

Building the Code and Adding References



Mike McQuillan

ARCHITECT, DEVELOPER, DATA SPECIALIST

@mcqtech www.mcqtech.com



Building the Code and Adding References

**Designing a
Class Module**

**Creating a
Class Module**

**Properties
and Methods**

**External
References
and Events**

**Testing
Class Modules**



Planning



Jo's Class



Search Processor



How to Obtain Search Data



Text Files



Excel
Ranges



Database



Properties



Source Named Range



Target Range



Maximum Number of Selected Items



The Database Developer



Item Name – Item Code

Properties



Source Named Range



Target Range



Maximum Number of Selected Items



Separator Symbol



Separator Required



Methods



Execute Search



Process Selections



User Form



VBA Class Module Properties



A property can be a value or an object



Code is encapsulated



A property can be read-only



A property can be write-only

Property Methods



Get – returns property value



Let – assigns a value to a primitive or object property



Set – assigns a value to an object property



```
Public Property Let MaximumItems (newMaximumItems As Integer)
    If newMaximumItems > 0 And newMaximumItems <= 10 Then
        pMaximumItems = newMaximumItems
    Else
        Debug.Print "Invalid value specified"
    End If
End Property
```

Validating Property Values

Property Letters and Setters can do more than just assign properties



```
Example.MaximumItems = 2
```

```
MsgBox "Number of items: " & Example.MaximumItems
```

Setting and Reading Property Values

Using properties makes this simple



Creating Read-Write Properties



Declare a private variable



Create a Get method



Create a Set or Let method



Bertie's New Stored Procedure



Methods



Execute Search



Process Selections



User Form



Updated Publishers Procedure



Selection Processing Methods



Add Item to Selection



Remove Item from Selection



Clear All Selections



Process Selections



Unit Testing

[Home](#)[Inspections](#)[Indentation](#)[Refactorings](#)[Navigation](#)[Unit Testing](#)[News](#)[About](#)[Contact](#)

Bring the VBE into this century!

Or help us do it! Rubberduck is a very active open-source COM add-in project that integrates with the Visual Basic Editor to enable the features every programmer wants to have in their IDE. From unit testing to code inspections and refactorings, programming in VBA will never be the same.

Reference Explorer

Navigation

Refactorings



Instr Function

`Instr(1, "The hills are alive", "are")`



11



Regular Expressions



Pattern-based string searching

Simple Regular Expression

Regular Expression: "a"
String: "Jo is learning VBA"

Matches: 1



Bertie's Regular Expression

`[^ -]+`



Replace with required separator



Off to the Pub



Overview/ Summary



Class design

Public variables and properties

Getters, Letters and Setters

Testing

Adding methods to a class module

Class module events

External references

