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VBA Cheatsheet

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Selecting Objects

```
1.  # Select a range with index
2.  Range("A1").Select
3.  Range("A1:B2").Select
4.  Range("A1", "B2").Select
5.  Range("A:A").Select           # select column A
6.
7.  # Select a range without index
8.  Range("A1").End(xlDown).Offset(0,1) # first empty cell
9.  Range("A1000").End(xlUp).Offset(0,1) # first empty cell
10. Range("A1", Range("A1").End(xlDown)) # all cells w/ data
11.
12. # Select a worksheet
13. Sheets("Sheet2").Range("A8").Select
14. Sheets("Sheet2").Activate
15.
16. # Work with current cell
17. Selection.Offset(1,0).Select     # go to next cell below
18. ActiveCell.Offset(1,0).Select
```

Setting Properties

```
1.  # Change cell content
2.  Range("A1").Value = "Sample Text for one cell"
3.  Range("A1:B3").Value = "Fill all cells"
4.  Range("A:A").Clear           # clear content in column
5.
6.  # Change formatting
7.  Selection.Font.Bold = True    # Bolden the selected cell
8.  Range("A1:A5").Font.Color = vbRed # change color to red
9.
10. # Change multiple properties
11. With ActiveCell
12.     .Font.Size = 18
13.     .Borders.Weight = 3
14. End With
```

Variables and Arrays

```

1.  # Different Variables
2.  Option Explicit # requires you to dim before using a variable
3.  Sub demo1()
4.      Dim last As String, first As String, age As Integer
5.      Dim area As Range
6.      Set area = Range("A1")
7.      first = area.Value
8.      last = Range("A2").Value
9.      age = 1
10. End Sub
11.
12.
13. # Arrays
14. Option Base 1 # change the first index of array from 0 to 1
15. Sub demo2()
16.     # static array
17.     Dim array1(3) As String
18.     array1(1) = "change content"
19.
20.
21.     # dynamic array
22.     Dim array2() As String
23.     ReDim array2(1 to 10) # set the size later
24.     ReDim Preserve array2(1 to 20) # increase the size
25.
26.     Dim array3 As Variant
27.     array3 = Array("Mon","Tues","Wed","Thurs","Fri")
28.     MsgBox array3(1) # this should be Mon with Base 1
29.
30.     # ranges to array
31.     Dim array4 As Variant
32.     Dim dataRange As Range
33.     Set dataRange = Range("A1",Range("A1").End(xlDown)).Value
34.     array4 = dataRange.Value
35.     array4(2,1) = "Value in A2" # 2 dimentional array
36.     dataRange.Value = array4 # update range value
37.
38.     # Get array dimentions
39.     MsgBox LBound(array3) &"-" & UBound(array3) # 1-5
40.     MsgBox LBound(array4,1) # first dimension
41.     MsgBox LBound(array4,2) # second dimension = 1
42.
43.     # iterate through array
44.     Dim day as Variant
45.     For Each day in array3
46.         MsgBox day
47.     Next day
48.
49.     Dim i As Integer
50.     For i = LBound(array4,1) to UBound(array4,1)
51.         MsgBox array4(i,1)
52.     Next i
53.
54. End Sub

```

Conditions

```

1.  # Boolean Values

```

```

2. Dim trueValue As Boolean, falseValue As Boolean
3. trueValue = (1+1 = 2)           # True
4. falseValue = (2>1) AND (1+2 = 4) # False
5. falseValue = False             # False
6.
7. # One Line If statement
8. If trueValue Then MsgBox("1+1=2") # message (1+1=2)
9. If falseValue Then MsgBox("False!") # message nothing
10.
11. # Basic If Statement
12. Dim v As Integer
13. v = 5
14. If v <= 0 Then
15.     MsgBox "value is zero or negative!"
16. ElseIf v mod 2 = 0 Then
17.     MsgBox "value is a positive even number"
18. Else
19.     MsgBox "value is a positive odd number"
20. End If
21.
22. # Case
23. Select Case v
24.     Case 0
25.         MsgBox "zero"
26.     Case 1, 2, 3
27.         MsgBox "1, 2, or 3"
28.     Case 4 To 9
29.         MsgBox "4, 5, 6, 7, 8, or 9"
30.     Case v >= 10
31.         MsgBox "double digits positive number"
32.     Case Else
33.         MsgBox "negative number"
34. End Select

```

Loops

```

1. #While...Wend
2. x = 1
3. While x<=10
4.     MsgBox x
5.     x = x + 1
6. Wend
7.
8. # Do while...
9. x = 1
10. Do While x <= 10 # print 1 to 10
11.     MsgBox x
12.     x = x + 1
13. Loop
14.
15. x = 1
16. Do while x<=10 # print 1 to 7
17.     if x = 7 Then Exit Do
18.     MsgBox x
19.     x = x + 1
20. Loop
21.
22. # Do... Until
23. x = 10
24. Do Until x=11
25.     MsgBox x
26.     x = x + 1

```

```
27. Loop
28.
29. # For ... Next
30. For x = 1 to 10
31.     MsgBox x
32. Next x
```

Procedures & Functions

```
1. # Call a Sub
2. Sub demo1()
3.     MsgBox "1"
4.     Call demo2
5. End Sub
6.
7. Sub demo2()
8.     MsgBox "2"
9. End Sub
10.
11. # Call a function
12. Sub demo3()
13.     MsgBox (doubleAmount(2)) # print 4
14. End Sub
15.
16. Function doubleAmount(i As Integer) As Integer
17.     doubleAmount = i * 2
18. End Function
19.
20. # Recursive function (a fuction that calls itself)
21. Function Fibonacci(i As Integer) As Integer
22.     If i = 1 Or i = 2 Then
23.         # base case
24.         Fibonacci = 1
25.     Else
26.         # recursive case
27.         Fibonacci = Fibonacci(i-1) + Fibonacci(i-2)
28.     End If
29. End Function
```

Input & Output

```
1. Dim name As String
2. name = InputBox("What is your name?")
3. MsgBox("Hello, " & name & "!!")
```

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