

VBA Essentials Cheat Sheet

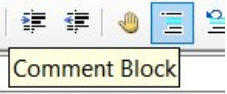
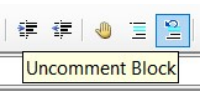
| VBA Data Types |
|---|
| String |
| Used to hold text |
| Long |
| Long integer (whole numbers). -2,147,483,648 to 2,147,483,647 |
| Integer |
| Short integer (whole number). -32,768 to 32,767 |
| Boolean |
| True or False |
| Boolean |
| True or False |
| Date |
| Holds date data types. 1/1/100 to 12/31/9999 |
| Single/Double |
| Used to hold values with decimals |
| Variant |
| Catch all data type. When an explicit data type is not declared, variant type is assigned |

| VBA Common Operations (Required syntax in bold) |
|---|
| If Statement |
| If numGrade > 90 Then letterGrade = "A" |
| ElseIf numGrade > 80 Then letterGrade = "B" |
| Else letterGrade = "F" |
| End If |
| For ... Next Loop |
| For x=0 to 49 'Loop Over Code Next x |
| For Each ... Next Loop |
| For Each Item In Selection Item.Offset(0, 1) = Item * 2 Next |
| Do ... Loop While |
| Do .Range("A1").Offset(Item,0) = Item Loop While myBool = True |
| Do While ... Loop |
| Do While myBool=True .Range("A1").Offset(Item,0) = Item Loop |

| VBA Interacting With User |
|---|
| Message Box |
| Msgbox "Hello world" |
| User Input |
| usrInput = InputBox("Please Enter Your Name") |

| Comparison Operators |
|---|
| Greater Than / Greater Than or Equal |
| Greater Than : > |
| Greater Than or Equal: >= |
| Less Than / Less Than or Equal |
| Less Than : < |
| Less Than or Equal: <= |
| Equal / Not Equal |
| Equal : = |
| Not Equal: <> |

| Logical Operators |
|-------------------------|
| Or |
| True Or True = True |
| True Or False = True |
| False Or False = False |
| And |
| True And True = True |
| True And False = False |
| False And False = False |
| Not |
| Not True = False |
| Not False = True |

| Commenting Code |
|---|
| Single Line Comment |
| Single line comments are created by using an apostropher (') at the beginning of a line |
| Msgbox "This line of code will execute" |
| 'Msgbox "This line of code will execute" |
| Multi Line Comments |
| View -> Toolbars -> Edit |
|   |

| Referencing Workbooks/Worksheets/Ranges |
|---|
| Workbooks |
| Workbook that contains code: ThisWorkbook |
| Using the Active Workbook: Active Workbook |
| Using Numbered Index: Workbooks(1) |
| Using Workbook Name: Workbooks("myWkbk") |
| Worksheet |
| Using the Active Worksheet: ActiveSheet |
| Using the Selected Worksheet: Windows.SelectedSheets |
| Using Numbered Index: Worksheets(1) |
| Using Worksheet Name: Worksheets("myWksht") |
| Range |
| Reference Single Cell: Range("A1") |
| Reference Multiple Adjacent Cells: Range("A1:C5") |
| Reference Multiple Non Adjacent Cells Range("A1:A5, C1:C5") |
| Using a Named Range Range("myRange") |
| Cells |
| Reference All Cells Worksheet.Cells |
| Reference Cells with one Parameter Cells(3) = "C1" |
| Reference Cells With Two Parameters Cells(3,3) = "C3" |
| Cells(3, "E") = "E3" |

| Useful Tips |
|---|
| With ... End With |
| With ThisWorkbook.Worksheets(1) .Range("A1")=Month End With |
| Offset |
| For x=0 to 100 .Range("A1").Offset(x,0) = Rnd Next x |