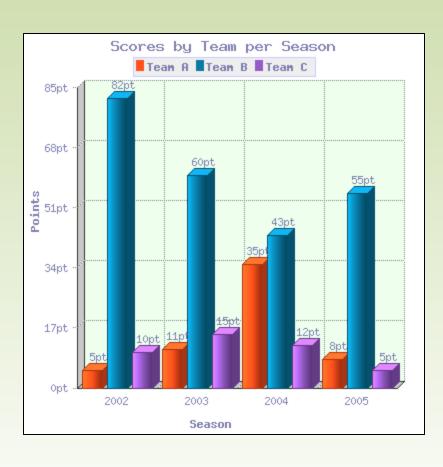


What is Excel??

- An electronic spreadsheet program
- What does that mean?
 - Stores and manipulates numbers
 - Makes tables with text or numbers
 - Creates graphs and charts



Why are we learning it??



- Calculations (save time on homework)
- Charts and tables
- Almost every
 business and
 organization uses it
 to represent data

Preparing for the Journey

Before we start, please pull up Excel and create this table:

	Α	В	С	D	Е	F	G
1							
2							
3			<u>Item</u>	<u>Price</u>	Quantity	Price for a	<u>II</u>
4			Sunglasse	\$14.99	1		
5			Latte	\$2.50	2		
6			Speakers	\$99.99	3		
7			Tshirt	\$19.99	4		
8				TOTAL			
9							
10	CAN I BUY	IT?					
11							
12							

How does it work?

	А	В	С	D	E P G F
1					COLUMNS
2					(letters)
3			<u>Item</u>	<u>Price</u>	(1888818)
4			Sunglasses	\$14.99	
5			Latte	\$2.50	
6			Speakers	\$99.99	
7			T shirt	\$19.99	Cell D7
8					

ROVS

(numbers)

12

13

Each cell stores a piece of information (numbers, text, function) and cells are grouped by <u>columns</u> and <u>rows</u>.

So how do we store this information??

	А	В	С	D	Е	F	G
1							
2							
3			<u>Item</u>	<u>Price</u>	7		
4			Sunglasses	\$14.99			
5			Latte	\$2.50			
6			Speakers	\$99.99			
7			T shirt	\$19.99			
8							
9			doubl	e click	on the	e cell v	ou
10				to use		, com	
11			waiit	to use			
12							
13							

So how do we store this information??

	А	В	С	D	Е	F	G
1							
2							
3			<u>Item</u>	<u>Price</u>		42	
4			Sunglasses	\$14.99			
5			Latte	\$2.50			
6			Speakers	\$99.99			
7			T shirt	\$19.99			
8							
9			cell F3	B has s	tored t	the nu	mber
10			42.				
11			42.				
12							
13							

	Α	В	С	D	Е	F	G
1							
2							
3			<u>Item</u>	<u>Price</u>		42	
4			Sunglasses	\$14.99		=F3	
5			Latte	\$2.50			
6			Speakers	\$99.99			
7			T shirt	\$19.99			
8							
9			Type '	"=" in 1	the ne	w cell,	and
10						at you	
11						at you	Wall
12			it to d	lepend	on.		
13							

	Α	В	С	D	E	F	G
1							
2							
3			<u>Item</u>	<u>Price</u>		42	
4			Sunglasses	\$14.99		=F3+1	
5			Latte	\$2.50			
6			Speakers	\$99.99			
7			T shirt	\$19.99			
8							
9			Press	ENTER	R. and	now th	e cell
10						equal t	
11						equal t	o the
12			value	in F3 p	olus 1.		
13							

	Α	В	С	D	Е	F	G
1							
2							
3			<u>Item</u>	<u>Price</u>		42	
4			Sunglasses	\$14.99		43	
5			Latte	\$2.50			
6			Speakers	\$99.99			
7			T shirt	\$19.99			
8							
9							
10							
11							
12							
13							

	А	В	С	D	E	F	G
1							
2							
3			<u>Item</u>	<u>Price</u>		12	
4			Sunglasses	\$14.99		13	
5			Latte	\$2.50			
6			Speakers	\$99.99			
7			T shirt	\$19.99			
8							
9			Alter	F3, F4	will up	date.	
10							
11							
12							
13							

			I		T. C.		
	Α	В	С	D	Е	F	G
1							
2							
3			<u>Item</u>	Unit Price	Quantity	Price for all	
4			Sunglasses	\$14.99	1	=D4*E4	
5			Latte	\$2.50	2		
6			Speakers	\$99.99	3		
7			T shirt	\$19.99	4		
8							
9			A cell	can de	epend	on sev	eral
10			cells				
11							
12							
13							

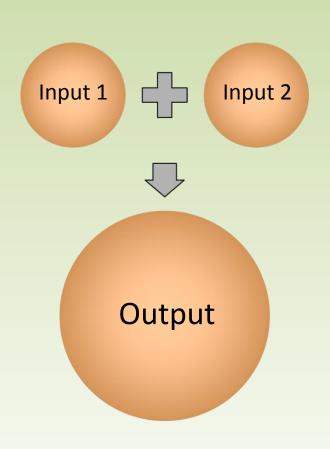
	А	В	С	D	Е	F	G
1							
2							
3			<u>Item</u>	Unit Price	Quantity	Price for al	
4			Sunglasses	\$14.99	1	\$14.99	
5			Latte	\$2.50	2		
6			Speakers	\$99.99	3		
7			T shirt	\$19.99	4		
8							
9			We w	ant ex	cel to	do the	same
10			for th	e othe	r item	S	
11							
12							
13							

	Α	В	С	D	Е	F	G
1							
2							
3			<u>Item</u>	Unit Price	Quantity	Price for al	
4			Sunglasses	\$14.99	1	\$14.99	
5			Latte	\$2.50	2	1	
6			Speakers	\$99.99	3		
7			T shirt	\$19.99	4		
8							
9			Move	the cu	irsor to	o the	
10			botto	m righ	t corn	er of t	he
11					the ce		
12			DUX d	Tourid	me ce	11.	
13							

				_	_	_	
	Α	В	С	D	E	F	G
1							
2							
3			<u>Item</u>	Unit Price	Quantity	Price for all	
4			Sunglasses	\$14.99	1	\$14.99	
5			Latte	\$2.50	2		
6			Speakers	\$99.99	3		
7			T shirt	\$19.99	4		
8							
9			Drag t	the cui	rsor do	wn to	the
10			last ce	ell that	t vou w	ant to	use.
11							
12							
13							

	Α	В	С	D	Е	F	G
1							
2							
3			<u>Item</u>	Unit Price	Quantity	Price for al	
4			Sunglasses	\$14.99	1	\$14.99	
5			Latte	\$2.50	2	\$5.00	
6			Speakers	\$99.99	3	\$299.97	
7			T shirt	\$19.99	4	\$79.96	
8							
9			Now t	the res	t of th	е	
10			multi	plication	ons for	each i	row
11			multiplications for each row have been calculated for us!				
12			iiave	been C	aicuid	leu ioi	us:
13							

Functions in Excel



- Formulas to perform general operations
- Depend on other cells
- Automatically update
- Today, we will use
 SUM() and IF()
 - SUM() adds the values in user-selected cells
 - IF() displays a value that depends on whether or not a condition is true

SUM()

- SUM() has the form =SUM(Cell names)
- Add adjacent cells using a <u>colon</u>
 - Typing **=SUM(A1:A3)** adds cells A1, A2, and A3.
 - And typing =SUM(A1:B2) adds A1, A2, B1, and B2.
- Separate nonadjacent cells with <u>commas</u> to add them:
 - =SUM(A1,B4,G17)

SUM()

	А	В	С	D	Е	F	G
1							
2							
3			<u>Item</u>	Unit Price	Quantity	Price for all	
4			Sunglasses	\$14.99	1	\$14.99	
5			Latte	\$2.50	2	\$5.00	
6			Speakers	\$99.99	3	\$299.97	
7			T shirt	\$19.99	4	\$79.96	
8					TOTAL	=SUM(F4:F	7)
9							
10							
11							
12							
13							

SUM()

	А	В	С	D	Е	F	G
1							
2							
3			<u>Item</u>	Unit Price	Quantity	Price for all	
4			Sunglasses	\$14.99	1	\$14.99	
5			Latte	\$2.50	2	\$5.00	
6			Speakers	\$99.99	3	\$299.97	
7			T shirt	\$19.99	4	\$79.96	
8					TOTAL	\$399.92	
9							
10						word.	
11					Hoo	ray!	
12							
13							

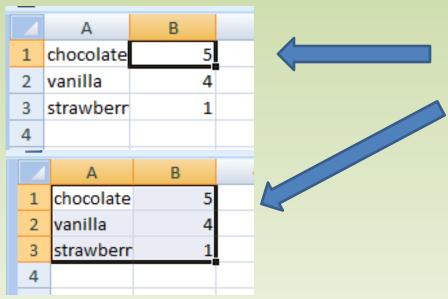
- IF() has the form
 - =IF(Statement, Output if True, Output if False)
- Example 1: =IF(A1>=6, 1, 5)
 - If A1 is greater than or equal to 6, then the cell will display 1.
 - If it is less than 6, the cell will display 5.
- Example 2: =IF(A1=B18, "Same", "Different")
 - What will the cell display if A1 is 100 and B18 is 99.9?

	А	В	С	D	Е	F	G
1							
2							
3			<u>Item</u>	Unit Price	Quantity	Price for all	
4			Sunglasses	\$14.99	1	\$14.99	
5			Latte	\$2.50	2	\$5.00	
6			Speakers	\$99.99	3	\$299.97	
7			T shirt	\$19.99	4	\$79.96	
8					TOTAL	\$399.92	←—F8
9							
10	CA	N I BUY IT?	=IF(F8<400	, "You can b	ouy it!", "You	u can't buy i	t.")
11							
12							
13							

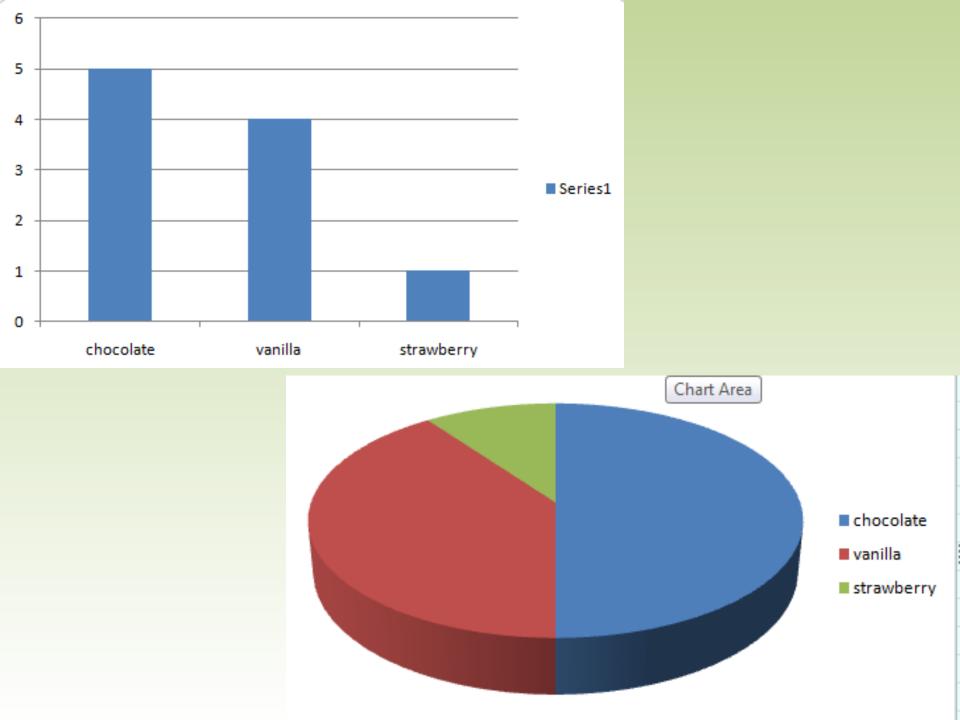
	А	В	С	D	Е	F	G
1							
2							
3			<u>Item</u>	Unit Price	Quantity	Price for all	
4			Sunglasses	\$14.99	1	\$14.99	
5			Latte	\$2.50	2	\$5.00	
6			Speakers	\$99.99	3	\$299.97	
7			T shirt	\$19.99	4	\$79.96	
8					TOTAL	\$399.92	
9							
10	CAN	I BUY IT?	You can bu	y it!			
11							
12	Th	ne coi	nditio	n F8 <	400 is	satisfi	ied.
13							

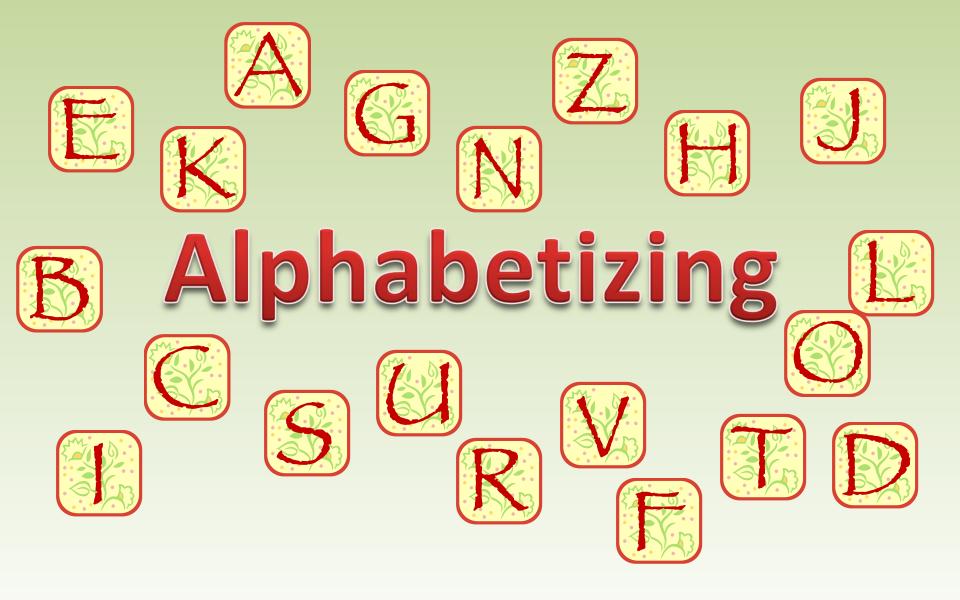
	А	В	С	D	Е	F	G
1							
2							
3			<u>ltem</u>	Unit Price	Quantity	Price for all	
4			Sunglasses	\$14.99	1	\$14.99	
5			Latte	\$2.50	5	\$12.50	
6			Speakers	\$99.99	3	\$299.97	
7			T shirt	\$19.99	4	\$79.96	
8					TOTAL	\$407.42	
9							
10	CAN I B	UY IT?	You can't b	uy it.			
11	The condition FO 4 400 is self						
12	The condition F8 < 400 isn't						
13	9	satis	sfied a	nymo	re.		

Graphs



- 1. Create a table.
- 2. Highlight your table
- 3. Go to insert → Charts
- 4. Choose one of the 3-D pies.
- Repeat 2 & 3 but choose Columns this time. Choose any kind you like.

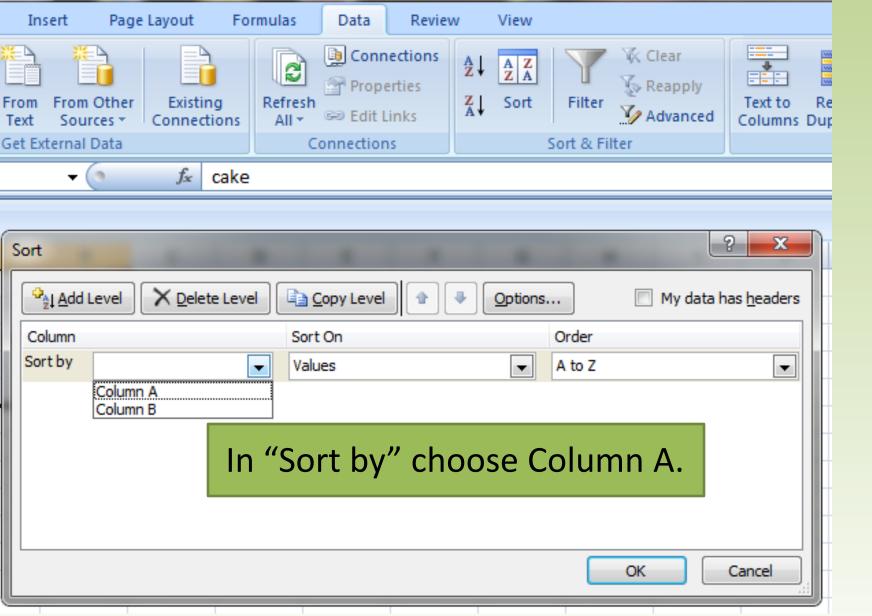




Alphabetizing

	А	В	
1	cake	Katherine	
2	pop corn	Ita	
3	raw tunips	Sarah	
4	ice cream	Kim	
5	apple	Durrah	
6			

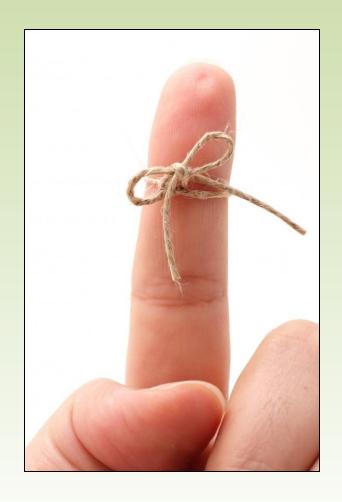
- Highlight all the information you want to alphabetize.
 (otherwise you will highlight one column)
- 2. Go to Data → Sort



	А	В	
1	apple	Durrah	
2	cake	Katherine	
3	ice cream	Kim	
4	pop corn	Ita	
5	raw tunips	Sarah	
6			

REMEMBER!

- Every function must begin with an equal sign.
- Press "Enter" to finish inputting the entry
 - if you click away from the cell, Excel will think you want to enter in the value of another cell
- Functions need text between in quotations.
 - "Like this."



MOST IMPORTANTLY

Machines understand things much differently than people do.

You and I would understand that someone who entered this...

=SUUM(A1:B3)

meant to add the values in that range.

	А	В	С
1	2	5	
2	3	6	
3	4	7	
4			
5			#NAME?
6			7
7			
8			

But in this situation, Excel gets confused because it has no idea what that entry means.

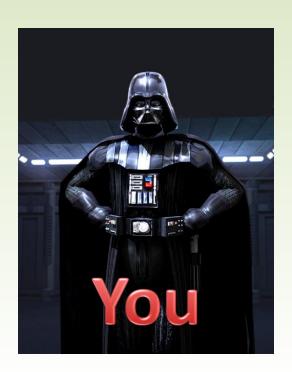
Computers only understand perfect commands

But that's why we like them so much.

They are here to do **exactly** what we say, and they don't mess up (most of the time)

The computer is here to do your bidding.

YOU'RE THE BOSS





Computer



Questions?