



Getting Real with VBA

Data Boot Camp
Lesson 2.3





Words of Advice

Advice #1

There is no cram.



Advice #2

If you ever spend more than 10 hours on homework in a week without seeing progress, ask for help!

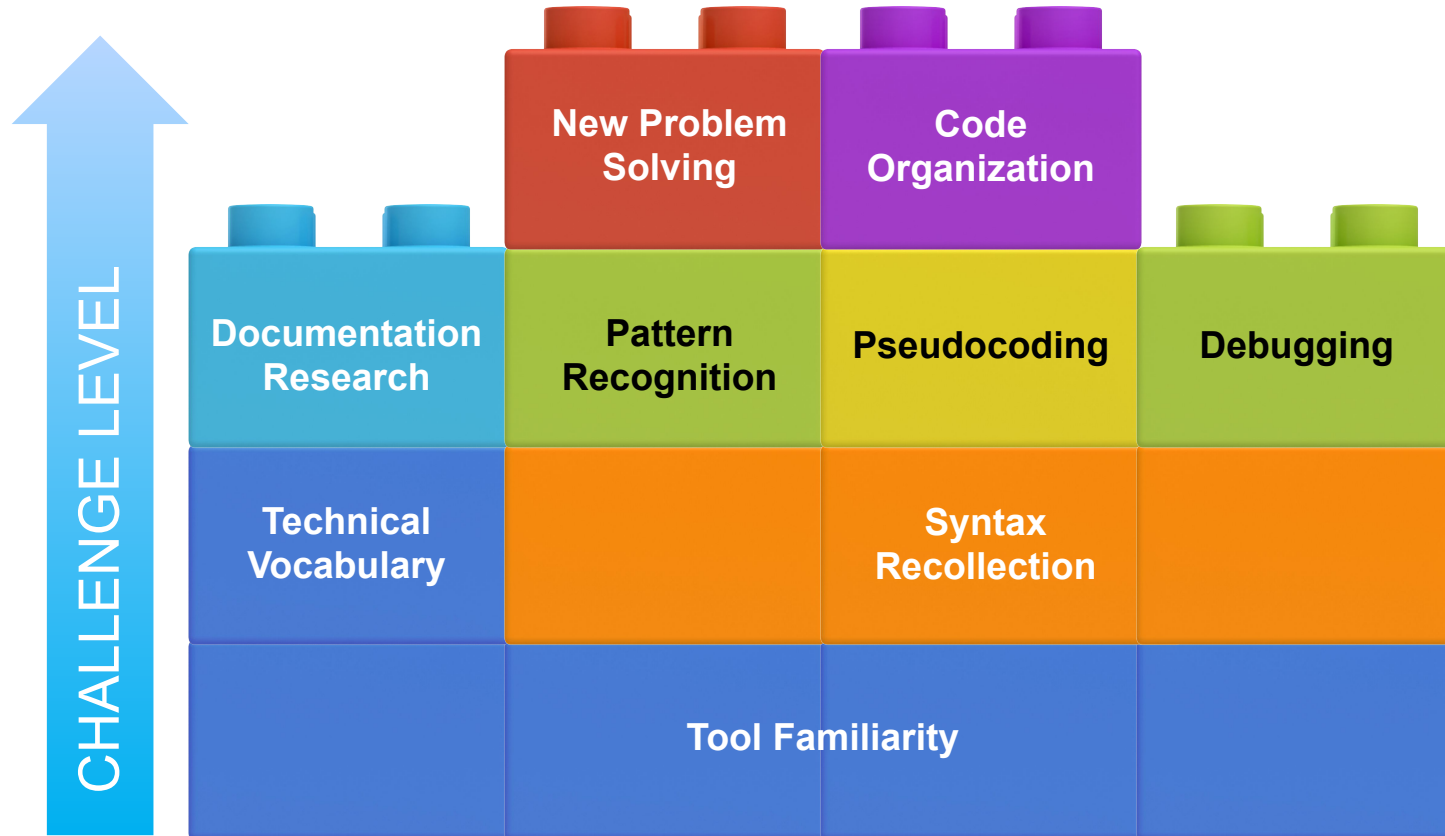


Advice #3

Study the right way.



Study the Right Way





Questions?

Refresher













Explain to a Baby

What is a **for loop**?



What Will This Code Do?

```
Sub QuickLoop()  
    For i = 1 to 3  
        MsgBox(Cells(i, 1))  
    Next i  
End Sub
```













	A	B	C
1	Michael 	Luis 	Jin Yong 
2	Evan 	Mariah 	Ricky 
3	Jamie 	Ron 	Mateo 
4	John 	Lakshmi 	Adhira 

What Will This Code Do?

When:

`i = 1`

```
Sub QuickLoop()  
  For i = 1 to 3  
    MsgBox(Cells(i, 1))  
  Next i  
End Sub
```













	A	B	C
1	Michael <code>i = 1</code> 	Luis 	Jin Yong 
2	Evan 	Mariah 	Ricky 
3	Jamie 	Ron 	Mateo 
4	John 	Lakshmi 	Adhira 

What Will This Code Do?

When:

i = 2

```
Sub QuickLoop()  
    For i = 1 to 3  
        MsgBox(Cells(i, 1))  
    Next i  
End Sub
```













	A	B	C
1	Michael 	Luis 	Jin Yong 
2	Evan i = 2 	Mariah 	Ricky 
3	Jamie 	Ron 	Mateo 
4	John 	Lakshmi 	Adhira 

What Will This Code Do?

When:

i = 3

```
Sub QuickLoop()  
  For i = 1 to 3  
    MsgBox(Cells(i, 1))  
  Next i  
End Sub
```













	A	B	C
1	Michael 	Luis 	Jin Yong 
2	Evan 	Mariah 	Ricky 
3	Jamie i = 3 	Ron 	Mateo 
4	John 	Lakshmi 	Adhira 

What Will This Code Do?

Not going to:

`i = 4`

```
Sub QuickLoop()  
  For i = 1 to 3  
    MsgBox(Cells(i, 1))  
  Next i  
End Sub
```

	A	B	C
1	Michael 	Luis 	Jin Yong 
2	Evan 	Mariah 	Ricky 
3	Jamie <code>i = 3</code> 	Ron 	Mateo 
4	John 	Lakshmi 	Adhira 













Explain to a Baby

What is a **nested** for loop?



What Will This Code Do?

```
Sub QuickLoop()  
    For i = 1 to 4  
        For j = 1 to 3  
            MsgBox(Cells(i, j))  
        Next j  
    Next i  
End Sub
```













	A	B	C
1	Michael 	Luis 	Jin Yong 
2	Evan 	Mariah 	Ricky 
3	Jamie 	Ron 	Mateo 
4	John 	Lakshmi 	Adhira 

What Will This Code Do?

When:

i = 1 **j = 1**

```
Sub QuickLoop()  
    For i = 1 to 4  
        For j = 1 to 3  
            MsgBox(Cells(i, j))  
        Next j  
    Next i  
End Sub
```













	A	B	C
1	Michael i = 1 j = 1 	Luis 	Jin Yong 
2	Evan 	Mariah 	Ricky 
3	Jamie 	Ron 	Mateo 
4	John 	Lakshmi 	Adhira 

What Will This Code Do?

When:

i = 1 **j = 2**

```
Sub QuickLoop()  
    For i = 1 to 4  
        For j = 1 to 3  
            MsgBox(Cells(i, j))  
        Next j  
    Next i  
End Sub
```













	A	B	C
1	Michael i = 1 	Luis j = 2 	Jin Yong 
2	Evan 	Mariah 	Ricky 
3	Jamie 	Ron 	Mateo 
4	John 	Lakshmi 	Adhira 

What Will This Code Do?

When:

`i = 1` `j = 3`

```
Sub QuickLoop()  
  For i = 1 to 4  
    For j = 1 to 3  
      MsgBox(Cells(i, j))  
    Next j  
  Next i  
End Sub
```













	A	B	C
1	Michael <code>i = 1</code> 	Luis 	Jin Yong <code>j = 3</code> 
2	Evan 	Mariah 	Ricky 
3	Jamie 	Ron 	Mateo 
4	John 	Lakshmi 	Adhira 

What Will This Code Do?

When:

i = 2 **j = 1**

```
Sub QuickLoop()  
  For i = 1 to 4  
    For j = 1 to 3  
      MsgBox(Cells(i, j))  
    Next j  
  Next i  
End Sub
```













	A	B	C
1	Michael 	Luis 	Jin Yong 
2	Evan i = 2 j = 1 	Mariah 	Ricky 
3	Jamie 	Ron 	Mateo 
4	John 	Lakshmi 	Adhira 

What Will This Code Do?

When:

i = 2 **j = 2**

```
Sub QuickLoop()  
  For i = 1 to 4  
    For j = 1 to 3  
      MsgBox(Cells(i, j))  
    Next j  
  Next i  
End Sub
```













	A	B	C
1	Michael 	Luis 	Jin Yong 
2	Evan i = 2 	Mariah j = 2 	Ricky 
3	Jamie 	Ron 	Mateo 
4	John 	Lakshmi 	Adhira 

What Will This Code Do?

When:

i = 2 **j = 3**

```
Sub QuickLoop()  
  For i = 1 to 4  
    For j = 1 to 3  
      MsgBox(Cells(i, j))  
    Next j  
  Next i  
End Sub
```













	A	B	C
1	Michael 	Luis 	Jin Yong 
2	Evan i = 2 	Mariah 	Ricky j = 3 
3	Jamie 	Ron 	Mateo 
4	John 	Lakshmi 	Adhira 

What Will This Code Do?

When:

i = 3 **j = 1**

```
Sub QuickLoop()  
    For i = 1 to 4  
        For j = 1 to 3  
            MsgBox(Cells(i, j))  
        Next j  
    Next i  
End Sub
```

	A	B	C
1	Michael 	Luis 	Jin Yong 
2	Evan 	Mariah 	Ricky 
3	Jamie i = 3 j = 1 	Ron 	Mateo 
4	John 	Lakshmi 	Adhira 



Questions?