

How do you use IF NOT in VBA, and can you provide examples?

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IF NOT is a conditional statement used in VBA (Visual Basic for Applications) that allows for the execution of a certain set of code if a condition is not met. This statement follows the syntax "IF NOT THEN ." It is typically used in conjunction with the IF statement to provide an alternative action if the initial condition is not satisfied.

For example, if we want to check if a number is greater than 10 and perform a certain action if it is, we can use the IF statement as follows:

```
IF > 10 THEN
```

```
END IF
```

However, if we want to perform a different action if the number is not greater than 10, we can use the IF NOT statement as follows:

```
IF NOT > 10 THEN
```

```
END IF
```

This allows for more flexibility in our code and provides a way to handle different scenarios. Overall, IF NOT is a useful tool in VBA for creating conditional logic and controlling the flow of a program.

VBA: Use IF NOT (With Examples)

You can use the following basic syntax to use IF NOT logic in VBA to test if some condition is not met:

```
Sub IfNot()
```

```
Dim i As Integer
```

```
For i = 2 To 11
```

```
If Not Range("B" & i) = "West" Then
```

```
Result = "Not West"
```

```
Else
```

```
Result = "West"  
End If  
Range("C" & i) = Result  
Next i  
  
End Sub
```

This particular example checks if each cell in the range B2:B12 is not equal to "West" and then assigns either "Not West" or "West" to each corresponding cell in the range C2:C12.

The following example shows how to use this syntax in practice.

Example: How to Use IF NOT in VBA

Suppose we have the following dataset in Excel that shows the team name and division of various basketball teams:

	A	B	C	D	E	F
1	Team	Division	West Division?			
2	A	West				
3	B	East				
4	C	East				
5	D	North				
6	E	West				
7	F	South				
8	G	East				
9	H	West				
10	I	North				
11	J	West				
12						
13						
14						
15						
16						
17						
18						
19						

Suppose we would like to assign a value of "West" or "Not West" to each cell in column C based on whether or not each team belongs to the West division or not.

We can create the following macro to do so:

```
Sub IfNot()
```

```
Dim i As Integer
```

```
For i = 2 To 11
```

```
If Not Range("B" & i) = "West" Then
```

```
Result = "Not West"
```

Else

Result = "West"

End If

Range("C" & i) = Result

Next i

End Sub

When we run this macro, we receive the following output:

	A	B	C	D	E	F
1	Team	Division	West Division?			
2	A	West	West			
3	B	East	Not West			
4	C	East	Not West			
5	D	North	Not West			
6	E	West	West			
7	F	South	Not West			
8	G	East	Not West			
9	H	West	West			
10	I	North	Not West			
11	J	West	West			
12						
13						
14						
15						
16						
17						
18						
19						

The values in column C tell us whether or not each

division in column B is equal to West" or not.

For example:

Team A belongs to the West" so column C displays West"Team B belongs to the "East " so column C displays "Not West"Team C belongs to the "East " so column C displays "Not West"Team D belongs to the "North" so column C displays "Not West"

And so on.

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