

How can I format time in VBA?

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VBA, or Visual Basic for Applications, allows for the formatting of time in a variety of ways. This can be useful when working with time-based data or when presenting information in a specific time format. The time formatting function in VBA allows for the conversion of time values into a desired format, such as displaying the time in hours, minutes, and seconds or in a 12-hour format with AM/PM indicators.

To format time in VBA, the "Format" function is used, followed by the time value and the desired format code. For example, the code "Format(timeValue, "hh:mm:ss")" would display the time in hours, minutes, and seconds. Other format codes include "hh:mm AM/PM" for a 12-hour format and "hh:mm:ss.000" for milliseconds.

Using the "Format" function, time values can be easily manipulated and presented in a way that is understandable and relevant to the data being analyzed. This can save time and effort when working with large sets of time-based data.

Format Time in VBA (With Examples)

You can use the Format function in VBA with the following arguments to format times in Excel in a specific manner:

h: hours without zeros

hh: hours with zeros

n: minutes without zeros

nn: minutes with zeros

s: seconds without zeros

ss: seconds with zeros

AM/PM: Display AM/PM

The following example shows how to format times using VBA in practice.

Example: Format Times Using VBA

Suppose we have the following column of datetimes in Excel:

	A	B	C	D	E
1	Datetime				
2	1/1/23 4:15:33 AM				
3	2/5/23 6:08:00 AM				
4	3/14/23 7:12:55 AM				
5	4/22/23 1:13:59 PM				
6	5/1/23 4:59:24 PM				
7	5/5/23 5:58:44 PM				
8	10/12/23 10:34:01 PM				
9					
10					
11					
12					
13					
14					
15					
16					
17					

We can create the following macro to format the times in column A in specific ways and output the formatted times in columns B through E:

```
Sub FormatTime()
```

```
Dim i As Integer
```

For i = 2 To 8

Range("B" & i) = Format(Range("A" & i), "h")

Range("C" & i) = Format(Range("A" & i), "h:nn")

Range("D" & i) = Format(Range("A" & i), "h:nn:ss")

Range("E" & i) = Format(Range("A" & i), "h:nn:ss AM/PM")

Next i

End Sub

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

	A	B	C	D	E
1	Datetime	h	h:nn	h:nn:ss	h:nn:ss AM/PM
2	1/1/23 4:15:33 AM	4	4:15	4:15:33	4:15:33 AM
3	2/5/23 6:08:00 AM	6	6:08	6:08:00	6:08:00 AM
4	3/14/23 7:12:55 AM	7	7:12	7:12:55	7:12:55 AM
5	4/22/23 1:13:59 PM	13	13:13	13:13:59	1:13:59 PM
6	5/1/23 4:59:24 PM	16	16:59	16:59:24	4:59:24 PM
7	5/5/23 5:58:44 PM	17	17:58	17:58:44	5:58:44 PM
8	10/12/23 10:34:01 PM	22	22:34	22:34:01	10:34:01 PM
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					

Columns B through E now show each time in column A formatted in a specific way.

Note that you can also use the shortcut formats of Short Time, Medium Time and Long Time:

```
Sub FormatTime()
```

```
Dim i As Integer
```

```
For i = 2 To 8
```

```
Range("B" & i) = Format(Range("A" & i), "Short Time")
```

```
Range("C" & i) = Format(Range("A" & i), "Medium  
Time")
```

```
Range("D" & i) = Format(Range("A" & i), "Long Time")
```

```
Next i
```

```
End Sub
```

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

	A	B	C	D	E
1	Datetime	Short Time	Medium Time	Long Time	
2	1/1/23 4:15:33 AM	4:15	4:15 AM	4:15:33 AM	
3	2/5/23 6:08:00 AM	6:08	6:08 AM	6:08:00 AM	
4	3/14/23 7:12:55 AM	7:12	7:12 AM	7:12:55 AM	
5	4/22/23 1:13:59 PM	13:13	1:13 PM	1:13:59 PM	
6	5/1/23 4:59:24 PM	16:59	4:59 PM	4:59:24 PM	
7	5/5/23 5:58:44 PM	17:58	5:58 PM	5:58:44 PM	
8	10/12/23 10:34:01 PM	22:34	10:34 PM	10:34:01 PM	
9					
10					
11					
12					
13					
14					
15					
16					
17					

Columns B through D now show each time in column A formatted in a specific way.