define proxy object
    - Define protocol / set URL
    - Use Assert.IsTrue for WebServiceHelper.TryUrlRedirection
    - Call web service
    - Use Assert.AreEqual

TestConfigurationSection

- **Instead of providing values in code, depend on configuration files**

- **Steps involved:**
  - Create a **app.config** file for the test project
  - Define config section for **"TestConfigurationSection"**
  - Define **connection strings**
  - Define **data source**
  - Use the **"DataSourceAttribute"** for the test method

- **Advantages**
  - Flexibility for regions (dev, test, production) without touching code
  - Flexibility for file formats (excel, access, xml) without touching code

Summary

- **Ordered Tests**

- **Generic Test**

- **Attributes, attributes, attributes- know them and use them**

- **WebServiceHelper**

- **TestConfigurationSection**