# Defending Your Methods Part 2: Validating Method Parameters

Deborah Kurata <a href="http://msmvps.com/blogs/deborahk/">http://msmvps.com/blogs/deborahk/</a>
@DeborahKurata deborahk@insteptech.com





## **Defensive Coding**

# Clean Code



- Improves Comprehension
- Simplifies Maintenance
- Reduces Bugs

# Testable Code



**Unit Tests** 



- Improves Quality
- Confirms Maintenance
- Reduces Bugs

## **Validation**



Exception Handling

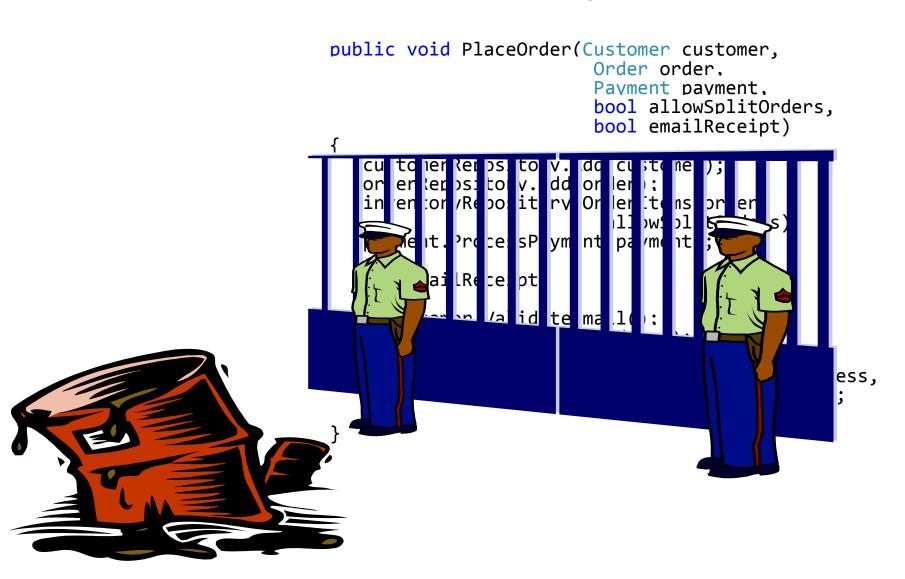


- Improves Predictability
- More Consistent
- Reduces Bugs

## **Defensive Coding**

```
public void PlaceOrder(Customer customer,
                        Order order.
                        Payment payment,
                        bool allowSplitOrders,
                        bool emailReceipt)
              ce sP ym nt pa/ment
           LReceipt
                                               ess,
```

## **Keep out the Garbage**



## **Keep Out Invalid Parameters**

```
public void PlaceOrder(Customer customer,
                                                           Order order.
                                                            Payment payment,
                                                            bool allowSplitOrders,
                                                            bool emailReceipt)
orderController.PlaceOrder(null,
                                                 ce sP ym nt pa/ment
                         null,
                                           ailRece pt
                         null,
                         true,
                         false);
                                                                                    ess,
```

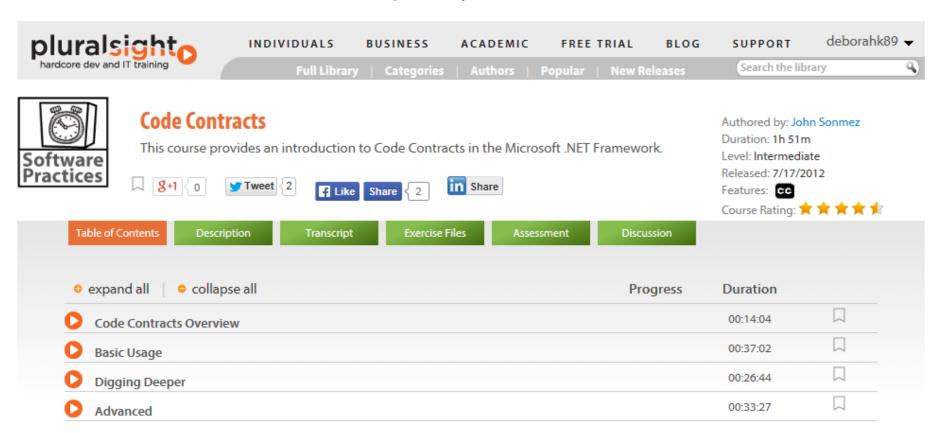
#### **Allow Valid Parameters**



## **Design by Contract**

- What does a method expect?
- What does a method guarantee?
- What does the method maintain?

## **Design by Contract**



### **Summary**

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**Unit Tests** 



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## **Validation**

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Exception Handling



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