

How can I sort data by date in VBA, and what are some examples?

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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. Sorting data by date in VBA allows for efficient organization of information based on chronological order. This can be achieved by using the built-in functions and methods provided by VBA. For example, the ".Sort" method can be used to sort data in a specific column by date. Another option is to use the "DateSerial" function to convert dates into a numerical format, making it easier to sort. Additionally, the "DateValue" function can be used to extract the date from a text string. These are just a few examples of how VBA can be used to sort data by date, providing a more organized and streamlined approach to data management.

Sort by Date in VBA (With Examples)

You can use the following basic syntax in VBA to sort rows by date:

```
Sub SortByDate()
```

```
Range("A1:C10").Sort Key1:=Range("A1"),  
Order1:=xlAscending, Header:=xlYes
```

```
End Sub
```

This particular example sorts the rows in the range A1:C10 by the dates in column A from earliest to latest.

If you'd like to sort the rows by date from latest to earliest then you can specify Order1:=xlDescending instead.

Note that Header:=xlYes specifies that the first row

should be treated as a header row.

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

Example: Sort By Date Using VBA

Suppose we have the following dataset in Excel that contains information about sales and refunds at some store on various dates:

	A	B	C	D	E	F
1	Date	Sales	Refunds			
2	2/4/2023	14	3			
3	1/15/2023	20	4			
4	12/28/2023	25	4			
5	4/25/2023	25	3			
6	6/14/2023	24	5			
7	10/12/2023	29	7			
8	4/13/2023	50	8			
9	5/1/2023	23	2			
10	8/16/2023	29	3			
11						
12						
13						
14						
15						
16						
17						
18						

Suppose we would like to sort the rows by date from earliest to latest.

We can create the following macro to do so:

Sub SortByDate()

Range("A1:C10").Sort Key1:=Range("A1"),

Order1:=xlAscending, Header:=xlYes

End Sub

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

	A	B	C	D	E	F
1	Date	Sales	Refunds			
2	1/15/2023	20	4			
3	2/4/2023	14	3			
4	4/13/2023	50	8			
5	4/25/2023	25	3			
6	5/1/2023	23	2			
7	6/14/2023	24	5			
8	8/16/2023	29	3			
9	10/12/2023	29	7			
10	12/28/2023	25	4			
11						
12						
13						
14						
15						
16						
17						
18						

Notice that the rows are now sorted by date from earliest to latest date.

To instead sort the rows by date from latest to earliest, we we can specify `Order1:=xlDescending`:

Sub SortByDate()

```
Range("A1:C10").Sort      Key1:=Range("A1"),  
Order1:=xlDescending, Header:=xlYes
```

End Sub

	A	B	C	D	E	F
1	Date	Sales	Refunds			
2	12/28/2023	25	4			
3	10/12/2023	29	7			
4	8/16/2023	29	3			
5	6/14/2023	24	5			
6	5/1/2023	23	2			
7	4/25/2023	25	3			
8	4/13/2023	50	8			
9	2/4/2023	14	3			
10	1/15/2023	20	4			
11						
12						
13						
14						
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Notice that the rows are now sorted by date from latest to earliest date.

Note #1: In this example we sorted by one column.

However, you can specify more Keys to sort by multiple columns.

Note #2: You can find the complete documentation for the VBA Sort method .

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