

Building Your First VBA Module

INTRODUCING MODULES AND CLASSES



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Building Your First VBA Module

**Introducing
Modules
and Classes**

**Building the Code
and
Adding References**

**Creating
User Forms**



Introducing Modules and Classes

**Introducing
the Application**

Methods

Standard Modules

Object Modules

Class Modules



Jo the Accidental Developer



Analyst



Sales



Drinks



Payroll



Excel



Stock Control System



Dynamic Communication



SQL Server



Stored Procedures



Lookups



Item Search



Create Order

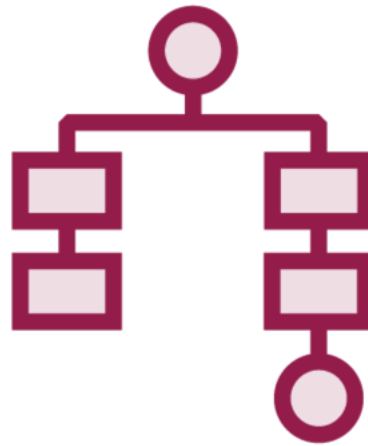


Developing for Excel with VBA

Image of course to go here



Solid Structure



Methods



A piece of code



Sub



Function



Event



```
Sub CreateOrderAndInvoice()
```

```
Dim orderNumber As Integer
```

```
orderNumber = CreateOrder  
GenerateInvoice orderNumber
```

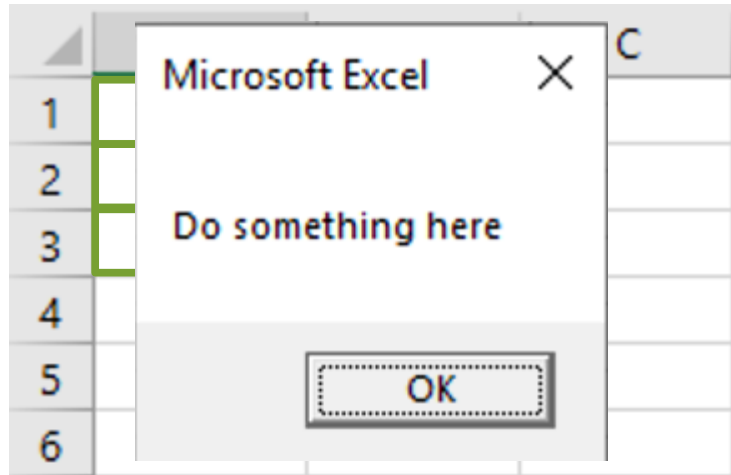
```
End Sub
```

Create Order and Invoice Sub

CreateOrder is a function, **GenerateInvoice** is a sub



Events



```
Private Sub Worksheet_Change  
(ByVal Target As Range)
```

```
    If (Target.Cells.Address = "$A$3") Then  
        MsgBox "Do something here"
```

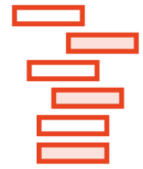
```
    End If
```

```
End Sub
```

Method Homes



Sub



Function



Event



Standard Module



Public Methods



Private Methods



Managing Content



Documents



Scripts



Pictures



What Makes a Class Module?



Properties



Methods



Events



Classes and Objects

Design Time



Class

Runtime



Object



Classes



Formal code structure



Easier code sharing



Easier to share



Event



Classes



Improved code structure



Easier code sharing



Self-contained with no dependencies



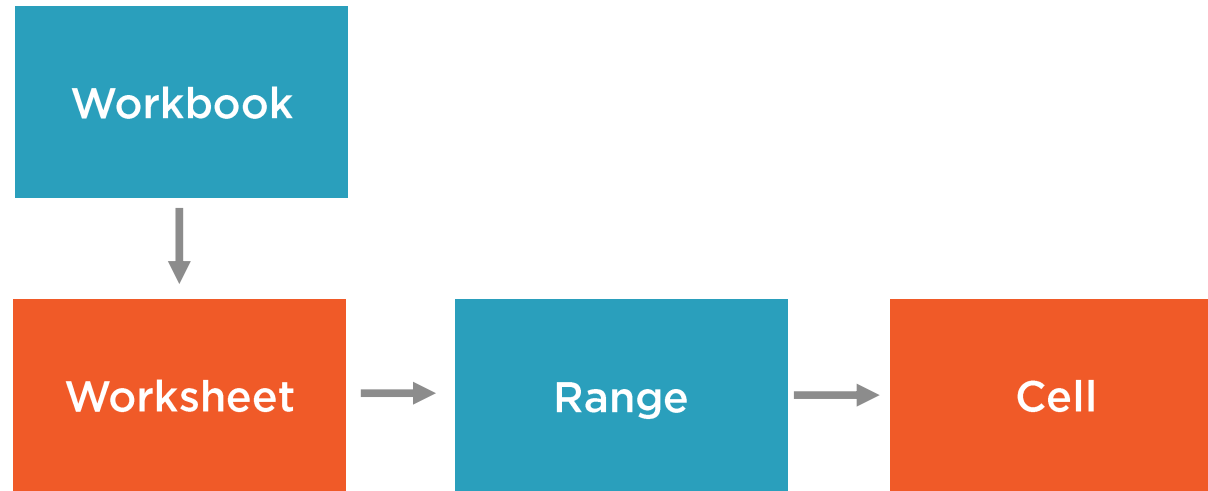
Easier testing



Can be changed without affecting calling code



Excel Object Relationships



The Boss



Spreadsheet Enhancements



Make searching easier



Improved title and item code search



Search multiple publishers



Time to use Classes



Overview/ Summary



Methods

Standard Modules

Object Modules

Class Modules

