

How can I use VBA to check if a cell is a number using the IsNumeric function?

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The IsNumeric function is a useful tool in Microsoft Excel's Visual Basic for Applications (VBA) that allows users to check if a cell contains a numerical value. This function evaluates the data in a cell and returns a Boolean value of True if it is a number, or False if it is not. By utilizing the IsNumeric function in VBA, users can efficiently validate the contents of a cell and perform different actions based on the result. This feature is particularly helpful for automating tasks and creating error-handling routines in Excel.

VBA: Use IsNumeric to Check if Cell is a Number

You can use the IsNumeric function in VBA to check if a given cell is a number.

This function will return True if the value in a given cell is recognized as a number.

Otherwise, the function will return False.

Here is one common way to use this function in practice:

```
Sub CheckNumeric()
```

```
Dim i As Integer
```

```
For i = 1 To 9
```

```
If IsNumeric(Range("A" & i)) = True Then
```

```
Range("B" & i) = "Numeric Value"
```

```
Else
```

Range("B" & i) = "Not a Numeric Value"

End IfNext i

End Sub

This particular macro will check if each cell in the range A1:A9 is a number.

If a cell is a number, then "Numeric Value" will be returned in the corresponding cell in the range B1:B9.

If a cell is not a number, then "Not a Numeric Value" will be returned instead.

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

Example: How to Use IsNumeric in VBA

Suppose we have the following column of values in Excel:

	A	B	C	D	E	F
1	10					
2	15.5					
3	12/25/2023					
4	19					
5	Hey					
6	7 Dogs					
7	11.2332					
8	500					
9	12%					
10						
11						
12						
13						
14						
15						
16						
17						
18						

Suppose we would like to check if each cell in column A is number.

We can create the following macro to do so:

Sub CheckNumeric()

Dim i As Integer

For i = 1 To 9

If IsNumeric(Range("A" & i)) = True Then

Range("B" & i) = "Numeric Value"

Else

Range("B" & i) = "Not a Numeric Value"

End IfNext i

End Sub

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

	A	B	C	D	E	F
1	10	Numeric Value				
2	15.5	Numeric Value				
3	12/25/2023	Not a Numeric Value				
4	19	Numeric Value				
5	Hey	Not a Numeric Value				
6	7 Dogs	Not a Numeric Value				
7	11.2332	Numeric Value				
8	500	Numeric Value				
9	12%	Numeric Value				
10						
11						
12						
13						
14						
15						
16						
17						
18						

Here are some interesting things to note from the output:

Numbers with decimals are recognized as numbers. Percentages are recognized as numbers. Dates are *not* recognized as numbers. Text with numbers are *not* recognized as numbers.

Note: You can find the complete documentation for the VBA IsNumeric function .

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