

INDIRECT function in Excel

Use the INDIRECT function in Excel to convert a text string into a valid reference. You can use the & operator to create text strings.

✦ Cell Reference

Use the INDIRECT function in Excel to convert a text string into a valid cell reference.

1. For example, take a look at the INDIRECT function below.

The screenshot shows the Excel formula bar with the formula `=INDIRECT(A1)` entered in cell B1. The spreadsheet grid shows the following data:

	A	B	C	D	E	F	G	H	I
1	D1	500		500					
2									

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Explanation: =INDIRECT(A1) reduces to =INDIRECT("D1"). The INDIRECT function converts the text string "D1" into a valid cell reference. In other words, =INDIRECT("D1") reduces to =D1.

2. The simple INDIRECT function below produces the exact same result.

The screenshot shows the Excel formula bar with the formula `=INDIRECT("D1")` entered in cell B1. The spreadsheet grid below shows the following data:

	A	B	C	D	E	F	G	H	I
1		500		500					
2									

3. Do we really need the INDIRECT function? Yes. Without using the INDIRECT function, this

would be the result.

B1		:	✕ ✓ <i>fx</i>		=A1				
	A	B	C	D	E	F	G	H	I
1	D1	D1		500					
2									

4. Use the & operator to join the string "D" with the value in cell A1.

B1		:	✕ ✓ <i>fx</i>		=INDIRECT("D"&A1)				
	A	B	C	D	E	F	G	H	I
1	1	500		500					
2									

Explanation: the formula above reduces to =INDIRECT("D1"). Again, =INDIRECT("D1") reduces to =D1.

◆ Range Reference

Use the INDIRECT function in Excel to convert a text string into a valid range reference. For example, use SUM and INDIRECT.

B1				fx		=SUM(INDIRECT("D"&A1&":D"&A2))				
	A	B	C	D	E	F	G	H	I	
1	3	40		2						
2	6			6						
3				10						
4				10						
5				10						
6				10						
7				8						
8										

Explanation: the formula above reduces to =SUM(INDIRECT("D3:D6")). The INDIRECT function converts the text string "D3:D6" into a valid range reference. In other words, =SUM(INDIRECT("D3:D6")) reduces to =SUM(D3:D6).

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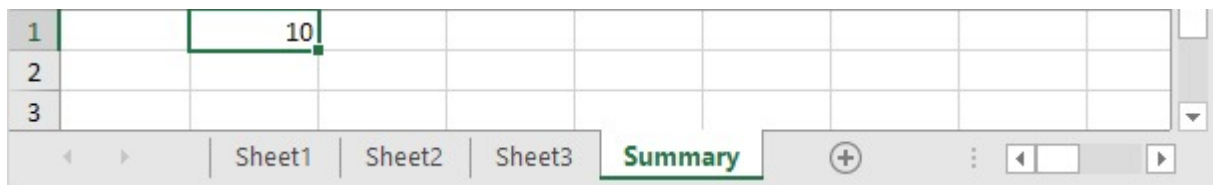
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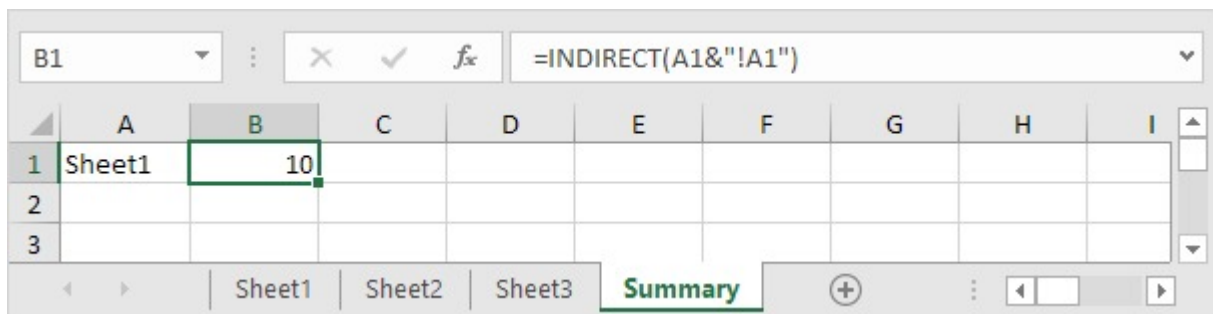
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The screenshot shows the Excel formula bar with the formula `=Sheet1!A1` entered. The formula bar includes a dropdown menu on the left showing 'B1', a separator icon, and buttons for undo (X), redo (checkmark), and insert function (fx). The formula text is displayed in the main bar, and a dropdown arrow is on the right. Below the formula bar, the worksheet grid is visible, showing columns A through I and row 1. Cell B1 is highlighted in green.



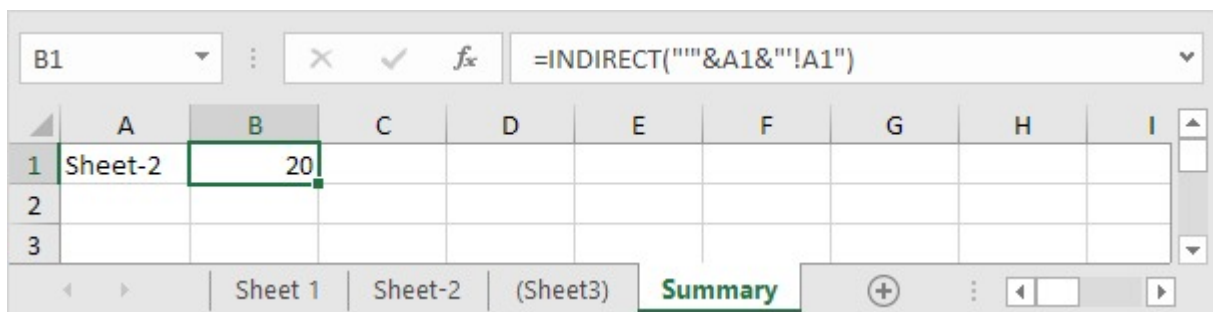
Note: cell A1 on Sheet1 contains the value 10. Cell A1 on Sheet2 contains the value 20. Cell A1 on Sheet3 contains the value 30.

2. On the Summary sheet, enter the INDIRECT function shown below. Use the & operator to join the sheet name in cell A1 with "!A1".



Explanation: the formula above reduces to =INDIRECT("Sheet1!A1"). The INDIRECT function converts the text string "Sheet1!A1" into a valid worksheet reference. In other words, =INDIRECT("Sheet1!A1") reduces to =Sheet1!A1.

3. If your sheet names contain spaces or other special characters, enclose the sheet name in single quotation marks. Modify the INDIRECT function as shown below.



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