

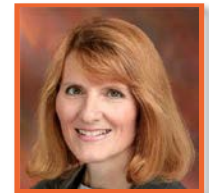
# Defending Your Methods Part 3: Returning Predictable Results

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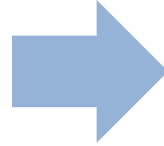
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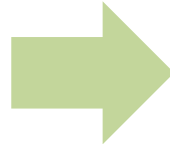
# Defensive Coding

Clean Code



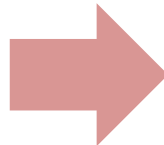
- Improves Comprehension
- Simplifies Maintenance
- Reduces Bugs

Testable Code  
+  
Unit Tests



- Improves Quality
- Confirms Maintenance
- Reduces Bugs

Validation  
+  
Exception Handling



- Improves Predictability
- More Consistent
- Reduces Bugs

# Method Results

Value

Exception(s)

Multiple Values

Null

# Garbage In / Garbage Out



Method



# Examples

```
var result = customer.CalculatePercentOfGoalSteps(this.GoalTextBox.Text,  
                                                    this.StepsTextBox.Text);
```

```
customer.ValidateEmail();
```

```
customerRepository.Add(customer);
```

```
var customer = customerRepository.Find(this.IdTextBox.Text);
```

```
var customerList = customerRepository.Find(this.NameTextBox.Text);
```

Value

Exception(s)

Multiple Values

Null

# Returning Null

```
String message = null;
```

```
Nullable<decimal> result = null;  
decimal? result = null;
```


```
Customer customer = null;
```

```
List<Customer> customerList = null;
```

# Returning Null


```
var customer = customerRepository.Find(this.IdTextBox.Text);
```

```
var customerList = customerRepository.Find(this.NameTextBox.Text);
```









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## Design Patterns Library













A reference library for design patterns of all types

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Authored by: [Steve Smith](#), et al.  
Duration: 15h 1m  
Level: Intermediate  
Released: 9/10/2010  
Course Rating: ★★★★★

Table of Contents   Description   Exercise Files   Assessment   Discussion

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 Introduction to Design Patterns		00:18:45	
 Adapter Pattern		00:29:09	
 Bridge Pattern		00:30:20	
 The Builder Pattern		00:44:48	
 Null Object Pattern		00:21:58	
 Observer Pattern		00:28:38	

# Summary

```
var result = customer.CalculatePercentOfGoalSteps(this.GoalTextBox.Text,  
                                                    this.StepsTextBox.Text);
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var customer = customerRepository.Find(this.IdTextBox.Text);
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Value

Exception(s)

Multiple Values

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