

How can I use VBA to copy only visible rows from one sheet to another sheet?

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VBA, or Visual Basic for Applications, is a programming language that allows users to automate tasks in Microsoft Excel. One useful application of VBA is to copy only visible rows from one sheet to another sheet. This can be achieved by using the "SpecialCells" method to identify and select the visible cells, followed by the "Copy" and "Paste" functions to transfer the selected data to the desired sheet. This allows users to efficiently transfer relevant data without copying any hidden or filtered rows, saving time and effort. With the ability to customize and automate this process, VBA offers a powerful solution for managing and manipulating data in Excel.

VBA: Copy Visible Rows to Another Sheet

You can use the following syntax in VBA to copy only the visible rows from one sheet to another:

Sub CopyVisibleRows()

Dim sourceWS As Worksheet

Dim destinationWS As Worksheet

Set sourceWS = ThisWorkbook.Sheets("Sheet1")

Set destinationWS = ThisWorkbook.Sheets("Sheet2")

sourceWS.Range("A1:D999").SpecialCells(xlCellTypeVisible).Copy

destinationWS.Cells(1, 1).PasteSpecial

Application.CutCopyMode = False

End Sub

This particular macro will copy each visible row in the range A1:D999 of Sheet1 and paste them starting in cell A1 of Sheet2.

Note: The line `Application.CutCopyMode = False` specifies that the cut and copy mode should be turned off after running the macro.

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

Example: Copy Visible Rows to Another Sheet Using VBA

Suppose we have the following dataset in Sheet1 that contains information about various basketball players:

	A	B	C	D	E	F
1	Team	Points	Assists			
2	Mavs	22	3			
3	Mavs	20	8			
4	Rockets	14	8			
5	Rockets	22	6			
6	Spurs	18	9			
7	Spurs	13	12			
8	Pacers	40	5			
9	Pacers	33	4			
10						
11						
12						
13						
14						
15						
16						
17						

Sheet1 Sheet2 +

Now suppose we apply a filter to the dataset to only show the rows where the team name is equal to Mavs or Spurs:

	A	B	C	D	E
1	Team	Points	Assists		
2	Mavs	22	3		
3	Mavs	20	8		
6	Spurs	18	9		
7	Spurs	13	12		
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					

Sheet1 | Sheet2 | +

Now suppose we would like to use VBA to only copy the visible cells in Sheet1 to Sheet2.

We can create the following macro to do so:

Sub CopyVisibleRows()

Dim sourceWS As Worksheet

Dim destinationWS As Worksheet

Set sourceWS = ThisWorkbook.Sheets("Sheet1")

Set destinationWS = ThisWorkbook.Sheets("Sheet2")

```
sourceWS.Range("A1:D999").SpecialCells(xlCellTypeVisible).Copy
```

```
destinationWS.Cells(1, 1).PasteSpecial  
Application.CutCopyMode = False
```

```
End Sub
```

When we run this macro, we receive the following output in Sheet2:

	A	B	C	D	E	F
1	Team	Points	Assists			
2	Mavs	22	3			
3	Mavs	20	8			
4	Spurs	18	9			
5	Spurs	13	12			
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						

Notice that each row that was visible in Sheet1 has

been copy and pasted into Sheet2.

Note #1: We used xlCellTypeVisible in the macro to specify that we only wanted to copy the cells that were visible.

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