

Excel[®] 2016

The Fast and Easy Way to Learn









by Paul McFedries



Teach Yourself VISUALLY[™] Excel[®] 2016

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Paul McFedries is a full-time technical writer. He has been authoring computer books since 1991 and has more than 85 books to his credit. Paul's books have sold more than four million copies worldwide. These books include the Wiley titles *Teach Yourself VISUALLY Windows 10, Windows 10 Simplified, The Facebook Guide for People Over 50, iPhone 6 Portable Genius*, and *iPad Portable Genius*. Paul is also the proprietor of Word Spy (www.wordspy.com), a website that tracks new words and phrases as they enter the language. Paul invites you to drop by his personal website at www.mcfedries.com or follow him on Twitter @wordspy.

Author's Acknowledgments

It goes without saying that writers focus on text, and I certainly enjoyed focusing on the text that you will read in this book. However, this book is more than just the usual collection of words and phrases designed to educate and stimulate the mind. A quick thumb through the pages will show you that this book is also chock-full of treats for the eye, including copious screenshots, beautiful colors, and sharp fonts. Those sure make for a beautiful book, and that beauty comes from a lot of hard work by the production team at SPi Global. Of course, what you read in this book must also be accurate, logically presented, and free of errors. Ensuring all of this was an excellent group of editors that I got to work with directly, including project and copy editor Lynn Northrup and technical editor Donna Baker. Thanks to both of you for your exceptional competence and hard work. Thanks, as well, to Aaron Black for asking me to write this book.

How to Use This Book

Who This Book Is For

This book is for the reader who has never used this particular technology or software application. It is also for readers who want to expand their knowledge.

The Conventions in This Book

1 Steps

This book uses a step-by-step format to guide you easily through each task. Numbered steps are actions you must do; bulleted steps clarify a point, step, or optional feature; and indented steps give you the result.

2 Notes

Notes give additional information — special conditions that may occur during an operation, a situation that you want to avoid, or a cross reference to a related area of the book.

3 Icons and Buttons

Icons and buttons show you exactly what you need to click to perform a step.

4 Tips

Tips offer additional information, including warnings and shortcuts.

5 Bold

Bold type shows command names, options, and text or numbers you must type.

6 Italics

Italic type introduces and defines a new term.

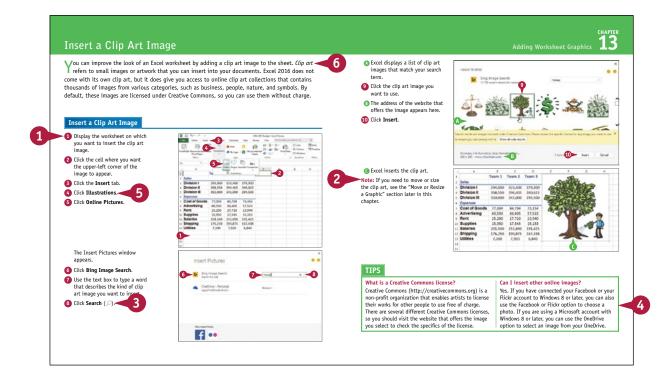


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	A	В
1	Full Name	First Name
2	Maria Anders	Maria
3	Ana Trujillo	Ana
4	Antonio Moreno	Antonio
5	Thomas Hardy	Thomas
6	Christina Berglund	Christina
7	Hanna Moos	Hanna
8	Frédérique Citeaux	Frédérique
9	Martín Sommer	Martín
10	Laurence Lebihan	Laurence
11	Elizabeth Lincoln	Elizabeth
12	Victoria Ashworth	Victoria
13	Patricio Simpson	Patricio
14	Francisco Chang	Francisco
	Man = 18/2	

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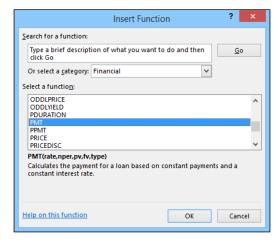
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Number Alignment Font Border Fill Protection General Sample Sample </th <th></th> <th></th> <th>Forr</th> <th>nat Cell</th> <th>S</th> <th>?</th> <th>×</th>			Forr	nat Cell	S	?	×
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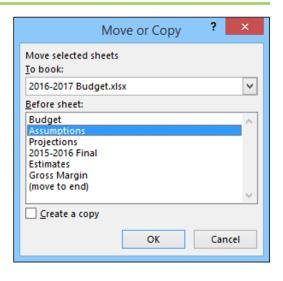
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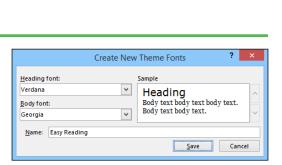
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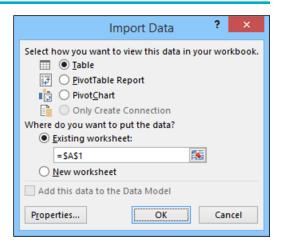
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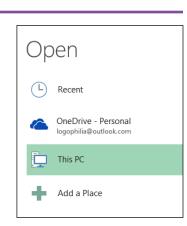


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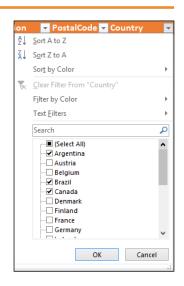
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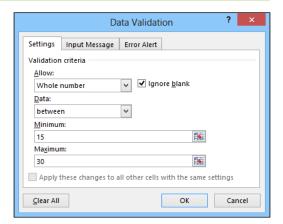
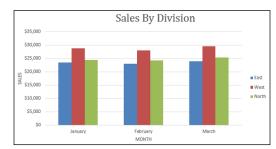


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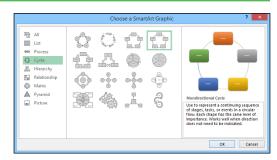
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	Highlight Changes ?	×
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Wh <u>o</u> :	Everyone	~
Whe <u>r</u> e:		1
	t changes on screen ges on a new sheet OK Cance	21

CHAPTER 1

Working with Ranges

In Excel, a *range* is a collection of two or more cells that you work with as a group rather than separately. This enables you to fill the range with values, move or copy the range, sort the range data, and insert and delete ranges. You learn these and other range techniques in this chapter.

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Select a Range
Fill a Range with the Same Data
Fill a Range with a Series of Values
Flash Fill a Range
Move or Copy a Range
Insert a Row or Column
Insert a Cell or Range
Delete Data from a Range
Delete a Range
Hide a Row or Column
Freeze Rows or Columns
Merge Two or More Cells
Transpose Rows and Columns
Select and Enter Data Using Touch Gestures

Select a Range

To work with a range in Excel, you must first select the cells that you want to include in the range. After you select the range, you can fill it with data, move it to another part of the worksheet, format the cells, and perform the other range-related tasks that you learn about in this chapter.

You can select a range as a rectangular group of cells, as a collection of individual cells, or as an entire row or column.

Select a Range

Select a Rectangular Range

- Position the mouse () over the first cell you want to include in the range.
- Click and drag the D over the cells that you want to include in the range.
- A Excel selects the cells.
- **3** Release the mouse button.

Select a Range of Individual Cells

- 1 Click in the first cell that you want to include in the range.
- 2 Hold down **Cirrl** and click in each of the other cells that you want to include in the range.
- B Each time you click in a cell, Excel adds it to the range.
- 3 Release Ctrl.

d	Α	В	С	D	F	G	Н
1							
2		Title	Year	Director			
3		Alien	1979	Ridley Scott			
4		An Angel from Texas	1940	Ray Enright			
5		Big	1988	Penny Marshall			
6		The Big Sleep	1946	Howard Hawks			
7		Blade Runner	. 982	Ridley Scott			
8		A Christmas Carol	15 1	Brian Hurst	A —		
9		Christmas In July	194L	Preston Sturges			
10		A Clockwork Orange	1971	Ttanley Kubrick			
11		Die Hard	1991	J n McTiernan			
12		Old Ironsides	1926	Jan Cruze			
13		An Old Spanish Custom	1936	Adria runel			
14		A Perfect World	1993	Clint Ea yood			
15		Perfectly Normal	1990	Yves Simo			
16		The Shining	1980	Stanley Kub			
17		The Terminator	1984	James Cameron 🗘 -	2		
18							
19 20							

4	А	B	С	D	F	G	Н
1							
2		Title	Year	Director			
3		Alien	1979	Ridley Scott			
4		An Angel from Texas	1940	Ray Enright			
5		Big	1988	Penny Marshall			
6		The Big Sleep	1946	Howard Hawks			
7	2	Blade Runner 🛛 <	B 1982	Ridley Scott			
8		A Christmas Carol	1951	Brian Hurst			
9		Christmas In July	1940	Preston Sturges			
10		A Clockwork Orange	1971	Stanley Kubrick			
11	2	Die Hard 🧹	B 1991	John McTiernan			
12		Old Ironsides	1926	James Cruze			
13		An Old Spanish Custom	1936	Adrian Brunel			
14		A Perfect World	1993	Clint Eastwood			
15		Perfectly Normal	1990	Yves Simoneau			
16		The Shining	1980	Stanley Kubrick			
17	2	The Terminator 🖧 <	B 1984	James Cameron			
18							
19 20							
20							

Working with Ranges

CHAPTER

Select an Entire Row

- Position the mouse (♪) over the header of the row you want to select (♪ changes to →).
- Click the row header.
- C Excel selects the entire row.

To select multiple rows, click and drag across the row headers or hold down **Ctrl** and click each row header.

	A B	С	D	F	G	H
V						
- <u>C</u> +	Title	Year	Director			
3	Alien	1979	Ridley Scott			
4	An Angel from Texas	1940	Ray Enright			
5	Big	1988	Penny Marshall			
6	The Big Sleep	1946	Howard Hawks			
7	Blade Runner	1982	Ridley Scott			
8	A Christmas Carol	1951	Brian Hurst			
9	Christmas In July	1940	Preston Sturges			
10	A Clockwork Orange	1971	Stanley Kubrick			
11	Die Hard	1991	John McTiernan			
12	Old Ironsides	1926	James Cruze			
13	An Old Spanish Custom	1936	Adrian Brunel			
14	A Perfect World	1993	Clint Eastwood			
15	Perfectly Normal	1990	Yves Simoneau			
16	The Shining	1980	Stanley Kubrick			
17	The Terminator	1984	James Cameron			
18						
19 20						

Select an Entire Column

- Position the mouse () over the header of the column you want to select (changes to).
- 2 Click the column header.
- Excel selects the entire column.

To select multiple columns, click and drag across the column headers, or hold down Ctrl and click each column header.

	A 2 + B	С	D	F	G	Н	
1	6	1					
2	Title	Year	Director				
3	Alien	1979	Ridley Scott				
4	An Angel from Texas	1940	Ray Enright				
5	Big	1988	Penny Marshall				
6	The Big Sleep	1946	Howard Hawks				
7	Blade Runner	1982	Ridley Scott				
8	A Christmas Carol	1951	Brian Hurst				
9	Christmas In July	1940	Preston Sturges				
10	A Clockwork Orange	1971	Stanley Kubrick				
1	Die Hard	1991	John McTiernan				
2	Old Ironsides	1926	James Cruze				
13	An Old Spanish Custom	1936	Adrian Brunel				
4	A Perfect World	1993	Clint Eastwood				
15	Perfectly Normal	1990	Yves Simoneau				
16	The Shining	1980	Stanley Kubrick				
17	The Terminator	1984	James Cameron				
8							
19 20							
20							

TIPS

Are there keyboard techniques I can use to select a range?

Yes. To select a rectangular range, navigate to the first cell that you want to include in the range, hold down Shift, and then press \leftarrow or \checkmark to extend the selection. To select an entire row, navigate to any cell in the row and press Shift + Spacebar. To select an entire column, navigate to any cell in the column and then press Ctrl + Spacebar.

Is there an easy way to select every cell in the worksheet?

Yes. There are two methods you can use. Either press Ctrl+A, or click the **Select All** button (\checkmark) in the

upper-left corner of the worksheet (A).

		А	В
	1		
•	2		Title
	3		Alien
	4		An Angel from Texas

Fill a Range with the Same Data

Tf you need to fill a range with the same data, you can save time by getting Excel to fill the range f L for you. The AutoFill feature makes it easy to fill a vertical or horizontal range with the same value, but you can also fill any selected range. This method is much faster than manually entering the same data in each cell.

See the previous section, "Select a Range," to learn how to select a range of cells.

Fill a Range with the Same Data

Fill a Vertical or Horizontal Range

- 1 In the first cell of the range you want to work with, enter the data you want to fill.
- Position the mouse () over the bottom-right corner of the cell (\Box changes to +).
- 3 Click and drag 🕂 down to fill a vertical range or across to fill a horizontal range.
- Release the mouse button.
- A Excel fills the range with the initial cell value.

4	Α	В	С	
1	Category Name	Product Name	Quantity Per Unit	Image
2	Beverages	Str 2	10 boxes x 20 bags	
3		Chang	24 - 12 oz bottles	
4		Chartreuse verte	750 cc per bottle	
5		Côte de Blaye	12 - 75 cl bottles	
6		Ipoh Coffee	16 - 500 g tins	
7		Lakkalikööri	500 ml	
8		Laughing Lumberjack Lager	24 - 12 oz bottles	
9		Outback Lager	24 - 355 ml bottles	
10		Rhönbräu Klosterbier	24 - 0.5 l bottles	
11		Sasquatch Ale	24 - 12 oz bottles	
12		Steeleye Stout	24 - 12 oz bottles	
13	3	Aniseed Syrup	12 - 550 ml bottles	
14		Beverages ton's Cajun Seasoning	48 - 6 oz jars	
15		Genen Shouyu	24 - 250 ml bottles	
	A	В	С	
1	A Category Name		C Quantity Per Unit	Image
				Image
1	Category Name	Product Name	Quantity Per Unit	Image
1 2	Category Name Beverages	Product Name Chai	Quantity Per Unit 10 boxes x 20 bags	Image
1 2 3	Category Name Beverages Beverages	Product Name Chai Chang	Quantity Per Unit10 boxes x 20 bags24 - 12 oz bottles	Image
1 2 3 4	Category Name Beverages Beverages Beverages	Product Name Chai Chang Chartreuse verte	Quantity Per Unit 10 boxes x 20 bags 24 - 12 oz bottles 750 cc per bottle	Image
1 2 3 4 5	Category Name Beverages Beverages Beverages Beverages	Product Name Chai Chang Chartreuse verte Côte de Blaye	Quantity Per Unit 10 boxes x 20 bags 24 - 12 oz bottles 750 cc per bottle 12 - 75 cl bottles	Image
1 2 3 4 5 6	Category Name Beverages Beverages Beverages Beverages Beverages	Product Name Chai Chang Chartreuse verte Côte de Blaye Ipoh Coffee	Quantity Per Unit 10 boxes x 20 bags 24 - 12 oz bottles 750 cc per bottle 12 - 75 cl bottles 16 - 500 g tins	Image
1 2 3 4 5 6 7	Category Name Beverages Beverages Beverages Beverages Beverages Beverages	Product Name Chai Chang Chartreuse verte Côte de Blaye Ipoh Coffee Lakkalikööri	Quantity Per Unit 10 boxes x 20 bags 24 - 12 oz bottles 750 cc per bottle 12 - 75 cl bottles 16 - 500 g tins 500 ml	Image
1 2 3 4 5 6 7 8 9	Category Name Beverages Beverages Beverages Beverages Beverages Beverages Beverages	Product Name Chai Chang Chartreuse verte Côte de Blaye Ipoh Coffee Lakkalikööri Laughing Lumberjack Lager	Quantity Per Unit 10 boxes x 20 bags 24 - 12 oz bottles 750 cc per bottle 12 - 75 cl bottles 16 - 500 g tins 500 ml 24 - 12 oz bottles	Image
1 2 3 4 5 6 7 8 9 10	Category Name Beverages Beverages Beverages Beverages Beverages Beverages Beverages Beverages	Product Name Chai Chang Chartreuse verte Côte de Blaye Ipoh Coffee Lakkalikööri Laughing Lumberjack Lager Outback Lager	Quantity Per Unit 10 boxes x 20 bags 24 - 12 oz bottles 750 cc per bottle 12 - 75 cl bottles 16 - 500 g tins 500 ml 24 - 12 oz bottles 24 - 12 oz bottles	Image
1 2 3 4 5 6 7 8 9 10 11	Category Name Beverages Beverages Beverages Beverages Beverages Beverages Beverages Beverages Beverages	Product Name Chai Chang Chartreuse verte Côte de Blaye Ipoh Coffee Lakkalikööri Laughing Lumberjack Lager Outback Lager Rhönbräu Klosterbier	Quantity Per Unit 10 boxes x 20 bags 24 - 12 oz bottles 750 cc per bottle 12 - 75 cl bottles 16 - 500 g tins 500 ml 24 - 12 oz bottles 24 - 12 oz bottles 24 - 12 oz bottles 24 - 0.5 l bottles	Image
1 2 3 4 5 6 7 8	Category Name Beverages Beverages Beverages Beverages Beverages Beverages Beverages Beverages Beverages Beverages Beverages Beverages Beverages	Product Name Chai Chang Chartreuse verte Côte de Blaye Ipoh Coffee Lakkalikööri Laughing Lumberjack Lager Outback Lager Rhönbräu Klosterbier Sasquatch Ale Steeleye Stout Aniseed Syrup	Quantity Per Unit 10 boxes x 20 bags 24 - 12 oz bottles 750 cc per bottle 12 - 75 cl bottles 16 - 500 g tins 500 ml 24 - 12 oz bottles 24 - 0.5 l bottles 24 - 12 oz bottles 24 - 0.5 l bottles 24 - 12 oz bottles	Image
1 2 3 4 5 6 7 8 9 10 11 12	Category Name Beverages Beverages Beverages Beverages Beverages Beverages Beverages Beverages Beverages Beverages Beverages Beverages Beverages	Product Name Chai Chang Chartreuse verte Côte de Blaye Ipoh Coffee Lakkalikööri Laughing Lumberjack Lager Outback Lager Rhönbräu Klosterbier Sasquatch Ale Steeleye Stout	Quantity Per Unit 10 boxes x 20 bags 24 - 12 oz bottles 750 cc per bottle 12 - 75 cl bottles 16 - 500 g tins 500 ml 24 - 12 oz bottles 24 - 0.5 l bottles 24 - 12 oz bottles	

Working with Ranges

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Fill a Selected Range

Select the range you want to fill.

2 Type the text, number, or other data.



B Excel	fills	the	range	with the
value	you	typ	ed.	

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	A	В	С	D	E	F	G	Н		J	K
1	Test D										
2	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	
3	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	
4	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	
5	0.75	0.75	0.75 0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75 0.75	
0	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	

TIP

How do I fill a vertical or horizontal range without also copying the formatting of the original cell? Follow these steps:

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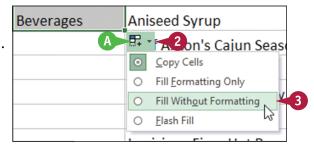
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- 1 Perform steps 1 to 4 to fill the data.
- 🚯 Excel displays the AutoFill Options smart tag (믅).
- 2 Click the AutoFill Options T.
- 3 Click Fill Without Formatting.

Excel removes the original cell's formatting from the copied cells.



Fill a Range with a Series of Values

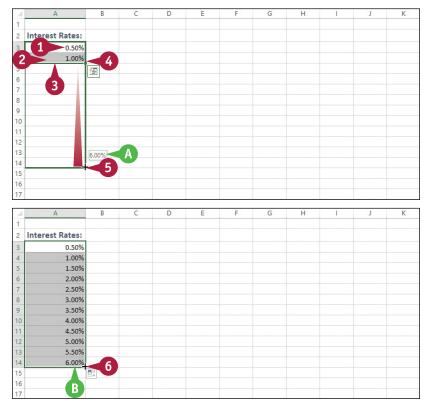
If you need to fill a range with a series of values, you can save time by using the AutoFill feature to create the series for you. AutoFill can fill a series of numeric values such as 5, 10, 15, 20, and so on; a series of date values such as January 1, 2016, January 2, 2016, and so on; or a series of alphanumeric values such as Chapter 1, Chapter 2, Chapter 3, and so on.

You can also create your own series with a custom step value, which determines the numeric difference between each item in the series.

Fill a Range with a Series of Values

AutoFill a Series of Numeric, Date, or Alphanumeric Values

- 1 Click in the first cell and type the first value in the series.
- Click in an adjacent cell and type the second value in the series.
- 3 Select the two cells.
- Position the mouse () over the bottom-right corner of the second cell (changes to +).
- Click and drag + down to fill a vertical range or across to fill a horizontal range.
- As you drag through each cell, Excel displays the series value that it will add to the cell.
- 6 Release the mouse button.
- Excel fills the range with a series that continues the pattern of the initial two cell values.



Working with Ranges

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Fill a Custom Series of Values

- 1 Click in the first cell and type the first value in the series.
- 2 Select the range you want to fill, including the initial value.
- **3** Click the **Home** tab.
- 4 Click Fill (👿).
- 6 Click Series.

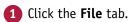
The Series dialog box appears.

- 7 If you selected Date in step 6, select an option in the Date unit group (C changes to).
- 8 In the Step value text box, type the value you want to use.
- 🧿 Click **OK**.
- C Excel fills the range with the series you created.

TIP

Can I create my own AutoFill series?

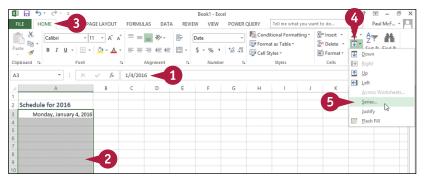
Yes. You can create a *custom list*, which is a series of text values. When you add the first value in your custom list, you can then use AutoFill to fill a range with the rest of the series. Follow these steps:

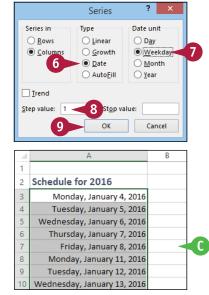


2 Click **Options**.

The Excel Options dialog box appears.

3 Click Advanced.





es	Scroll down to the General section and then click Edit Custom Lists.
our	The Custom Lists dialog box appears.
e	Click NEW LIST.
	In the List entries box, type each item in your list, and press Enter after each item.
	Click Add.
	Click OK to return to the Excel Options dialog box.
	Click OK .

Flash Fill a Range

You can save time and effort by using the Flash Fill feature in Excel to automatically fill a range of data based on a sample pattern that you provide.

Although there are many ways to use Flash Fill, the two most common are flash filling a range with extracted data and flash filling a range with formatted data. For example, if you have a column of full names, you might want to create a new column that includes just the first names extracted from the original column. Similarly, if you have a column of phone numbers in the form 1234567890, you might want a new column that formats the numbers as (123) 456-7890.

1

Flash Fill a Range

Flash Fill a Range with Extracted Data

- Make sure the column of original data has a heading.
- 2 Type a heading for the column of extracted data.
- **3** Type the first value you want in the new column.
- 4 Begin typing the second value.
- A Excel recognizes the pattern and displays suggestions for the rest of the column.
- 5 Press Enter.
- Excel flash fills the column with the extracted data.

	A	В	C	D	E
	Full Name	First Name < 2	Position	Phone	
2	Maria Anders	Maria	Sales Representative	3175551262	
3	Ana Trujillo	Ana < 🖌	Owner	3175552505	
4	Antonio Moreno	Antonio	Owner	3175559773	
5	Thomas Hardy	Thomas	Sales Representative	3175556469	
6	Christina Berglund	Christina	Order Administrator	3175556184	
7	Hanna Moos	Hanna	Sales Representative	3175551740	
8	Frédérique Citeaux	Frédérique	Marketing Manager	3175551573	
9	Martín Sommer	Martín	Owner	3175558600	
10	Laurence Lebihan	Laurence	Owner	3175558383	
11	Elizabeth Lincoln	Elizabeth	Accounting Manager	3175554298	
12	Victoria Ashworth	Victoria	Sales Representative	3175553202	
13	Patricio Simpson	Patricio	Sales Agent	3175554835	
14	Francisco Chang	Francisco	Marketing Manager	3175553170	
15	Yang Wang	Yang	Owner	3175558150	
16	Pedro Afonso	Pedro	Sales Associate	3175550751	

	А	В	С	D	E
1	Full Name	First Name	Position	Phone	
2	Maria Anders	Maria	Sales Representative	3175551262	
3	Ana Trujillo	Ana	Owner	3175552505	
4	Antonio Moreno	Antonio	🖳 ner	3175559773	
5	Thomas Hardy	Thomas	Sales Representative	3175556469	
6	Christina Berglund	Christina	Order Administrator	3175556184	
7	Hanna Moos	Hanna	Sales Representative	3175551740	
8	Frédérique Citeaux	Frédérique	Marketing Manager	3175551573	
9	Martín Sommer	Martín	Owner	3175558600	
10	Laurence Lebihan	Laurence	Owner	3175558383	
11	Elizabeth Lincoln	Elizabeth	Accounting Manager	3175554298	
12	Victoria Ashworth	Victoria	Sales Representative	3175553202	
13	Patricio Simpson	Patricio	Sales Agent	3175554835	
14	Francisco Chang	Francisco	Marketing Manager	3175553170	
15	Yang Wang	Yang	Owner	3175558150	
16	Pedro Afonso	Pedro 🖌	Sales Associate	3175550751	

(A)

Working with Ranges

CHAPTER

Flash Fill a Range with Formatted Data

- Make sure the column of original data has a heading.
- 2 Type a heading for the new column of formatted data.
- 3 Type the first value you want in the new column.
- 4 Begin typing the second value.
- Excel recognizes the pattern and displays suggestions for the rest of the column.
- 5 Press Enter.
- Excel flash fills the column with the formatted data.

	A	В	c	D	E
1	Full Name	First Name	Position 1	Phone	Phone Number 2
2	Maria Anders	Maria	Sales Representative	3175551262	(317) 555-1262
3	Ana Trujillo	Ana	Owner	: 4 >>>	(317) 555-2505
4	Antonio Moreno	Antonio	Owner	3175559773	(317) 555-9773
5	Thomas Hardy	Thomas	Sales Representative	3175556469	(317) 555-6469
6	Christina Berglund	Christina	Order Administrator	3175556184	(317) 555-6184
7	Hanna Moos	Hanna	Sales Representative	3175551740	(317) 555-1740
8	Frédérique Citeaux	Frédérique	Marketing Manager	3175551573	(317) 555-1573
9	Martín Sommer	Martín	Owner	3175558600	(317) 555-8600
10	Laurence Lebihan	Laurence	Owner	3175558383	(317) 555-8383
11	Elizabeth Lincoln	Elizabeth	Accounting Manager	3175554298	(317) 555-4298
12	Victoria Ashworth	Victoria	Sales Representative	3175553202	(317) 555-3202
13	Patricio Simpson	Patricio	Sales Agent	3175554835	(317) 555-4835
14	Francisco Chang	Francisco	Marketing Manager	3175553170	(317) 555-3170
15	Yang Wang	Yang	Owner	3175558150	(317) 555-8150
16	Pedro Afonso	Pedro	Sales Associate	3175550751	(317) 555-0751
17	Elizabeth Brown	Elizabeth	Sales Representative	3175555978	(317) 555-5978
18	Sven Ottlieb	Sven	Order Administrator	3175553660	(317) 555-3660

	A	В	С	D	E	F
1	Full Name	First Name	Position	Phone	Phone Number	
2	Maria Anders	Maria	Sales Representative	3175551262	(317) 555-1262	
3	Ana Trujillo	Ana	Owner	3175552505	(317) 555-2505	
4	Antonio Moreno	Antonio	Owner	3175559773	(317) 555-9773	E
5	Thomas Hardy	Thomas	Sales Representative	3175556469	(317) 555-6469	
6	Christina Berglund	Christina	Order Administrator	3175556184	(317) 555-6184	
7	Hanna Moos	Hanna	Sales Representative	3175551740	(317) 555-1740	
8	Frédérique Citeaux	Frédérique	Marketing Manager	3175551573	(317) 555-1573	
9	Martín Sommer	Martín	Owner	3175558600	(317) 555-8600	
10	Laurence Lebihan	Laurence	Owner	3175558383	(317) 555-8383	
11	Elizabeth Lincoln	Elizabeth	Accounting Manager	3175554298	(317) 555-4298	
12	Victoria Ashworth	Victoria	Sales Representative	3175553202	(317) 555-3202	
13	Patricio Simpson	Patricio	Sales Agent	3175554835	(317) 555-4835	
14	Francisco Chang	Francisco	Marketing Manager	3175553170	(317) 555-3170	
15	Yang Wang	Yang	Owner	3175558150	(317) 555-8150	
16	Pedro Afonso	Pedro	Sales Associate	3175550751	(317) 555-0751	
17	Elizabeth Brown	Elizabeth	Sales Representative	3175555978	(317) 555-5978	
18	Sven Ottlieb	Sven	Order Administrator	3175553660	(317) 555-3660	

TIPS

Why do I not see the automatic Flash Fill suggestions when I type the sample data?

For Flash Fill's automatic suggestions to appear, you must have headings at the top of both the column of original data and the column you are using for the filled data. Also, the flash fill column must be adjacent to the original column and the sample entries you make in the fill column must occur one after the other. Finally, note that Flash Fill's automatic suggestions usually only work with text data, not numeric data.

Can I still use Flash Fill even though I do not see the automatic suggestions?

D

Yes, you can still invoke Flash Fill on any range by running the Ribbon command. In the fill range, type the first value, then select that value and the rest of the fill range. Click the **Data** tab and then click **Flash Fill** (E). Excel flash fills the selected range.

Move or Copy a Range

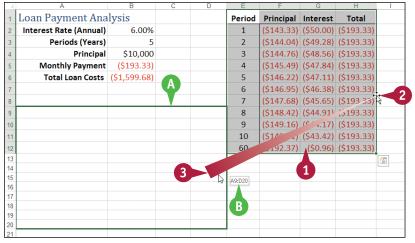
If your worksheet is not set up the way you want, you can restructure or reorganize the worksheet by moving an existing range to a different part of the sheet.

You can also make a copy of a range, which is a useful technique if you require a duplicate of the range elsewhere, or if you require a range that is similar to an existing range. In the latter case, after you copy the range, you can then edit the copied version of the data as needed.

Move or Copy a Range

Move a Range

- 1 Select the range you want to move.
- Position the mouse (1) over any outside border of the range (1) changes to 1).
- 3 Click and drag the range to the new location (☆ changes to ▷).
- Excel displays an outline of the range.
- Excel displays the address of the new location.
- 4 Release the mouse button.
- C Excel moves the range to the new location.



	Α	В	С	D		Е	E F	E F G	E F G	E F G H	E F G H	E F G H
1	Loan Payment Ana	lysis										
2	Interest Rate (Annual)	6.00%										
3	Periods (Years)	5										
4	Principal	\$10,000										
5	Monthly Payment	(\$193.33)										
6	Total Loan Costs	(\$1,599.68)										
7												
8	Period	Principal	Interest	Total								
9 10	1	-		(\$193.33)	⊢							
10	2			(\$193.33)	-							
11				(\$193.33)								
	4			(\$193.33)		4	4	4	4	4	4	4
14	5			(\$193.33)								
14	6			(\$193.33)								
16	7			(\$193.33)								
17	8			(\$193.33)								
18	9			(\$193.33)								
19	10			(\$193.33)								
20	60			(\$193.33)								
21			/									

Working with Ranges



Copy a Range

1 Select the range you want to copy.

- 2 Press and hold Ctrl.
- Position the mouse (⊕) over any outside border of the range (⊕ changes to k).
- Click and drag the range to the location where you want the copy to appear.
- Excel displays an outline of the range.
- Excel displays the address of the new location.
- 5 Release the mouse button.
- 6 Release Ctrl.
- Excel creates a copy of the range in the new location.

	A	В	L L	D	E	F	G	н		J
1 I	L <mark>oan Payment A</mark> r	alysis								
2	<u> </u>									
3 S	cenario #1									
4	Interest Rate (Annual)	6.00%								
5	Periods (Years)	5	-1							
6	Principal	\$10,000	-9							
7	Monthly Payment	3 33)								
8			1							
9 S	icenario #2									
10										
11										
12										
13										
14	A10:B1	3 E)								
15										
16										
10										
10	A	В	С	D	E	F	G	Н	1	J
1			С	D	E	F	G	Н	1	J
1 I	A Loan Payment Ar		С	D	E	F	G	Н	1	J
1 I 2	Loan Payment Ar		С	D	E	F	G	Н	1	J
1 I 2 3 S	Loan Payment Ar	nalysis	С	D	E	F	G	Н		J
1 I 2	Loan Payment Ar Scenario #1 Interest Rate (Annual)		C	D	E	F	G	H		J
1 I 2 3 S 4	Loan Payment Ar	6.00%	C	D	E	F	G	H		J
1 I 2 3 S 4 5	Loan Payment Ar Scenario #1 Interest Rate (Annual) Periods (Years)	6.00% 5 \$10,000	C	D	E	F	G	Н		J
1 I 2 3 S 4 5 6	Loan Payment Ar icenario #1 Interest Rate (Annual) Periods (Years) Principal	6.00% 5 \$10,000	C	D	E	F	G	Н		J
1 I 2 3 S 4 5 6 7 8	Loan Payment Ar icenario #1 Interest Rate (Annual) Periods (Years) Principal	6.00% 5 \$10,000	С	D	E	F	G	H		J
1 L 2 3 S 4 5 6 7 8	Loan Payment Ar Scenario #1 Interest Rate (Annual) Periods (Years) Principal Monthly Payment	6.00% 5 \$10,000	C	D	E	F	G	H		J
✓ 1 1 2 3 5 6 7 8 9 S	Loan Payment Ar Scenario #1 Interest Rate (Annual) Periods (Years) Principal Monthly Payment Scenario #2	6.00% 5 \$10,000 (\$193.33)	C		E	F	G	H		J
✓ 1 1 2 3 5 6 7 8 9 S	Loan Payment Ar Scenario #1 Interest Rate (Annual) Periods (Years) Principal Monthly Payment Scenario #2 Interest Rate (Annual)	6.00% 5 \$10,000 (\$193.33) 6.00%	C		E	F	G	H		
1 I 2 3 S 4 5 6 7 8 9 S 10 1	Loan Payment Ar Scenario #1 Interest Rate (Annual) Periods (Years) Monthly Payment Scenario #2 Interest Rate (Annual) Periods (Years)	6.00% 5 \$10,000 (\$193.33) 6.00% 5 \$10,000		D	E	F	G	H		
1 I 2 3 S 3 S 4 5 6 7 7 8 9 S 10 11 12 12 113 114 14 14	Loan Payment Ar Scenario #1 Interest Rate (Annual) Periods (Years) Principal Monthly Payment Scenario #2 Interest Rate (Annual) Periods (Years) Principal	6.00% 5 \$10,000 (\$193.33) 6.00% 5 \$10,000		D	E	F	G	H		
1 I 2 3 S 3 S 4 5 6 7 7 8 9 S 10 11 12 12 113 13 14 14	Loan Payment Ar Scenario #1 Interest Rate (Annual) Periods (Years) Principal Monthly Payment Scenario #2 Interest Rate (Annual) Periods (Years) Principal	6.00% 5 \$10,000 (\$193.33) 6.00% 5 \$10,000			E	F	G	H		J

TIPS

Can I move or copy a range to another worksheet?

Yes. Click and drag the range as described in this section. Remember to hold down Ctrl if you are copying the range. Press and hold Alt and then drag the mouse pointer over the tab of the sheet you want to use as the destination. Excel displays the worksheet. Release Alt and then drop the range on the worksheet.

Can I move or copy a range to another workbook?

Yes. If you can see the other workbook on-screen, click and drag the range as described in this section, and then drop it on the other workbook. Remember to hold down Ctrl if you are copying the range. Otherwise, select the range, click the **Home** tab, click **Cut** (\swarrow) to move the range or **Copy** (\square) to copy it, switch to the other workbook, select the cell where you want the range to appear, click **Home**, and then click **Paste** (\square).

Insert a Row or Column

You can insert a row or column into your existing worksheet data to accommodate more information. The easiest way to add more information to a worksheet is to add it to the right or at the bottom of your existing data. However, you will often find that the new information you need to add fits naturally within the existing data. In such cases, you first need to insert a new row or column in your worksheet at the place where you want the new data to appear, and then add the new information in the blank row or column.

Insert a Row or Column

Insert a Row	195									3			
	×	ILE HOME	2 PAGE LA	YOUT FORML	JLAS DATA	Loans - I REVIEW VIEV		RY Tell me wit			? 🗈		
1 Click any cell in the row below								Conditional Form		Insert •	Σ - A		
where you want to insert the			~ 14 ~		= **	General		Format as Table		Insert Cells			
5			• 🖽 • 💩	• <u>A</u> • = =				Cell Styles -	4 >	Insert Sheet Rows			
new row.	_	pboard 5	Font	6	Alignment	5 Nur	iber 15	Styles			eet <u>C</u> olumns		
	A	5 *	: 🗙 🗸	f _x Payme	ent Type					Ingert Sh	eet		
2 Click the Home tab.	- 4	A Loan Data	B	С	D	E	F	G	Н	I	J		
	1	Interest Rate	6.00%										
3 Click the Insert 💌.	3	Amortization	10										
	4	Principal	\$500,000										
4 Click Insert Sheet Rows.		Payment Type	0										
•	6	Amortizatio	C -l J-	1.									
	7	Amortizatio	on Scheat	lie		Cumulative	Cumulative	Remaining					
	8	Period	Payment	Principal	Interest	Principal	Interest	Principal					
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Insert a Column

- Click any cell in the row to the right of where you want to insert the new column.
- **2** Click the **Home** tab.
- 3 Click the Insert 💌.
- 4 Click Insert Sheet Columns.

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- C Excel inserts the new column.
- The columns to the right of the new column are shifted to the right.
- 5 Click the Insert Options smart tag (*).
- 6 Select a formatting option for the new column (O changes to).

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9	14	Northwind Traders Walnuts	NWTDFN-14	0	40	40	0
10	17	Northwind Traders Fruit Cocktail	NWTCFV-17	0	0	0	0
11	19	Northwind Traders Chocolate Biscuits Mix	NWTBGM-19	0	0	0	20
12	20	Northwind Traders Marmalade	NWTJP-6	0	0	0	40
13	21	Northwind Traders Scones	NWTBGM-21	0	0	0	0
14	34	Northwind Traders Beer	NWTB-34	23	23	0	0

TIP

Can I insert more than one row or column at a time?

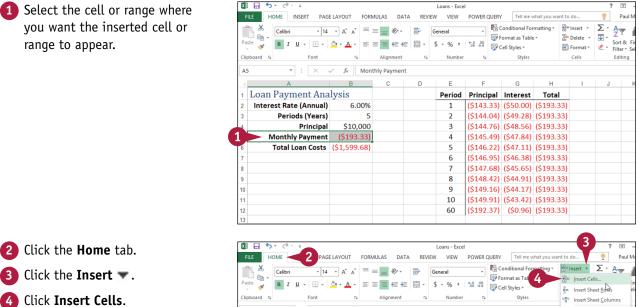
Yes. You can insert as many new rows or columns as you need. First, select the same number of rows or columns that you want to insert. (See the "Select a Range" section earlier in this chapter to learn how to select rows and columns.) For example, if you want to insert four rows, select four existing rows. For rows, be sure to select existing rows below where you want the new rows inserted and then follow steps 2 to 4 in the "Insert a Row" subsection. For columns, be sure to select existing columns to the right of where you want to insert the new columns and then follow steps 2 to 4 in the "Insert a Column" subsection.

Insert a Cell or Range

If you need to add data to an existing range, you can insert a single cell or a range of cells within that range. When you insert a cell or range, Excel shifts the existing data to accommodate the new cells.

Although it is often easiest to create room for new data within a range by inserting an entire row or column, as explained in the previous section, "Insert a Row or Column," this causes problems for some types of worksheet layouts. (See the first tip to learn more.) You can work around such problems by inserting just a cell or range.

Insert a Cell or Range



Note: You can also press Ctrl + Shift + =.

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