

How can I use the SORT function in Excel to organize data in a specific order?

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The SORT function in Excel allows users to organize data in a specific order to improve the readability and analysis of their data. This function allows for the sorting of data in ascending or descending order based on chosen criteria, such as numerical or alphabetical order. By using the SORT function, users can easily rearrange their data and group related information together, making it easier to identify patterns and trends within the data. This can be particularly useful for tasks such as creating charts, tables, and reports. Overall, the SORT function provides a convenient and efficient way to organize and manipulate data in Excel.

The SORT function sorts the contents of a range or array.

In this example, we're sorting by Region, Sales Rep, and Product individually with `=SORT(A2:A17)`, copied across cells F2, H2, and J2.

	A	B	C	D	E	F	G	H	I	J
1	Region	Sales Rep	Product	Units		Region		Sales Rep		Product
2	East	Tom	Apple	6,380		East		Amy		Apple
3	West	Fred	Grape	5,619		East		Amy		Apple
4	North	Amy	Pear	4,565		East		Fred		Apple
5	South	Sal	Banana	5,323		East		Fred		Apple
6	East	Fritz	Apple	4,394		North		Fritz		Banana
7	West	Sravan	Grape	7,195		North		Fritz		Banana
8	North	Xi	Pear	5,231		North		Hector		Banana
9	South	Hector	Banana	2,427		North		Hector		Banana
10	East	Tom	Banana	4,213		South		Sal		Grape
11	West	Fred	Pear	3,239		South		Sal		Grape
12	North	Amy	Grape	6,420		South		Sravan		Grape
13	South	Sal	Apple	1,310		South		Sravan		Grape
14	East	Fritz	Banana	6,274		West		Tom		Pear
15	West	Sravan	Pear	4,894		West		Tom		Pear
16	North	Xi	Grape	7,580		West		Xi		Pear
17	South	Hector	Apple	9,814		West		Xi		Pear

SORT returns a sorted array of the elements in an array. The returned array is the same shape as the provided array argument.

`=SORT(array,,)`

Argument	Description
array Required	The range, or array to sort
Optional	A number indicating the row or column to sort by
Optional	A number indicating the desired sort order; 1 for ascending order (default), -1 for descending order
Optional	A logical value indicating the desired sort direction; FALSE to sort by row (default), TRUE to sort by column

Notes:

Where `sort_index` is not provided, `row1/col1` will be presumed. Where `order` is not provided, ascending order will be presumed. By default Excel will sort by row, and will only sort by column where `by_col` is TRUE. When `by_col` is FALSE or missing Excel will sort by row.

The SORT function is provided to sort data in an array. If you want to sort data in the grid, it's better to use the [SORTBY function](#), as it is more flexible. SORTBY will respect column additions/deletions, because it references a range, where SORT references a column index number.

An array can be thought of as a row of values, a column of values, or a combination of rows and columns of values. In the example above, the source array for our SORT formula is range A5:D20.

The SORT function will return an array, which will spill if it's the final result of a formula. This means that Excel will dynamically create the appropriate sized array range when you press **ENTER**. If your supporting data is in an [Excel Table](#), then the array will automatically resize as you add or remove data from your array range if you're using [Structured References](#). For more details see this article on [Spilled Array Behavior](#).

Excel has limited support for dynamic arrays between workbooks, and this scenario is only supported when **both** workbooks are open. If you close the source workbook, any linked dynamic array formulas will return a [#REF! error](#) when they are refreshed.

Examples

Sort a range of values in descending order.

fx			=SORT(D2:D11,1,-1)		
	D	E	F		
	Units		Units		
	622		961		
	961		783		
	691		691		
	445		650		
	378		622		
	483		483		
	650		445		
	783		404		
	142		378		
	404		142		

Use SORT and FILTER together to sort a range in ascending order, and limit it to values over 5,000.

H2		fx		=SORT(FILTER(C2:D17,D2:D17>F2,""),2,1)					
	A	B	C	D	E	F	G	H	I
1	Region	Sales Rep	Product	Units		Criterion		Product	Units
2	East	Tom	Apple	6,380		5,000		Pear	5,231
3	West	Fred	Grape	5,619				Banana	5,323
4	North	Amy	Pear	4,565				Grape	5,619
5	South	Sal	Banana	5,323				Banana	6,274
6	East	Fritz	Apple	4,394				Apple	6,380
7	West	Sravan	Grape	7,195				Grape	6,420
8	North	Xi	Pear	5,231				Grape	7,195
9	South	Hector	Banana	2,427				Grape	7,580
10	East	Tom	Banana	4,213				Apple	9,814
11	West	Fred	Pear	3,239					
12	North	Amy	Grape	6,420					
13	South	Sal	Apple	1,310					
14	East	Fritz	Banana	6,274					
15	West	Sravan	Pear	4,894					
16	North	Xi	Grape	7,580					
17	South	Hector	Apple	9,814					

Need more help?

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