VBA data types

Type	Description
Variant	any data type
Integer	(2 bytes) integer
Long	(4 bytes) integer
Single	(4 bytes) floating point
Double	(8 bytes) floating point
String	non-numeric data
Object	any object reference
Date	a date
Boolean	True / False
Byte	1-255

Cell selection

select a single cell

```
Range("A1").Select
```

select a contiguous range

```
Range("A1:G5").Select
```

select a non-contiguous range

```
Range("A1:G5,J10:J15").Select
```

offset syntax (move from A1 to A2)

```
Range("A1").Offset(1,0).Select
```

select down to first empty cell

```
Range(Selection,
Selection.End(xlDown)).Select
```

set a cell's value

```
Range("A1").Value = i
```

deleting, moving, copying (VBA)

Delete entire row

```
Rows("2").Delete
```

Delete entire column

```
Columns("B").Delete
```

Copy / paste a range with destination

```
Range("A1:B6").Copy
Destination:=Range("A1")
```

Clear a range

```
Range("D:D").Clear
```

deleting, moving, copying (VBA) (cont)

Delete a worksheet

```
Worksheets("Sheet2").Delete
```

Execute a formula calculation in a range

```
Range("A1:A3").Formula = 2*2/6
```

Use RANGE to select single cells.

Iterate through a selection

```
Dim cell As Range
For Each cell In Selection
...
Next cell
```

Control structures VBA

Do ... Until Loop
```
Do [Until condition]
...
Loop
```
Do ... While Loop
```
Do [While condition]
...
Loop
```
For...Next Loop
```
For counter = start To end [Step s]
...
Next [counter]
```

"WITH" syntax

```
With Worksheets("Sheet1")
.Rows
.Columns
...
End With
```

The "with" construction provides a shorthand way of accessing many properties and methods of the same object.

String functions

InStr ([start], "string", "what_to_find")	Returns position of string within a string
StrConv("string", vbProper|Upper|Lower Case)	converts string to proper|upper|lower case
Left ("string", x)	Return specified
Len ("string")	Return length of string
Trim ("string")	Trims string of leading and trailing spaces
Split("string", ",")	Split string by delimiter e.g. comma
Val("string")	Return numerical part only
StrComp("strA", "strB", vbTextCompare)	Compare two strings (0=true)

VBA information functions

IsArray

IsEmpty

IsError

IsMissing

IsNumeric

IsNull

IsObject

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