

Avoid Hard-Coding in Unit Tests



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Module Overview



- **Use programming best practices**
 - **Constants**
 - **Settings file**
 - **Write output using TestContext property**
 - **Create a base test class**

Best Practices

Don't hard code

Use constants

**Store data in
setting files**

**Setup and tear down
as close to each unit
test as possible**

Use comments

**Use good variable
and method names**

Demo



- **Use constants**

TestContext Property

TestContext Property

Create property
'TestContext' in all
your test classes

Automatically
created by unit test
framework

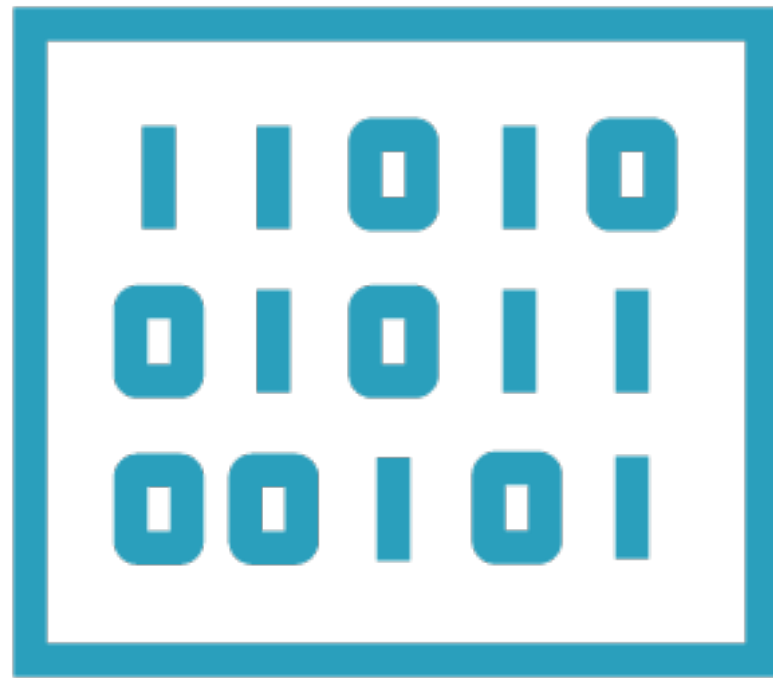
Property is set
before each test is
run

Useful in data-
driven tests

Useful for accessing
test information

Useful for writing
information into test

Properties



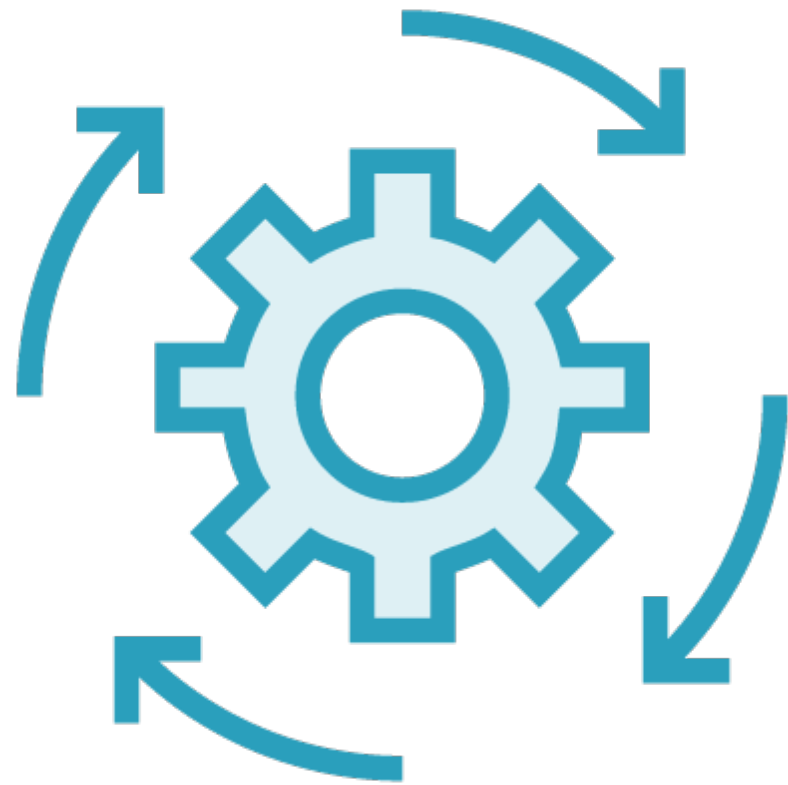
SqlConnection

DataRow

DeploymentDirectory

TestName

Methods

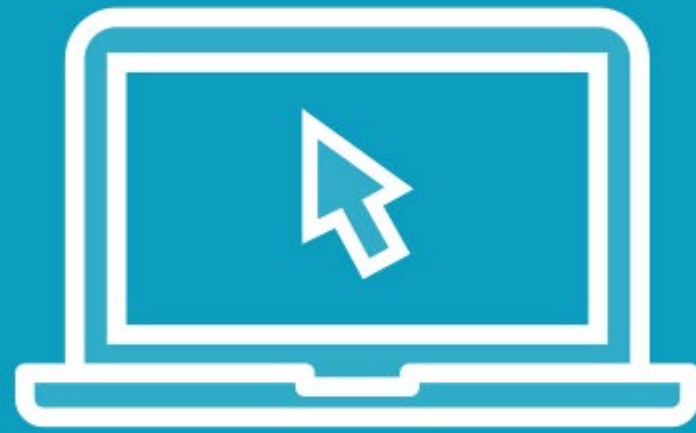


BeginTimer

EndTimer

WriteLine

Demo



- **TestContext property**

Add Settings File

Add Settings File

Add
MyClasses.runsettings
to unit test
project

Add **<RunSettings>**
element

```
<Parameter name=  
  "GoodFileName"  
value=  
  "TestFile.txt" />
```

Set field in
MyClassesTest class
from config file

Use field in
FileNameDoesExist
test

Demo



- **Use a configuration file**

Create/Delete File

Demo



- **Create and delete file**

Create Base Class

Demo



- **Create base test class**

Module Summary



- Use good programming practices
 - Use constants
 - Create a TestContext property
 - Use a settings file
 - Setup and teardown in test
 - Create a base test class
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- Search for unit testing at www.pdsa.com/blog

Up Next:
Initialization and Cleanup
