

How to Convert Time Strings to Numerical Values in VBA Using TimeValue

Authored by
stats writer

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The TimeValue function in VBA (Visual Basic for Applications) is a useful tool for converting time data into a numerical value that can be used in calculations. This function takes a time string in the format of "hh:mm:ss" and returns a decimal representation of the time. This allows for easier manipulation and comparison of time values in VBA code.

One example of the application of the TimeValue function is in creating a program that tracks the total amount of time spent on a task. By using the TimeValue function, the program can easily convert the start and end time of the task into numeric values, which can then be subtracted to calculate the total time spent. This can be particularly useful in project management or time tracking applications.

Use TimeValue Function in VBA (With Example)

You can use the TimeValue function in VBA to return the time value from a given string.

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

```
Sub GetTimeValue()
```

```
Dim i As Integer
```

```
For i = 2 To 7
```

```
Range("B" & i) = TimeValue(Range("A" & i))
```

```
Next i
```

```
End Sub
```

This particular macro will extract the time value from

the datetimes in the range A2:A7 and return this time value in the corresponding range of B2:B7.

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

Example: How to Use TimeValue Function in VBA

Suppose we have the following column of datetimes in Excel:

	A	B	C	D
1	Times			
2	1/1/23 10:15:34 AM			
3	1/3/23 12:34:18 PM			
4	1/5/23 8:23:00 AM			
5	2/14/23 10:45:37 AM			
6	4/19/21 3:12:19 AM			
7	6/12/23 5:29:01 AM			
8				
9				
10				
11				
12				
13				
14				
15				
16				

Suppose we would like to extract the time from each datetime in column A and display it in column B.

We can create the following macro to do so:

```
Sub GetTimeValue()
```

```
Dim i As Integer
```

```
For i = 2 To 7
```

```
Range("B" & i) = TimeValue(Range("A" & i))
```

```
Next i
```

```
End Sub
```

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

	A	B	C	D
1	Times			
2	1/1/23 10:15:34 AM	10:15:34 AM		
3	1/3/23 12:34:18 PM	12:34:18 PM		
4	1/5/23 8:23:00 AM	8:23:00 AM		
5	2/14/23 10:45:37 AM	10:45:37 AM		
6	4/19/21 3:12:19 AM	3:12:19 AM		
7	6/12/23 5:29:01 AM	5:29:01 AM		
8				
9				
10				
11				
12				
13				
14				
15				
16				

Column B shows the time value for each datetime in column A.

For example:

**The TimeValue function returns 10:15:34 AM from 1/1/2023 10:15:34 AM
The TimeValue function returns 12:34:18 PM from 1/3/2023 12:34:18 PM
The TimeValue function returns 8:23:00 AM from 1/5/2023 8:23:00 AM**

And so on.

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