

# Attributes Help You Organize Your Unit Tests

---



**Paul D. Sheriff**

Business/IT Consultant   PDS Consulting

[psheriff@pdsa.com](mailto:psheriff@pdsa.com)

[www.pdsa.com](http://www.pdsa.com)

# Module Overview



- **Grouping**
- **Action**
- **Informational**
- **Data-driven**

# Attributes

## Grouping

- Owner
- Priority
- Test Category

## Action

- DataRow
- Deployment Item
- Ignore
- Timeout

## Informational

- Description

## Data-Driven

- DataSource

# Information Attributes

---

# Description Attribute

**Informational only**

**Do you really  
need it?**

**Make your test name very  
descriptive**

**Can use Reflection to retrieve  
attribute information**

# Demo



**Description attribute**

**Use Reflection to retrieve attribute**

# Grouping Attributes

---

# Owner Attribute

**Who wrote  
the test**

**Who gets  
notified if it fails (thru source  
control systems)**



# Priority Attribute

**Arbitrary value you assign**

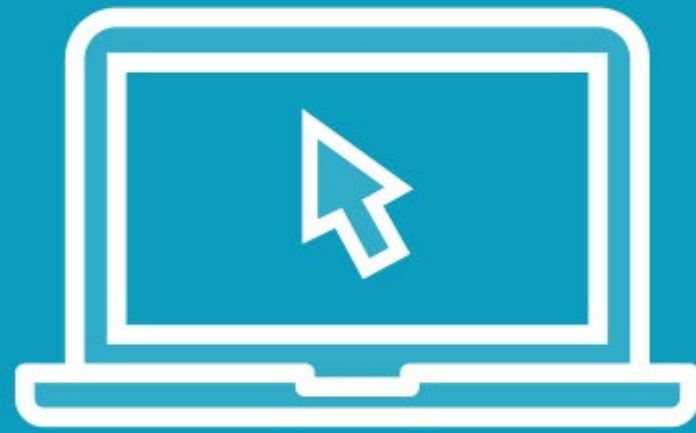
**Can filter using command-line  
utility**

# TestCategory Attribute

**Arbitrary value you assign**

**Can filter using command-line  
utility**

# Demo



## Grouping attributes

- Owner
- Priority
- TestCategory

# Ignore/Timeout Attributes

---

# Ignore Attribute

**Skip a test**

**Keep test in  
your class**

**Come back  
to it later**

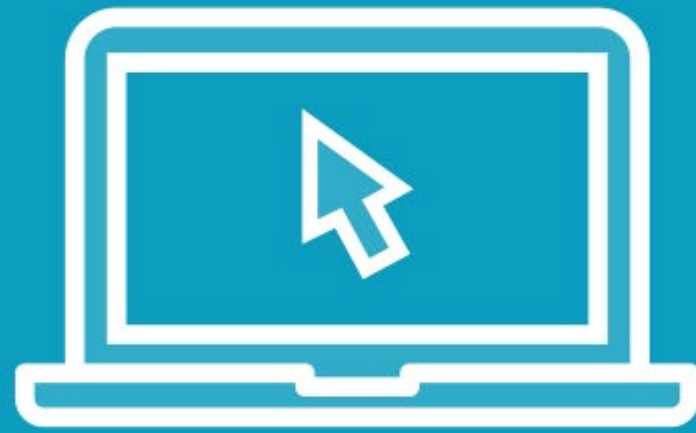
# Timeout Attribute

**In milliseconds**

**How long to  
wait for test  
to complete**

**Fails if not complete  
within interval  
specified**

# Demo



**Ignore attribute**

**Timeout attribute**

# DataRow Attribute

**Creates 1 to n sets of  
data to pass to test**

**[DataRow(1, 1)]  
[DataRow(2, 2)]**

**AreNumbersEqual(  
int num1, int num2);**



# DeploymentItem Attribute

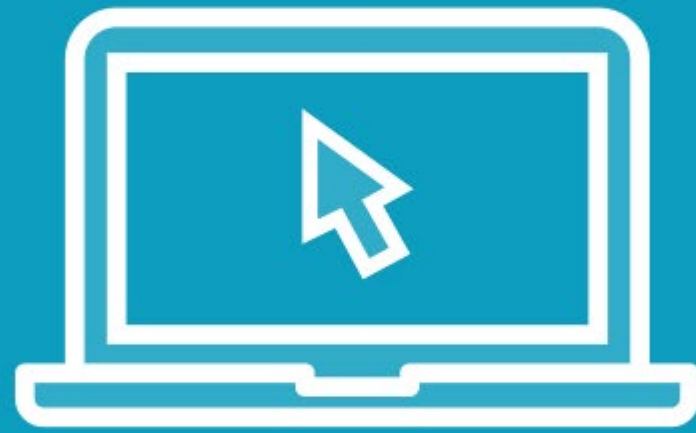
**Add file name  
to attribute**

**[DeploymentItem(  
"File.txt")]**

**Add "File.txt" to the  
test project**

**Copies file to  
deployment  
directory prior to  
test running**

# Demo



**DataRow attribute**

**DeploymentItem attribute**

# Module Summary



- **Your tests can have multiple attributes**
- **The more descriptive the better**
- **Can group tests according to attributes**
- **Can deploy files if you need them**

Up Next:

Assert Classes Save a Lot of Time

---