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VBA - SELECTING CELLS (SHORT NOTES)

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1. RANGE - SELECT BY ADDRESS

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Syntax: Range("A1")

```
Sub ExampleRange()
    Range("A1").Select           ' Select A1
    Range("A1:B3").Select        ' Select block
    Range("C1").Value = "Hello"   ' Write in C1
End Sub
```

Use: Know exact cell address

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2. CELLS - SELECT BY ROW & COLUMN NUMBER

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Syntax: Cells(row, column)  
A1=Cells(1,1), B3=Cells(3,2), D5=Cells(5,4)

```
Sub ExampleCells()
    Cells(1, 1).Select           ' Select A1
    Cells(3, 2).Value = "World"   ' B3
    Range(Cells(2, 1), Cells(4, 3)).Select ' A2:C4
End Sub
```

Use: Loops, variables, calculations

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3. ACTIVECELL - CURRENT SELECTED CELL

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Syntax: ActiveCell

```
Sub ExampleActiveCell()
    Range("B2").Select
    MsgBox "Active Cell: " & ActiveCell.Address      ' $B$2
    ActiveCell.Value = "I am active"
End Sub
```

Use: Work with selected cell

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4. END - JUMP TO LAST FILLED CELL

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Syntax: End(xlDown), End(xlUp), End(xlRight), End(xlLeft)

```
Sub ExampleEnd()
    Range("A1").Select
    ActiveCell.End(xlDown).Select      ' Jump down to last cell
    ActiveCell.End(xlRight).Select     ' Jump right to last cell
End Sub
```

Use: Find last data cell

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5. OFFSET - MOVE RELATIVE TO STARTING CELL

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Syntax: Offset(rows, columns)

```
Sub ExampleOffset()
    Range("A1").Select
    ActiveCell.Offset(1, 5).Select      ' Down 1, Right 5
    ActiveCell.Offset(0, -2).Value = "Hello" ' Left 2
End Sub
```

Use: Relative positioning, adjacent cells

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## ADVANCED SELECTIONS

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Entire Column:  
Columns("C").Select

Entire Row:  
Rows(5).Select

Current Region:  
Range("A1").CurrentRegion.Select

Entire Sheet:  
Cells.Select

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## SUMMARY TABLE

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Method	Syntax	Use When
Range	Range("A1:B3")	Know exact address
Cells	Cells(1, 1)	Using loops/numbers
ActiveCell	ActiveCell.Value	Work with selected
End	End(xlDown)	Find last data
Offset	Offset(1, 0)	Relative movement

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## QUICK EXAMPLES

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Write in A1:  
Range("A1").Value = "Hello"

Fill 10 cells using loop:  
For i = 1 To 10  
 Cells(i, 1).Value = i  
Next i

Write next to A1:  
Range("A1").Offset(0, 1).Value = "B1"

Find last row:  
Range("A1").End(xlDown).Select

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## COMPLETE EXAMPLE

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```
Sub SelectExamples()
    Dim i As Integer
```

```
Range("A1").Value = "Numbers"
Range("A1").Offset(0, 1).Value = "Numbers*10"

For i = 1 To 10
    Cells(i + 1, 1).Value = i
    Range("A1").Offset(i, 1).Value = i * 10
Next i

Range("A1").End(xlDown).Select
MsgBox "Last cell: " & ActiveCell.Address
End Sub
```

Result:  
A1: Numbers B1: Numbers\*10  
A2: 1 B2: 10  
A3: 2 B3: 20  
... and so on

```
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FILE: VBA_Selecting_Cells_Short.txt
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```