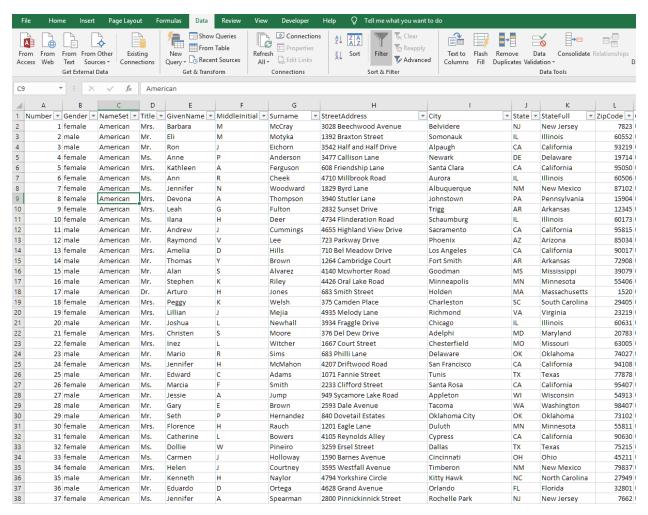


Manipulating Text Strings

Dealing with text can seem difficult in Excel since it's primarily used to manipulate numbers but there are a number of ways to take data that does not seem to work together and incorporate them into something you can use.

Here is our dataset:



In this edition we will learn how to concatenate text strings, format them in a cell, and substitute values given for those we need.

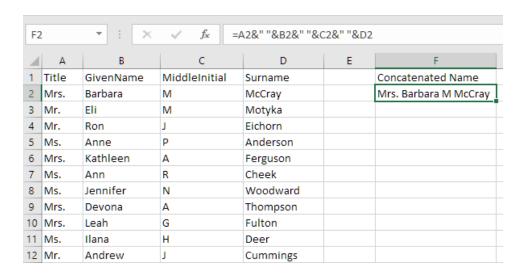


Concatenating Text

We will start with concatenation, which is attaching values in two cells to one another. It is as simple as adding an "&" between the values, for instance here we will take the columns "Title" through "Surname" and concatenate them. As you can see the result is not useful, we can't use "Mrs.BarbaraMMcCray" on a letter and be taken seriously but it is a simple fix. All we need to do is add a set of quotes and a space between them. This takes us from

F2	F2 ▼ : × ✓ f _x =A2&B2&C2&D2							
4	А	В	С	D	Е	F		
1	Title	GivenName	MiddleInitial	Surname		Concatenated Name		
2	Mrs.	Barbara	M	McCray		Mrs.BarbaraMMcCray		
3	Mr.	Eli	M	Motyka				
4	Mr.	Ron	J	Eichorn				
5	Ms.	Anne	P	Anderson				
6	Mrs.	Kathleen	Α	Ferguson				
7	Ms.	Ann	R	Cheek				
8	Ms.	Jennifer	N	Woodward				
9	Mrs.	Devona	Α	Thompson				
10	Mrs.	Leah	G	Fulton				
11	Ms.	Ilana	Н	Deer				
12	Mr.	Andrew	J	Cummings				

To:

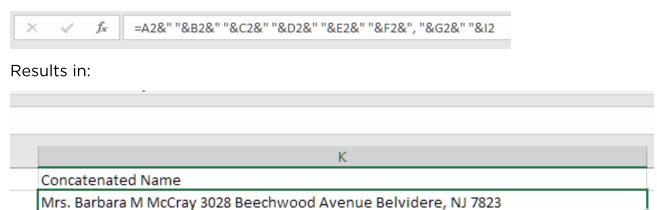




Formatting Text in a Cell

You can also use the "=CONCATENATE" formula but since it's so much longer this method is preferable.

You saw in the beginning of this document that we also have addresses to contend with. We can't simply keep adding cells to the formula because they would continue on a straight line. We can use a simple function addition to make the addresses look like a standard mailing address.



However, if we add the CHAR() function (which allows us to add a character to a formula) we can force Excel to move to a new line. Since we want three lines we will change to the following:



Results in:



There is one final issue, the zip code for Belvidere, NJ is "07823" not "7823". This is also a simple fix, we add another function, TEXT(), to the formula.

× √ f_x =A2&" "&B2&" "&C2&" "&D2&CHAR(10)&E2&" "&CHAR(10)&G2&", "&H2&" "&TEXT(I2,"00000")

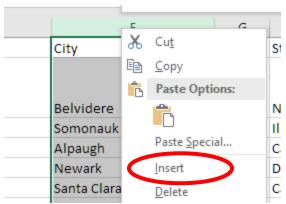


In this case since we want to make a 4 digit number into a 5 digit we add TEXT(I2,"00000") in place of I2 which gives us:



Substituting Values

What if instead of printing "Avenue", "Lane", "Street", or "Drive" we want abbreviations "Ave.", "Ln.", "St." and "Dr."? To do this we can add a new column that changes "StreetAddress" in the way we want.



To start right click the letter of the column after where you want to add the new column and click "Insert" which will add a new blank column in front of the one you selected.

With the new blank column you can enter the following formula which may look tricky but is in fact the same thing just repeated as many times as we need it. The formula we'll use is SUBSTITUTE() and ours will look like this



This nested formula looks at the value of cell E2 4 different times, first checking if it is "Avenue" and changing to "Ave." then "Street" to "St." and so on.



Α	В	С	D	E	F
Title	GivenName	MiddleInitial	Surname	StreetAddress	AbbreviatedAddress
Mrs.	Barbara	М	McCray	3028 Beechwood Avenue	3028 Beechwood Ave.
Mr.	Eli	M	Motyka	1392 Braxton Street	1392 Braxton St.
Mr.	Ron	J	Eichorn	3542 Half and Half Drive	3542 Half and Half Dr.
Ms.	Anne	P	Anderson	3477 Callison Lane	3477 Callison Ln.
Mrs.	Kathleen	Α	Ferguson	608 Friendship Lane	608 Friendship Ln.

L
Concatenated Name
Mrs. Barbara M McCray
3028 Beechwood Ave.
Belvidere, NJ 07823
Mr. Eli M Motyka
1392 Braxton St.
Somonauk, IL 60552
Mr. Ron J Eichorn
3542 Half and Half Dr.
Alpaugh, CA 93219
Ms. Anne P Anderson
3477 Callison Ln.
Newark, DE 19714
Mrs. Kathleen A Ferguson
608 Friendship Ln.
Santa Clara, CA 95050

If you replace the E2 in the address formula we worked on above to now use F2 your result will become:

Which is much cleaner and more useful for mailing and reading.

With that you have a presentable name and address but more importantly you've seen a number of ways to manipulate text in MS Excel, a highly undervalued feature.