

# How can I use VBA to extract the month and year from a given date?

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## RECOMMENDED CITATION

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VBA, or Visual Basic for Applications, is a programming language commonly used in Microsoft Excel to automate tasks and manipulate data. With VBA, it is possible to extract the month and year from a given date by utilizing built-in functions and formatting tools. By combining the DATEPART and FORMAT functions, the month and year can be extracted from the date in a specific format. This allows users to efficiently organize and analyze data based on specific time periods, such as months and years. With the use of VBA, the process of extracting the month and year from a given date can be automated and streamlined, saving time and effort in data analysis and reporting.

## **VBA: Get Month and Year from Date**

**You can use the NumberFormat property in VBA to get the month and year from a date.**

**Here is one common way to use this property in practice:**

```
Sub GetMonthYear()
```

```
Dim i As Integer
```

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

```
Range("C" & i).Value = DateValue(Range("A" & i))
```

```
Range("C" & i).NumberFormat = "mm/yyyy"
```

```
Next i
```

```
End Sub
```

**This particular macro finds the month and year for each**

date in the range A2:A11 and displays these values in the corresponding cells in the range C2:C11.

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

### Example: Add Days to Date in VBA

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

	A	B	C	D	E
1	<b>Date</b>	<b>Sales</b>			
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 get the month and year for

**each cell in the date column.**

**We can create the following macro to do so:**

```
Sub GetMonthYear()
```

```
Dim i As Integer
```

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

```
Range("C" & i).Value = DateValue(Range("A" & i))
```

```
Range("C" & i).NumberFormat = "mm/yyyy"
```

```
Next i
```

```
End Sub
```

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

	A	B	C	D	E
1	<b>Date</b>	<b>Sales</b>	<b>Month and Year</b>		
2	1/4/2023	14	01/2023		
3	1/15/2023	19	01/2023		
4	3/10/2023	33	03/2023		
5	4/1/2023	48	04/2023		
6	5/30/2023	35	05/2023		
7	6/15/2023	20	06/2023		
8	8/12/2023	25	08/2023		
9	9/29/2023	24	09/2023		
10	10/14/2023	19	10/2023		
11	12/28/2023	16	12/2023		
12					
13					
14					
15					
16					
17					
18					
19					

**Notice that column C contains the month and year of each corresponding date in column A.**

**Note that we used the NumberFormat property to format the dates with two digits for the months and four digits for the years.**

**We could choose to display these values in a different format if we'd like.**

**For example, we could use the following syntax to display the month with only one digit (if the month only**

**contains one digit) and the year with two digits:**

**Sub GetMonthYear()**

**Dim i As Integer**

**For i = 2 To 11**

**Range("C" & i).Value = DateValue(Range("A" & i))**

**Range("C" & i).NumberFormat = "m/yy"**

**Next i**

**End Sub**

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

	A	B	C	D	E
1	<b>Date</b>	<b>Sales</b>	<b>Month and Year</b>		
2	1/4/2023	14	1/23		
3	1/15/2023	19	1/23		
4	3/10/2023	33	3/23		
5	4/1/2023	48	4/23		
6	5/30/2023	35	5/23		
7	6/15/2023	20	6/23		
8	8/12/2023	25	8/23		
9	9/29/2023	24	9/23		
10	10/14/2023	19	10/23		
11	12/28/2023	16	12/23		
12					
13					
14					
15					
16					
17					

**Feel free to play around with the different formatting options to display the month and year values however you'd like.**