

How can I use VBA to find the last day of the month?

Authored by
stats writer

June 22, 2024

RECOMMENDED CITATION

stats writer (2024). *How can I use VBA to find the last day of the month?*.
PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=146764>

VBA, or Visual Basic for Applications, is a programming language commonly used for automating tasks in Microsoft Excel. With the use of VBA, it is possible to find the last day of any given month in Excel. This can be achieved by writing a simple code that takes into account the number of days in a month and the year, and then calculates the last day accordingly. This approach can save time and effort for users who frequently work with dates and need to determine the last day of the month for various purposes such as reporting or data analysis. By utilizing VBA, users can easily and accurately retrieve the last day of the month, making their tasks more efficient and streamlined.

Find Last Day of Month Using VBA (With Example)

You can use the `DateSerial()` function in VBA with a value of 0 for the day argument to find the last day of the month for a date in a particular cell.

For example, you can use the following syntax to find the last day of the month for the date in cell A1 and return this date in cell B1:

```
dateVal = DateValue(Range("A1"))
```

```
Range("B1").Value = DateSerial(Year(dateVal),  
Month(dateVal)+1, 0)
```

For example, if cell A1 contains 1/5/2023 then cell B1 will return 1/31/2023.

The following example shows how to use this function

in practice.

Example: Use VBA to Find Last Day of Month

Suppose we have the following dataset in Excel that contains information about sales made on various dates at some company:

	A	B	C	D	E
1	Date	Sales			
2	1/4/2023	14			
3	1/15/2023	19			
4	3/10/2023	33			
5	4/1/2023	48			
6	5/30/2023	35			
7	6/15/2023	20			
8	8/12/2023	25			
9	9/29/2023	24			
10	10/14/2023	19			
11	12/28/2023	16			
12					
13					
14					
15					
16					
17					

Suppose we would like to find the last day of the month for each date in column A and return the date in the corresponding cell in column C.

We can use the following syntax to do so:

Sub FirstDayOfMonth()

Dim i As Integer

For i = 2 To 11

dateVal = DateValue(Range("A" & i))

**Range("C" & i).Value = DateSerial(Year(dateVal),
Month(dateVal)+1, 0)**

Next i

End Sub

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

	A	B	C	D	E
1	Date	Sales	Last Day of Month		
2	1/4/2023	14	1/31/2023		
3	1/15/2023	19	1/31/2023		
4	3/10/2023	33	3/31/2023		
5	4/1/2023	48	4/30/2023		
6	5/30/2023	35	5/31/2023		
7	6/15/2023	20	6/30/2023		
8	8/12/2023	25	8/31/2023		
9	9/29/2023	24	9/30/2023		
10	10/14/2023	19	10/31/2023		
11	12/28/2023	16	12/31/2023		
12					
13					
14					
15					
16					
17					
18					

Each of the dates in column C represent the last day of the month for the corresponding date in column A.

Note #1: In the code we used For i = 2 to 11 since cells A2 to A11 contained the dates we were interested in. Feel free to change this range depending on the cell range you'd like to use.

Note #2: You can find the complete documentation for the DateSerial() function in VBA .