

### 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,I10: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 = 1
```

### 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 = 2^2/5
```

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

# Excel Vba Cheat

**Hussin A.Rothana**



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web zemax 1 introuction microlens arrays have been applied in many electro optical and micro optical systems such as flexible light field smart phones1 solar concentrators2 data storage3 and integral imaging 3d displays 4 etc these microlens arrays are typically composed of microlens cells arranged in a deterministic pattern5 the

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web i set up a hybrid modell including sc source and focusing lens and nsc microlens array lenslet array 1 to generate a uniform line transversaly perpendicular to beam propagation in a certain distance now i want to optimize the microlens toric and aspheric coeff parameteres to achive the best line uniformity and smallest line width

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web sep 24 2020 microlens arrays are the key component in imaging systems because the systems exhibit some excellent optical properties such as large fov angles and low aberration and distortion 6 zemax llc

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web mar 31 2021 zemax llc thanks dr reinhard voelkel of suss microoptics sa for the experimental data used in this article setting up the initial design this article describes a commercial fiber coupler which couples two pieces of corning smf 28e fiber using suss microoptics fc q 250 microlens arrays the manufacturers data is as follows

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web nov 3 2015 with optical sensor arrays tiny lens systems serve to focus and concentrate the light onto the photodiode surface instead of allowing it to fall on non photosensitive areas of the pixel device fill factor area occupied by the microlens arrays mostly the lens shape is cylindrical or spherical array size strongly depends on the applications

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web oct 16 2021 help me please to model the lens array in sequential mode i mean some lens no microlens in the same plane on the circle radius icon best answer by ray the sequential dll is quite easy to modify non sequential are more complex there are more array types available in this forum post community zemax