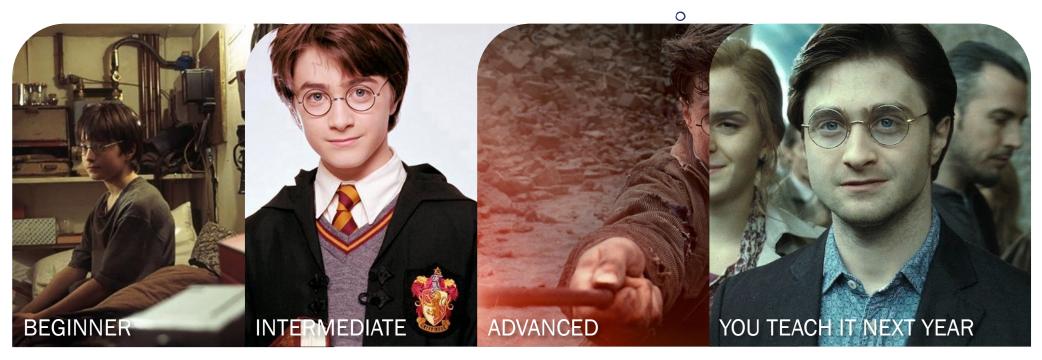
# Excel Tips and Tricks TH 4.4

CONFERENCE D - 2:50-3:40 PM . °

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### TODAY WE WILL TOUCH ON EVERY LEVEL







### BEGINNER

IN WHICH WE FIND OUR WAY OUT OF THE CUPBOARD







0

ceiling

	Α	В	С
1	Coin	Value	# in a Dollar
2	Penny	\$0.01	100
3	Nickel	\$0.05	20
4	Dime	\$0.10	10
5	Quarter	\$0.25	4
6	Silver Dollar	\$1.00	1, duh

valls

ROOM

contents

ceiling

MOST OF OUR EXCEL ERRORS
STEM FROM A MISGUIDED BELIEF
THAT EXCEL IS SOME SORT OF
MAGICAL ARCHITECT

contents



0

EXCEL WILL ONLY AND ALWAYS DO WHAT WE TELL IT TO DO

MAGICAL



0

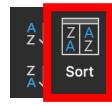
A	В	С	D
1 Holiday	Month		Favorite Part
2 Easter	April	9	Candy
3 Christmas	December	25	Presents
4 MLK Day	January	16	Stories
5 Thanksgiving	November	23	Turkey
6 Valentine's Day	February	14	Kisses
7 Independence Day	July	4	Flags
8 Labor Day	September	4	Vacation
9 Memorial Day	May	29	Vacation
10 Halloween	October	31	Candy





0

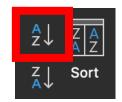
	A	В	С		D
1	Holiday	Month		Favorite	Part
2	Easter	April	9	Candy	
3	Christmas	December	25	Presents	
4	MLK Day	January	16	Stories	
5	Thanksgiving	November	23	Turkey	
6	Valentine's Day	February	14	Kisses	
7	Independence Day	July	4	Flags	
8	Labor Day	September	4	Vacation	
9	Memorial Day	May	29	Vacation	Add levels to sort by:
10	Halloween	October	31	Candy	Co





0

	A	В	С	D
1	Holiday	Month		<b>Favorite Part</b>
2	Easter	April	9	Candy
3	Christmas	December	25	Presents
4	MLK Day	January	16	Stories
5	Thanksgiving	November	23	Turkey
6	Valentine's Day	February	14	Kisses
7	Independence Day	July	4	Flags
8	Labor Day	September	4	Vacation
9	Memorial Day	May	29	Vacation
10	Halloween	October	31	Candy





0

A	В	С	D
1 Christmas	December	25	Presents
2 Easter	April	9	Candy
3 Halloween	October	31	Candy
4 Holiday	Month		Favorite Part
5 Independence Day	July	4	Flags
6 Labor Day	September	4	Vacation
7 Memorial Day	May	29	Vacation
8 MLK Day	January	16	Stories
9 Thanksgiving	November	23	Turkey
10 Valentine's Day	February	14	Kisses

What happens when you sort this table by Holiday?

It gets garbled because you had a leak in your ceiling.

**Excel only identifies a Header Row if** it is fully populated with contents.



0

If you see this, press

### **Control-Z**

to undo and start your detective work

4	A	В	С	D
1	Christmas	December	25	Presents
2	Easter	April	9	Candy
3	Halloween	October	31	Candy
4	Holiday	Month		Favorite Part
5	Independence Day	July	4	Flags
6	Labor Day	September	4	Vacation
7	Memorial Day	May	29	Vacation
8	MLK Day	January	16	Stories
9	Thanksgiving	November	23	Turkey
10	Valentine's Day	February	14	Kisses

4	A	В	С	D
1	Holiday	Month		Favorite Part
2	Easter	April	9	Candy
3	Christmas	December	25	Presents
4	MLK Day	January	16	Stories
5	Thanksgiving	November	23	Turkey
6	Valentine's Day	February	14	Kisses
7	Independence Day	July	4	Flags
8	Labor Day	September	4	Vacation
9	Memorial Day	May	29	Vacation
10	Halloween	October	31	Candy

0

	A	В	С	D	E
1	Holiday	Month	Day		Favorite Part
2	Easter	April	9		Candy
3	Christmas	December	25		Presents
4	MLK Day	January	16		Stories
5	Thanksgiving	November	23		Turkey
6	Valentine's Day	February	14		Kisses
7	Independence Day	July	4		Flags
8	Labor Day	September	4		Vacation
9	Memorial Day	May	29		Vacation
10	Halloween	October	31		Candy





0

	Α	В	С	D	E
1	Holiday	Month	Day		Favorite Part
2	Christmas	December	25		Candy
3	Easter	April	9		Presents
4	Halloween	October	31		Stories
5	Independence Day	July	4		Turkey
6	Labor Day	September	4		Kisses
7	Memorial Day	May	29		Flags
8	MLK Day	January	16		Vacation
9	Thanksgiving	November	23		Vacation
10	Valentine's Day	February	14		Candy

What happens when you sort this table by Holiday?

Excel does exactly what you asked it to do.

It sorts the table it can identify by a consistent ceiling.



0

	A	В	С	D	E
1	Holiday	Month	Day		Favorite Part
2	Christmas	December	25		Candy
3	Easter	April	9		Presents
4	Halloween	October	31		Stories
5	Independence Day	July	4		Turkey
6	Labor Day	September	4		Kisses
7	Memorial Day	May	29		Flags
8	MLK Day	January	16		Vacation
9	Thanksgiving	November	23		Vacation
10	Valentine's Day	February	14		Candy

What happens when you sort this table by Holiday?

**Excel does exactly what you asked it to do.** 

It sorts the table it can identify by a consistent ceiling.



0

	A	В	С	D	E
1	Holiday	Month	Day		Favorite Part
2	Easter	April	9		Candy
3	Christmas	December	25		Presents
4	MLK Day	January	16		Stories
5	Thanksgiving	November	23		Turkey
6	Valentine's Day	February	14		Kisses
7	Independence Day	July	4		Flags
8	Labor Day	September	4		Vacation
9	Memorial Day	May	29		Vacation
10	Halloween	October	31		Candy

If you press

### **Control-Z**

Excel will show you the "table" it just sorted



### THE LEAKY CEILING

PADTTIME

In fact, every time I sort, my habit is

0

### Control-Z

then

### Control-Y

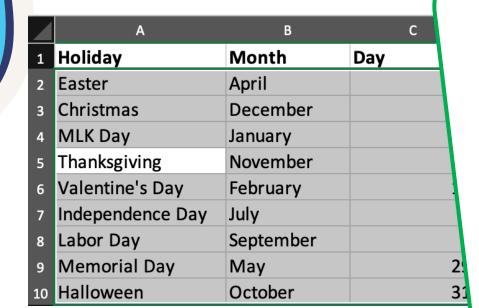
(Undo then Redo)
just to prove to myself there isn't some
brand new amazing way to befoul a
table Excel has devised and just not
told anyone about yet

**If you press** 

### **Control-Z**

Excel will show you the "table" it just sorted





。 o ·

	Α	В	С	D	E
1 F	First Name	Last Name	First Year	Final Year	Touchdown Passes
2 2	Zeke	Bratkowski	1963	1971	21
3 l	rv	Comp	1943	1949	28
4 L	Lynn	Dickey	1976	1985	133
5 E	Brett	Favre	1992	2007	442
6	Arnie	Herber	1930	1940	66
7 (	Cecil	Isbell	1938	1942	61
8 J	lack	Jacobs	1947	1949	21
9 [	Don	Majkowski	1987	1992	56
10 E	Bob	Monnett	1933	1938	28
11 E	Babe	Parilli	1952	1958	31
12					
13 A	Aaron	Rodgers	2005	2022	475
14	Tobin	Rote	1950	1956	89
15 E	Bart	Starr	1956	1971	152
16	David	Whitehurst	1977	1983	28
17 F	Randy	Wright	1984	1988	31

What happens when you sort this table by Touchdown Passes?



0

4	Α	В	С	D	E
1	First Name	Last Name	First Year	Final Year	Touchdown Passes
2	Brett	Favre	1992	2007	442
3	Lynn	Dickey	1976	1985	133
4	Arnie	Herber	1930	1940	66
5	Cecil	Isbell	1938	1942	61
6	Don	Majkowski	1987	1992	56
7	Babe	Parilli	1952	1958	31
8	Irv	Comp	1943	1949	28
9	Bob	Monnett	1933	1938	28
10	Zeke	Bratkowski	1963	1971	21
11	Jack	Jacobs	1947	1949	21
12					
13	Aaron	Rodgers	2005	2022	475
14	Tobin	Rote	1950	1956	89
15	Bart	Starr	1956	1971	152
16	David	Whitehurst	1977	1983	28
17	Randy	Wright	1984	1988	31

What happens when you sort this table by Touchdown Passes?

Excel does exactly what you asked it to do.

It sorts the table it can identify by a consistent wall.



	Α	В	С	D	E
1	First Name	Last Name	First Year	<b>Final Year</b>	<b>Touchdown Passes</b>
2	Brett	Favre	1992	2007	442
3	Lynn	Dickey	1976	1985	133
4	Arnie	Herber	1930	1940	66
5	Cecil	Isbell	1938	1942	61
6	Don	Majkowski	1987	1992	56
7	Babe	Parilli	1952	1958	31
8	Irv	Comp	1943	1949	28
9	Bob	Monnett	1933	1938	28
10	Zeke	Bratkowski	1963	1971	21
11	Jack	Jacobs	1947	1949	21
12					
13	Aaron	Rodgers	2005	2022	475
14	Tobin	Rote	1950	1956	89
15	Bart	Starr	1956	1971	152
16	David	Whitehurst	1977	1983	28
17	Randy	Wright	1984	1988	31





0

	Α	В	С	D	E
1	First Name	Last Name	First Year	Final Year	Touchdown Passes
2	Zeke	Bratkowski	1963	1971	21
3	Irv	Comp	1943	1949	28
4	Lynn	Dickey	1976	1985	133
5	Brett	Favre	1992	2007	442
6	Arnie	Herber	1930	1940	66
7	Cecil	Isbell	1938	1942	61
8	Jack	Jacobs	1947	1949	21
9	Don	Majkowski	1987	1992	56
10	Bob	Monnett	1933	1938	28
11	Babe	Parilli	1952	1958	31
12					
13	Aaron	Rodgers	2005	2022	475
14	Tobin	Rote	1950	1956	89
15	Bart	Starr	1956	1971	152
16	David	Whitehurst	1977	1983	28
17	Randy	Wright	1984	1988	31

### **Control-Z**

Excel will define your table to be only as tall as it can justify through a consistent wall.

Walls, after all, stop at the floor.



0

	Α	В	С	D	E
1	First Name	Last Name	First Year	<b>Final Year</b>	<b>Touchdown Passes</b>
2	Zeke	Bratkowski	1963	1971	21
3	Irv	Comp	1943	1949	28
4	Lynn	Dickey	1976	1985	133
5	Brett	Favre	1992	2007	442
6	Arnie	Herber	1930	1940	66
7	Cecil	Isbell	1938	1942	61
8	Jack	Jacobs	1947	1949	21
9	Don	Majkowski	1987	1992	56
10	Bob	Monnett	1933	1938	28
11	варе	Pariiii	1952	1958	51
12	Aaron	Rodgers	2005	2022	175
14	Tobin	Rote	1950	1956	89
15	Bart	Starr	1956	1971	152
16	David	Whitehurst	1977	1983	28
17	Randy	Wright	1984	1988	31

Excel will define your table to be only as tall as it can justify through a consistent wall.

**Even if the gap is super tiny.** 



0

	Α	В	С	D	E
1	First Name	Last Name	First Year	Final Year	Touchdown Passes
2	Zeke	Bratkowski	1963	1971	21
3	Irv	Comp	1943	1949	28
4	Lynn	Dickey	1976	1985	133
5	Brett	Favre	1992	2007	442
6	Arnie	Herber	1930	1940	66
7	Cecil	Isbell	1938	1942	61
8	Jack	Jacobs	1947	1949	21
9	Don	Majkowski	1987	1992	56
10	ob	Monnett	1933	1938	28
11	Babe	Parilli	1952	1958	31
13	Aaron	Rodgers	2005	2022	475
14	obin	Rote	1950	1956	89
15	Bart	Starr	1956	1971	152
16	David	Whitehurst	1977	1983	28
17	Randy	Wright	1984	1988	31

Excel will define your table to be only as tall as it can justify through a consistent wall.

Even if the gap is super tiny. Even if the gap is <gasp> hidden.



	Α	В	С	D	E
1	First Name	Last Name	First Year	<b>Final Year</b>	Touchdown Passes
2	Zeke	Bratkowski	1963	1971	21
3	Irv	Comp	1943	1949	28
4	Lynn	Dickey	1976	1985	133
5	Brett	Favre	1992	2007	442
6	Arnie	Herber	1930	1940	66
7	Cecil	Isbell	1938	1942	61
8	Jack	Jacobs	1947	1949	21
9	Don	Majkowski	1987	1992	56
10	Bob	Monnett	1933	1938	28
11	Babe	Parilli	1952	1958	31
12	Aaron	Rodgers	2005	2022	475
13	Tobin	Rote	1950	1956	89
14		Starr			152
15	David	Whitehurst	1977	1983	28
16	Randy	Wright	1984	1988	31

Excel will tolerate **incomplete data** as long as there's a wall somewhere.

Here, the walls are in **B** and **E**.



	А	В	С	D	Е		0		
1	First Name	<b>Last Name</b>	First Year	Final Y	А	В	С	D	E
2	Zeke	Bratkowski	1963	1 1	First Name	Last Name	First Year	Final Year	Touchdown Passes
3	Irv	Comp	1943	1 2	Aaron	Rodgers	2005	2022	475
4	Lynn	Dickey	1976	1 3	Brett	Favre	1992	2007	442
5	Brett	Favre	1992	2 4		Starr			152
6	Arnie	Herber	1930	1 5	Lynn	Dickey	1976	1985	133
7	Cecil	Isbell	1938	1 6	Tobin	Rote	1950	1956	89
8	Jack	Jacobs	1947	1 7	Arnie	Herber	1930	1940	66
9	Don	Majkowski	1987	1 8	Cecil	Isbell	1938	1942	61
10	Bob	Monnett	1933	و 1	Don	Majkowski	1987	1992	56
11	Babe	Parilli	1952	1 10	Babe	Parilli	1952	1958	31
12	Aaron	Rodgers	2005	2 11	Randy	Wright	1984	1988	31
13	Tobin	Rote	1950	1 12	Irv	Comp	1943	1949	28
14		Starr		13	Bob	Monnett	1933	1938	28
15	David	Whitehurst	1977	1 14	David	Whitehurst	1977	1983	28
16	Randy	Wright	1984	1 15	Zeke	Bratkowski	1963	1971	21
	0		•	16	Jack	Jacobs	1947	1949	21

0

	А	В	С	D	E
1	First Nan	Last Nam ▼	First Ye	Final Ye	Touchdown Passe
2	Zeke	Bratkowski	1963	1971	21
3	Irv	Comp	1943	1949	28
4	Lynn	Dickey	1976	1985	133
5	Brett	Favre	1992	2007	442
6	Arnie	Herber	1930	1940	66
7	Cecil	Isbell	1938	1942	61
8	Jack	Jacobs	1947	1949	21
9	Don	Majkowski	1987	1992	56
10	Bob	Monnett	1933	1938	28
11	Babe	Parilli	1952	1958	31
12			FILTER STOR	PS HERE	
13	Aaron	Rodgers	2005	2022	475
14	Tobin	Rote	1950	1956	89
15	Bart	Starr	1956	1971	152
16	David	Whitehurst	1977	1983	28
17	Randy	Wright	1984	1988	31

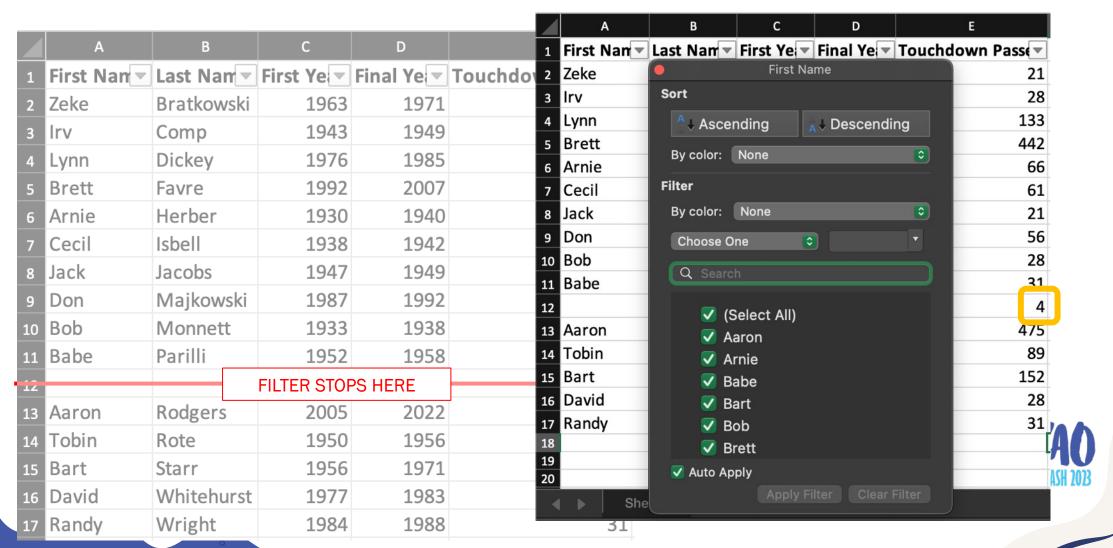
A cracked wall will also erode any filters, because again, **Excel does exactly what you asked it to do.** 

It filters the table it can identify by a consistent wall.



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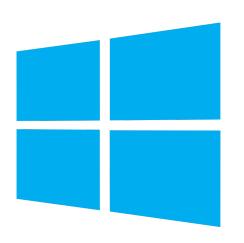


### **CEILING AND WALL SHORTCUTS**

0



COMMAND-RIGHT COMMAND-DOWN



**CONTROL-END** 

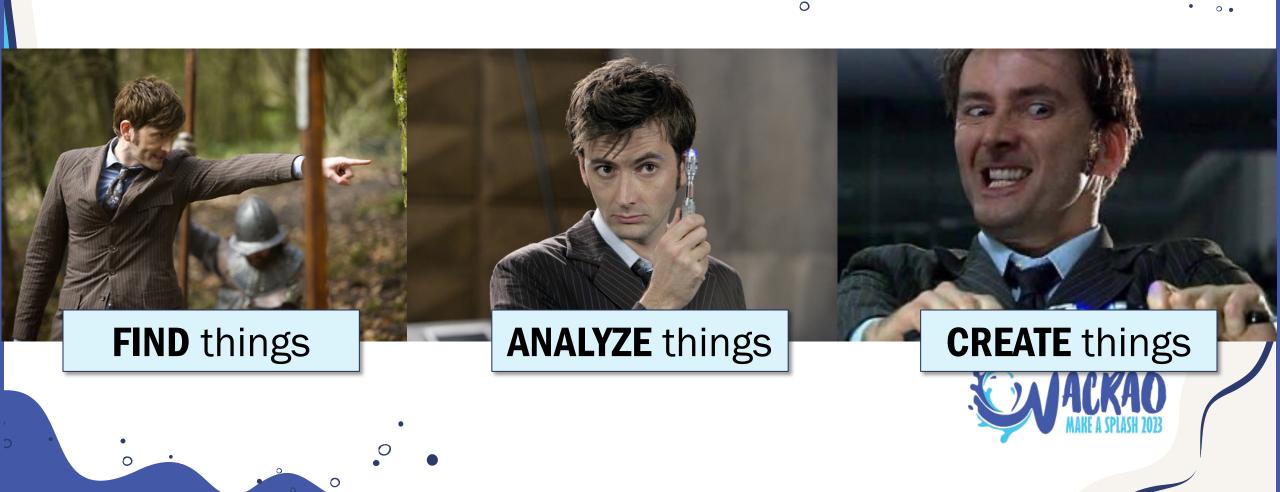




### INTERMEDIATE

IN WHICH WE LEARN
OUR FIRST FEW SPELLS

### THE CONTENTS OF OUR ROOM: 3 ACTIONS



### **FINDING CONTENTS**

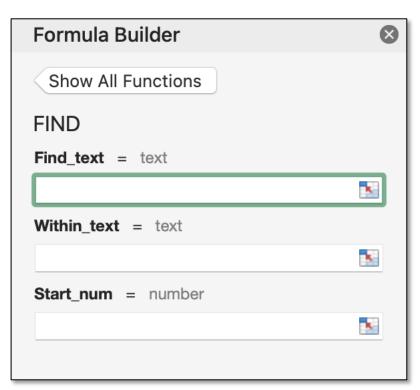


**SEARCH SOMEWHAT SAFELY** 

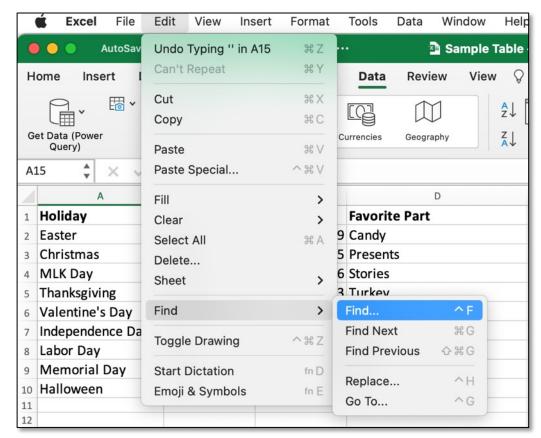


Yes, there is a =FIND function.

It's **TERRIFYING**.







	0		• 0
• • •		Find & Replace	
		Find Replace	
Find w	hat: Candy		~
Within:	Sheet	Match case	
Search:	By Rows 😊	Find entire cells only	
Look in:	Formulas 💲		
			Options
		Find All Previous Next	Close



.

Beware: Excel will find what's typed in the cell!

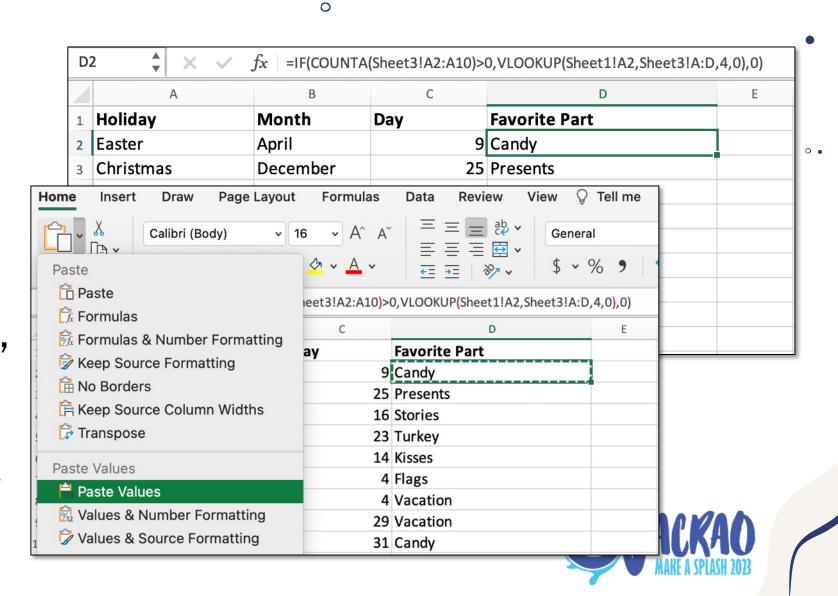
D2	D2 $f_x = IF(COUNTA(Sheet3!A2:A10)>0,VLOOKUP(Sheet1!A2,Sheet3!A:D,4,0),0)$							
	А	В	С	D	Е			
1	Holiday	Month	Day	Favorite Part				
2	Easter	April	9	Candy				
3	Christmas	December	25	Presents				
4	MLK Day	January	16	Stories				
5	Thanksgiving	November	23	Turkey				
6	Valentine's Day	February	14	Kisses				
7	Independence Day	July	4	Flags				
8	Labor Day	September	4	Vacation				
9	Memorial Day	May	29	Vacation				
10	Halloween	October	31	Candy				



Beware:

Excel will find what's typed in the cell!

Paste Values to replace formulas with the text they return.



#### **FINDING CONTENTS**



SEARCH SOMEWHAT SAFELY



FILTERS ARE YOUR FRIENDS



# Filters will filter your data table down to **what you see**, formula or no formula

Blue row numbers means your data is filtered!

	D2	2 A × .	$f_x$ = IF(COUNTA	Sheet3!A2:A10 <mark>)</mark> >(	0,VLOOKUP <mark>(</mark> Sheet1!A2,Sheet3!A:D,	4,0),0)
		А	В	С	D	Е
	1	<b>Holiday</b>	Month $ egt$	Day <b>▼</b>	Favorite Part	
3	2	Easter	April	9	Candy	
! [	10	Halloween	October	31	Candy	



#### **FINDING CONTENTS**



SEARCH SOMEWHAT SAFELY



FILTERS ARE YOUR FRIENDS



**=UNIQUE** 



## Excel 2021 introduced **=UNIQUE**, which summarizes the different values in a column

	A	В	С	D	E	F	G	Н	Formula Builder	6
1	<b>Holiday</b>	Month =	Day ▼	Favorite Part		2:D10,0,0)				
2	Easter	April	9	Candy					Show All Functions	
3	Christmas	December	25	Presents					UNIQUE	
4	MLK Day	January	16	Stories					Array = {"Candy";"Presents";"Stories	"."Ti wko. :"
5	Thanksgiving	November	23	Turkey						_
6	Valentine's Day	February	14	Kisses					D2:D10	1
7	Independence Day	July	4	Flags					By_col = FALSE	
8	Labor Day	September	4	Vacation					0	1
9	Memorial Day	May	29	Vacation					Exactly once = FALSE	
10	Halloween	October	31	Candy					0	100



## Excel 2021 introduced **=UNIQUE**, which summarizes the different values in a column

	A	В	С	D	E F	G	Н	Formula Builder	×
1	Holiday	Month	Day 🔻	Favorite Part	2:D10,0,0)				
2	Easter	April	9	Candy				Show All Functions	
3	Christmas	December	25	Presents				UNIQUE	
4	MLK Day	January	16	Stories					Sandana all
5	Thanksgiving	November	23	Turkey				Array = {"Candy";"Presents";"Stories";"T	
6	Valentine's Day	February	14	Kisses				D2:D10	*
7	Independence Day	July	4	Flags				By_col = FALSE	
8	Labor Day	September	4	Vacation				0	1
9	Memorial Day	May	29	Vacation				Exactly_once = FALSE	
0	Halloween	October	31	Candy					-
11								0	<b>N</b>

	A	В	C	D	E	F	G	H	Formula Builder	8
1	Holiday	Month =	Day ▼	Favorite Part		Candy				
2	Easter	April	9	Candy		Presents			Show All Functions	
3	Christmas	December	25	Presents		Stories			UNIQUE	
4	MLK Day	January	16	Stories		Turkey			Array = {"Candy";"Presents";"Stories";"Turk	rov."
5	Thanksgiving	November	23	Turkey		Kisses				
6	Valentine's Day	February	14	Kisses		Flags			D2:D10	*
7	Independence Day	July	4	Flags		Vacation			By_col = FALSE	
8	Labor Day	September	4	Vacation					0	×
9	Memorial Day	May	29	Vacation					Exactly_once = FALSE	
10	Halloween	October	31	Candy						
11									0	×



# Excel 2021 introduced **=UNIQUE**, which summarizes the different values in <del>a column</del>

	Α	В	С	D	E	F	G	Н	1	J	K	Formula Builder
1	First Nan	Last Nam ▼	First Ye ▼	Final Ye	Touchdown Pass€▼		Zeke	Bratkowski				
2	Zeke	Bratkowski	1963	1971	21		Irv	Comp				Show All Functions
3	Irv	Comp	1943	1949	28		Lynn	Dickey				UNIQUE
4	Lynn	Dickey	1976	1985	133		Brett	Favre				Array = {"Zeke","Bratkowski";"Irv","Comp";"Ly
5	Brett	Favre	1992	2007	442		Arnie	Herber				
6	Arnie	Herber	1930	1940	66		Cecil	Isbell				A2:B16
7	Cecil	Isbell	1938	1942	61		Jack	Jacobs				By_col = logical
8	Jack	Jacobs	1947	1949	21		Don	Majkowski				<u>*</u>
9	Don	Majkowski	1987	1992	56		Bob	Monnett				Exactly_once = logical
LO	Bob	Monnett	1933	1938	28		Babe	Parilli				
1	Babe	Parilli	1952	1958	31		Aaron	Rodgers				
2	Aaron	Rodgers	2005	2022	475		Tobin	Rote				
.3	Tobin	Rote	1950	1956	89		Bart	Starr				
L4	Bart	Starr	1956	1971	152		David	Whitehurst				
.5	David	Whitehurst	1977	1983	28		Randy	Wright				
.6	Randy	Wright	1984	1988	31							Result: "Zeke" Done
7												Result: "Zeke" Done

#### (Editor's note:

Down the road, you may bump intooformulas named

#### =INDEX

#### =MATCH

and find out you guys share a very eccentric taste like underwater basket weaving, and you'll make friends with them.

That's great!)



#### **ANALYZING CONTENTS**



**SUMMARY SHORTCUTS** 



	Α	В	С	D	Е	F	G	Н	1	J
1	Rank	Title	Туре	Genre	Basis	Worldwide BO	Domestic BO	Foreign BO		
2	1	Star Wars: Episode I - The Phantom Menace	Live Action	Action	Franchise	\$924,305,084	\$431,088,295	\$493,216,789		
3	2	The Sixth Sense	Live Action	Thriller	Original	\$672,806,292	\$293,506,292	\$379,300,000		
4	3	Toy Story 2	Animated	Family	Franchise	\$487,059,677	\$245,852,179	\$241,207,498		
5	4	The Matrix	Live Action	Action	Franchise	\$463,517,383	\$171,479,930	\$292,037,453		
6	5	Tarzan	Animated	Family	Adaptation	\$448,191,819	\$171,091,819	\$277,100,000		
7	6	American Beauty	Live Action	Drama	Original	\$356,296,601	\$130,096,601	\$226,200,000		
8	7	Runaway Bride	Live Action	Comedy	Original	\$309,460,292	\$152,257,509	\$157,202,783		
9	8	Stuart Little	Live Action	Family	Adaptation	\$300,135,367	\$140,035,367	\$160,100,000		
10	9	The Green Mile	Live Action	Drama	Adaptation	\$286,801,374	\$136,801,374	\$150,000,000		
11	10	The Blair Witch Project	Live Action	Thriller	Original	\$248,639,099	\$140,539,099	\$108,100,000		
12	11	American Pie	Live Action	Comedy	Original	\$235,483,004	\$102,561,004	\$132,922,000		
13	12	Big Daddy	Live Action	Comedy	Original	\$234,801,895	\$163,479,795	\$71,322,100		
14	13	Wild Wild West	Live Action	Comedy	Original	\$222,104,681	\$113,804,681	\$108,300,000		
15	14	Entrapment	Live Action	Drama	Original	\$212,404,396	\$87,704,396	\$124,700,000		
16	15	End of Days	Live Action	Action	Original	\$211,989,043	\$66,889,043	\$145,100,000		
17	16	Austin Powers: The Spy Who Shagged Me	Live Action	Comedy	Franchise	\$206,756,056	\$206,040,086	\$715,970		
18	17	Sleepy Hollow	Live Action	Drama	Adaptation	\$206,071,502	\$101,071,502	\$105,000,000		
19	18	Double Jeopardy	Live Action	Drama	Original	\$177,841,558	\$116,741,558	\$61,100,000		
20	19	The Haunting	Live Action	Thriller	Original	\$177,311,151	\$91,411,151	\$85,900,000		
21	20	Analyze This	Live Action	Comedy	Original	\$176,885,658	\$106,885,658	\$70,000,000		
22	21	Deep Blue Sea	Live Action	Action	Original	\$164,648,142	\$73,648,142	\$91,000,000		
23	22	Pokémon: The First Movie - Mewtwo Strikes Back	Animated	Family	Franchise	\$163,644,662	\$85,744,662	\$77,900,000		
24	23	Eyes Wide Shut	Live Action	Drama	Original	\$162,091,208	\$55,691,208	\$106,400,000		
25	24	Payback	Live Action	Drama	Original	\$161,626,121	\$81,526,121	\$80,100,000		
26	25	Princess Mononoke	Animated	Family	Original	\$159,414,369	\$2,375,308	\$157,039,061		
27	26	The Mummy	Live Action	Thriller	Original	\$155,563,437	\$155,385,488	\$177,949		
28	27	The Bone Collector	Live Action	Drama	Original	\$151,493,655	\$66,518,655	\$84,975,000		
29	28	The General's Daughter	Live Action	Drama	Original	\$149,705,852	\$102,705,852	\$47,000,000		
30		Inspector Gadget	Live Action	Family	Adaptation		\$97,403,112	\$37,000,000		
31		The Talented Mr. Ripley	Live Action	-	Adaptation		\$81,298,265	\$47,500,000		
32										
22										
4	•	Sheet1 Sheet2 Sheet3	1999 Wo	rldwide	во +					

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4	Α	В	С	D	E	F	G	Н	l	J
1	Rank	Title	Туре	Genre	Basis	Worldwide BO		Foreign BO		
2	1	Star Wars: Episode I - The Phantom Menace	Live Action	Action	Franchise	\$924,305,084	\$431,088,295	\$493,216,789		
3	2	The Sixth Sense	Live Action	Thriller	Original	\$672,806,292	\$293,506,292	\$379,300,000		
4	3	Toy Story 2	Animated	Family	Franchise	\$487,059,677	\$245,852,179	\$241,207,498		
5	4	The Matrix	Live Action	Action	Franchise	\$463,517,383	\$171,479,930	\$292,037,453		
6	5	Tarzan	Animated	Family	Adaptation	\$448,191,819	\$171,091,819	\$277,100,000		
7	6	American Beauty	Live Action	Drama	Original	\$356,296,601	\$130,096,601	\$226,200,000		
8	7	Runaway Bride	Live Action	Comedy	Original	\$309,460,292	\$152,257,509	\$157,202,783		
9	8	Stuart Little	Live Action	Family	Adaptation	\$300,135,367	\$140,035,367	\$160,100,000		
10	9	The Green Mile	Live Action	Drama	Adaptation	\$286,801,374	\$136,801,374	\$150,000,000		
11	10	The Blair Witch Project	Live Action	Thriller	Original	\$248,639,099	\$140,539,099	\$108,100,000		
12	11	American Pie	Live Action	Comedy	Original	\$235,483,004	\$102,561,004	\$132,922,000		
13	12	Big Daddy	Live Action	Comedy	Original	\$234,801,895	\$163,479,795	\$71,322,100		
14	13	Wild Wild West	Live Action	Comedy		\$222,104,681	\$113,804,681	\$108,300,000		
15	14	Entrapment	Live Action	Drama	Original	\$212,404,396	\$87,704,396	\$124,700,000		
16	15	End of Days	Live Action	Action	Original	\$211,989,043	\$66,889,043	\$145,100,000		
17	16	Austin Powers: The Spy Who Shagged Me	Live Action	Comedy	Franchise	\$206,756,056	\$206,040,086	\$715,970		
18	17	Sleepy Hollow	Live Action	Drama	Adaptation	\$206,071,502	\$101,071,502	\$105,000,000		
19	18	Double Jeopardy	Live Action	Drama	Original	\$177,841,558	\$116,741,558	\$61,100,000		
20	19	The Haunting	Live Action	Thriller	Original	\$177,311,151	\$91,411,151	\$85,900,000		
21	20	Analyze This	Live Action	Comedy	Original	\$176,885,658	\$106,885,658	\$70,000,000		
22	21	Deep Blue Sea	Live Action	Action	Original	\$164,648,142	\$73,648,142	\$91,000,000		
23	22	Pokémon: The First Movie - Mewtwo Strikes Back	Animated	Family	Franchise	\$163,644,662	\$85,744,662	\$77,900,000		
24	23	Eyes Wide Shut	Live Action	Drama	Original	\$162,091,208	\$55,691,208	\$106,400,000		
25	24	Payback	Live Action	Drama	Original	\$161,626,121	\$81,526,121	\$80,100,000		
26	25	Princess Mononoke	Animated	Family	Original	\$159,414,369	\$2,375,308	\$157,039,061		
27	26	The Mummy	Live Action	Thriller	Original	\$155,563,437	\$155,385,488	\$177,949		
28	27	The Bone Collector	Live Action	Drama	Original	\$151,493,655	\$66,518,655	\$84,975,000		
29	28	The General's Daughter	Live Action	Drama	Original	\$149,705,852	\$102,705,852	\$47,000,000		
30		Inspector Gadget	Live Action		Adaptation		\$97,403,112	\$37,000,000		
31		The Talented Mr. Ripley	Live Action	-	Adaptation		\$81,298,265	\$47,500,000		
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33										
4		Sheet1 Sheet2 Sheet3	1999 Woi	rldwide	во +					

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Average: \$449,721,299

Count: 10

Sum: \$4,497,212,988

									✓ Flash Fill Blank Cells			
	Α	В	С	D	Е	F	G	Н	✓ Flash Fill Changed Cell			
1	Rank	Title	Туре	Genre	Basis	Worldwide BO	Domestic BO	Foreign BO	Sheet Number			
2		1 Star Wars: Episode I - The Phantom Menace	Live Action	Action	Franchise	\$924,305,084	\$431,088,295	\$493,216,789				
3		2 The Sixth Sense	Live Action	Thriller	Original	\$672,806,292	\$293,506,292	\$379,300,000	Workbook Statistics			
4	:	3 Toy Story 2	Animated	Family	Franchise	\$487,059,677	\$245,852,179	\$241,207,498				
5		4 The Matrix	Live Action	Action	Franchise	\$463,517,383	\$171,479,930	\$292,037,453	Sensitivity			
6		5 Tarzan	Animated	Family	Adaptation	\$448,191,819	\$171,091,819	\$277,100,000				
7		6 American Beauty	Live Action	Drama	Original	\$356,296,601	\$130,096,601	\$226,200,000	✓ Signatures			
8		7 Runaway Bride	Live Action	Comedy	Original	\$309,460,292	\$152,257,509	\$157,202,783				
9	;	8 Stuart Little	Live Action	Family	Adaptation	\$300,135,367	\$140,035,367	\$160,100,000	Caps Lock			
.0	9	9 The Green Mile	Live Action	Drama	Adaptation	\$286,801,374	\$136,801,374	\$150,000,000	✓ Fixed Decimal			
1	10	The Blair Witch Project	Live Action	Thriller	Original	\$248,639,099	\$140,539,099	\$108,100,000				
2	1:	1 American Pie	Live Action	Comedy	Original	\$235,483,004	\$102,561,004	\$132,922,000	Overtype Mode			
.3	13	2 Big Daddy	Live Action	Comedy	Original	\$234,801,895	\$163,479,795	\$71,322,100	✓ End Mode			
4	13	3 Wild Wild West	Live Action	Comedy	Original	\$222,104,681	\$113,804,681	\$108,300,000	V Liid Mode			
.5	14	4 Entrapment	Live Action	Drama	Original	\$212,404,396	\$87,704,396	\$124,700,000	Macro Recording			
.6	1	5 End of Days	Live Action	Action	Original	\$211,989,043	\$66,889,043	\$145,100,000	✓ Accessibility Checker			
7	10	Austin Powers: The Spy Who Shagged Me	Live Action	Comedy	Franchise	\$206,756,056	\$206,040,086	\$715,970	V Accessibility Checker			
8	1	7 Sleepy Hollow	Live Action	Drama	Adaptation	\$206,071,502	\$101,071,502	\$105,000,000				
9	18	8 Double Jeopardy	Live Action	Drama	Original	\$177,841,558	\$116,741,558	\$61,100,000	✓ Selection Mode			
20	19	9 The Haunting	Live Action	Thriller	Original	\$177,311,151	\$91,411,151	\$85,900,000				
21	20	0 Analyze This	Live Action	Comedy	Original	\$176,885,658	\$106,885,658	\$70,000,000	✓ Page Number			
22		1 Deep Blue Sea	Live Action	Action	Original	\$164,648,142	\$73,648,142	\$91,000,000				
23	2:	2 Pokémon: The First Movie - Mewtwo Strikes Back	Animated	Family	Franchise	\$163,644,662	\$85,744,662	\$77,900,000	✓ Average			
24	2:	3 Eyes Wide Shut	Live Action	Drama	Original	\$162,091,208	\$55,691,208	\$106,400,000				
25	24	4 Payback	Live Action	Drama	Original	\$161,626,121	\$81,526,121	\$80,100,000	✓ Count			
26	2.	5 Princess Mononoke	Animated	Family	Original	\$159,414,369	\$2,375,308	\$157,039,061	Numerical Count			
27	20	6 The Mummy	Live Action	Thriller	Original	\$155,563,437	\$155,385,488	\$177,949				
28	2	7 The Bone Collector	Live Action	Drama	Original	\$151,493,655	\$66,518,655	\$84,975,000	Minimum			
29	28	8 The General's Daughter	Live Action	Drama	Original	\$149,705,852	\$102,705,852	\$47,000,000	Maximum			
30		9 Inspector Gadget	Live Action	Family	Adaptation		\$97,403,112	\$37,000,000	20			
31		The Talented Mr. Ripley	Live Action	Drama	Adaptation		\$81,298,265	\$47,500,000	✓ Sum			
32		·										
12									✓ Upload Status			
4		Sheet1 Sheet2 Sheet3	1999 Woi	rldwide	во +							
	<u> </u>								✓ View Shortcuts			
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	Average: \$449,721,299 Count: 10											

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#### **ANALYZING CONTENTS**



**SUMMARY SHORTCUTS** 



MANUAL METHODS



"I just need an ad hoc table of the top franchisebased movies in 1999."



2 1 Star Wars: Episode I - The Phantom Menace Live Action Action Franchise \$924,305,084 \$431,088,295 \$4  4 3 Toy Story 2 Animated Family Franchise \$48 77 \$245,852,179 \$2  5 4 The Matrix Live Action Action Franchise \$1  16 Austin Powers: The Spy Who Shagged Me Live Action Comedy Franchise \$2  22 Pokémon: The First Movie - Mewtwo Strikes Back Animated Family Franchise \$163,644,662 \$85,744,662 \$  A B C D E F G H  1 Ra Title Type Genre Basis Tworldwide Domestic B Foreign BO  2 1 Star Wars: Episode I - The Phantom Menace Live Action Action Franchise \$924,305,084 \$431,088,295 \$493,216,78  4 3 Toy Story 2 Animated Family Franchise \$487,059	\$77,900,000
2 1 Star Wars: Episode I - The Phantom Menace  Live Action Action Franchise \$924,305,084 \$431,088,295 \$4  4 3 Toy Story 2  Animated Family Franchise \$48 77 \$245,852,179 \$2  5 4 The Matrix  Live Action Action Franchise \$1  16 Austin Powers: The Spy Who Shagged Me  Live Action Comedy Franchise \$2  Pokémon: The First Movie - Mewtwo Strikes Back Animated Family Franchise \$163,644,662 \$85,744,662 \$  A B C D E F G H  1 Ral Title  1 Star Wars: Episode I - The Phantom Menace Live Action Action Franchise \$924,305,084 \$431,088,295 \$493,216,7  4 3 Toy Story 2 Animated Family Franchise \$924,305,084 \$431,088,295 \$493,216,7  5 4 The Matrix  Live Action Action Franchise \$487,055 \$47,050 \$471,082,295 \$493,216,7  17 16 Austin Powers: The Spy Who Shagged Me Live Action Action Franchise \$463,51 \$2 HIGHLIGHT \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1	493,216,789 241 207 498 R DOWN \$77,900,000
A The Matrix  Live Action Action Franchise  Austin Powers: The Spy Who Shagged Me  Live Action Comedy Franchise  Pranchise  Animated Family Franchise  Filter  Filter  Type  Genre  Basis  Worldwide  Domestic Bi  Foreign BO  Animated Family Franchise  Animated Famil	241 207 498 R DOWN \$77,900,000
The Matrix  Itive Action Action Franchise  Austin Powers: The Spy Who Shagged Me  Live Action Comedy  Franchise  Animated Family Franchise  Process Foreign BO  Ray Title  Star Wars: Episode I - The Phantom Menace  Live Action Action Franchise  Animated Family Famil	\$77,900,000
17 16 Austin Powers: The Spy Who Shagged Me 23 22 Pokémon: The First Movie - Mewtwo Strikes Back  A B  C D E F G H  Ra  Title  Type  Genre  Basis  Worldwide  Domestic B Foreign BO  2 1 Star Wars: Episode I - The Phantom Menace Live Action Action Franchise  4 3 Toy Story 2 Animated Family Franchise  Animated Family Franchise  4 4 The Matrix Live Action Action Franchise  Animated Family Franchise  HIGHLIGHT  16 Austin Powers: The Spy Who Shagged Me Live Action Comedy  Live Action Comedy  Franchise  17 16 Austin Powers: The Spy Who Shagged Me Live Action Comedy  Franchise  Live Action Franchise  S22  HIGHLIGHT  A B  C D E F G H  C D E F G D E F D E F G D E F	\$77,900,000   
23 22 Pokémon: The First Movie - Mewtwo Strikes Back Animated Family Franchise \$163,644,662 \$85,744,662 \$  A B C D E F G H  1 Ra Title Type Genre Basis Tworldwide Domestic B Foreign BO 2 1 Star Wars: Episode I - The Phantom Menace Live Action Action Franchise \$924,305,084 \$431,088,295 \$493,216,7 4 3 Toy Story 2 Animated Family Franchise \$487,059 5 4 The Matrix Live Action Action Franchise \$463,51 17 16 Austin Powers: The Spy Who Shagged Me Live Action Comedy Franchise \$206,755 23 22 Pokémon: The First Movie - Mewtwo Strikes Back Animated Family Franchise \$163,644,662 \$85,744,662 \$77,900,0	1 0 ▼ 789
A B C D E F G H  1 Ra ▼ Title ▼ Type ▼ Genre ▼ Basis ▼ Worldwide ▼ Domestic B ▼ Foreign BO  2 1 Star Wars: Episode I - The Phantom Menace Live Action Action Franchise \$924,305,084 \$431,088,295 \$493,216,7  4 3 Toy Story 2 Animated Family Franchise \$487,059  5 4 The Matrix Live Action Action Franchise \$463,51  17 16 Austin Powers: The Spy Who Shagged Me Live Action Comedy Franchise \$206,756  23 22 Pokémon: The First Movie - Mewtwo Strikes Back Animated Family Franchise \$163,644,662 \$85,744,662 \$77,900,0	1 0 ▼ 789
1 Ra ▼ Title ▼ Type ▼ Genre ▼ Basis ▼ Worldwide ▼ Domestic B ▼ Foreign BO  2 1 Star Wars: Episode I - The Phantom Menace Live Action Action Franchise \$924,305,084 \$431,088,295 \$493,216,7  4 3 Toy Story 2 Animated Family Franchise \$487,059  5 4 The Matrix Live Action Action Franchise \$463,51  17 16 Austin Powers: The Spy Who Shagged Me Live Action Comedy Franchise \$206,756  22 Pokémon: The First Movie - Mewtwo Strikes Back Animated Family Franchise \$163,644,662 \$85,744,662 \$77,900,0	789
2 1 Star Wars: Episode I - The Phantom Menace Live Action Action Franchise \$924,305,084 \$431,088,295 \$493,216,7 4 3 Toy Story 2 Animated Family Franchise \$487,059 5 4 The Matrix Live Action Action Franchise \$463,51 17 16 Austin Powers: The Spy Who Shagged Me Live Action Comedy Franchise \$206,756 23 22 Pokémon: The First Movie - Mewtwo Strikes Back Animated Family Franchise \$163,644,662 \$85,744,662 \$77,900,0	789
2 1 Star Wars: Episode I - The Phantom Menace Live Action Action Franchise \$924,305,084 \$431,088,295 \$493,216,7 4 3 Toy Story 2 Animated Family Franchise \$487,059 5 4 The Matrix Live Action Action Franchise \$463,51 17 16 Austin Powers: The Spy Who Shagged Me Live Action Comedy Franchise \$206,756 23 22 Pokémon: The First Movie - Mewtwo Strikes Back Animated Family Franchise \$163,644,662 \$85,744,662 \$77,900,0	789
The Matrix  17	WHOLE ROWS
17 16 Austin Powers: The Spy Who Shagged Me Live Action Comedy Franchise \$206,756 22 Pokémon: The First Movie - Mewtwo Strikes Back Animated Family Franchise \$163,644,662 \$85,744,662 \$77,900,0	WHOLE ROWS
17 16 Austin Powers: The Spy Who Shagged Me Live Action Comedy Franchise \$206,756 22 Pokémon: The First Movie - Mewtwo Strikes Back Animated Family Franchise \$163,644,662 \$85,744,662 \$77,900,0	
A B C D E F G H	
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1 Ra ▼ Title ▼ Type ▼ Genre ▼ Basis ▼ Worldwide ▼ Domestic B ▼ Foreign	4
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2 1 Star Wars: Episode I - The Phantom Menace Live Action Action Franchise \$924,305,084 \$431,088,295 \$493,21	16,789
4 3 Toy Story 2 Animated Family Franchise \$487,07 \$245,852,179 \$241,20	17 498
5 4 The Matrix Live Action Action Franchise \$463,	OPY
17 16 Austin Powers: The Spy Who Snagged Me Live Action   Comedy   Franchise   \$206,0	
23 Pokémon: The First Movie - Mewtwo Strikes Back Animated Family Franchise \$163,644,662 \$85,744,662 \$77,90	00,000
32	
A B C D E F G H	1
1 Rank Title Type Genre Basis Worldwide BO Domestic BO Foreign BO	20.0
2 1 Star Wars: E Live Action Action Franchise \$924,305,084 \$431,088,295 \$493,216,789	KAN
3 Toy Story 2 Animated Family Franchise \$487,059,677 \$245,952,179 \$241,207,498	VIV.
4 The Matrix Live Action Action Franchise \$463,517,383 \$1	PĨASH 7023
16 Austin Powe Live Action Comedy Franchise \$206,756,056 \$2 PASTE IN N	NEW SHEET
6 22 Pokémon: Th Animated Family Franchise \$163,644,662 \$85,,662 \$77,900,000	
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#### **ANALYZING CONTENTS**



**SUMMARY SHORTCUTS** 

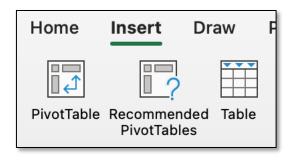


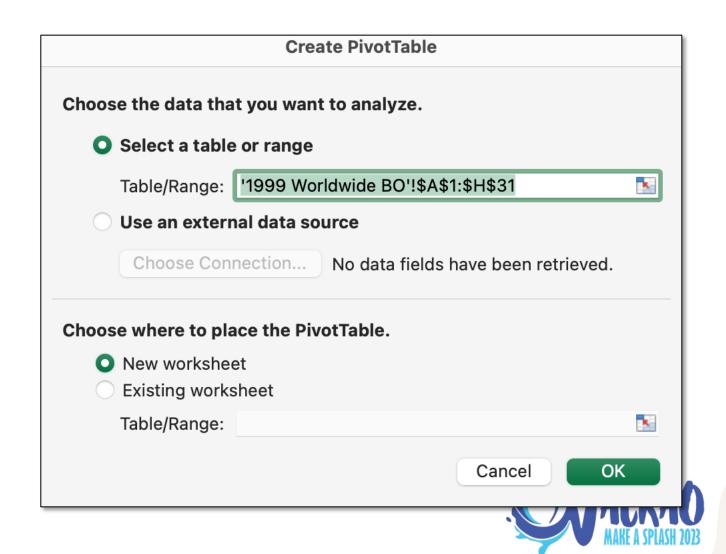
MANUAL METHODS

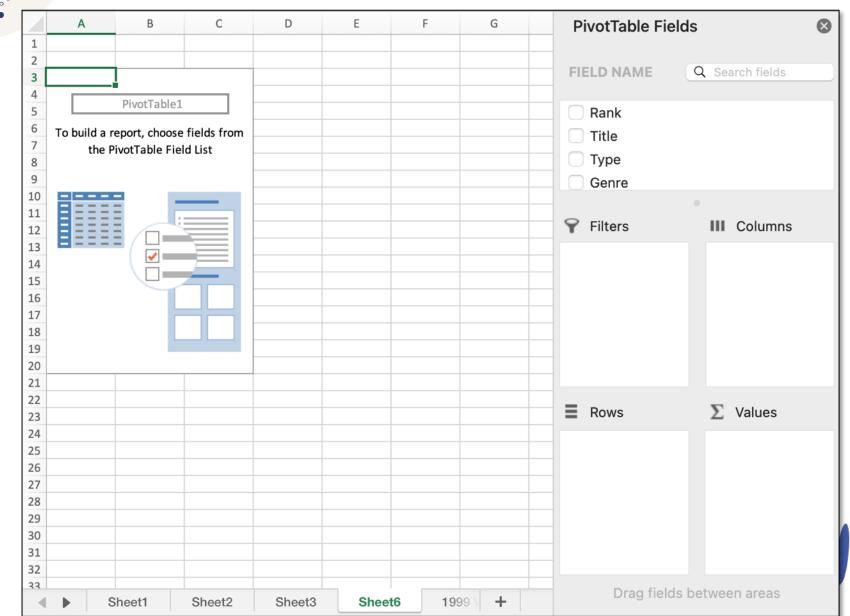


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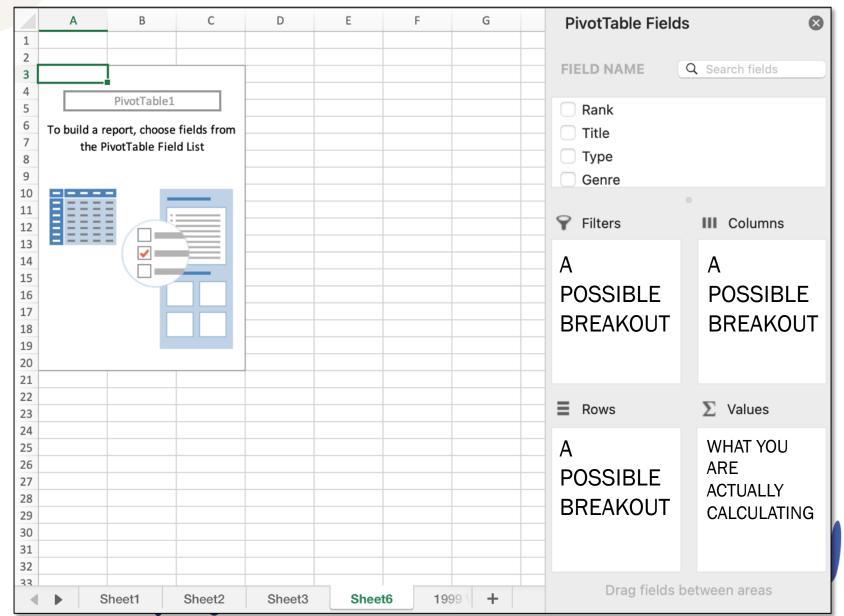






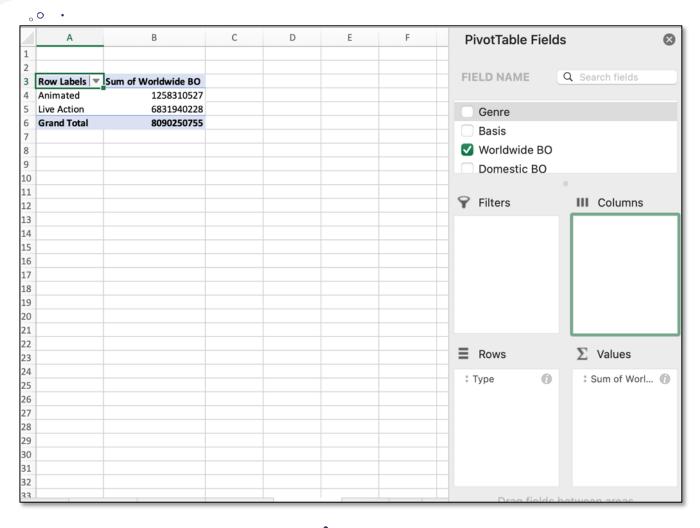
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ACKAO MAKE A SPLASH 2028



"The top 25 movies in 1999 earned \$8 billion in worldwide box office.

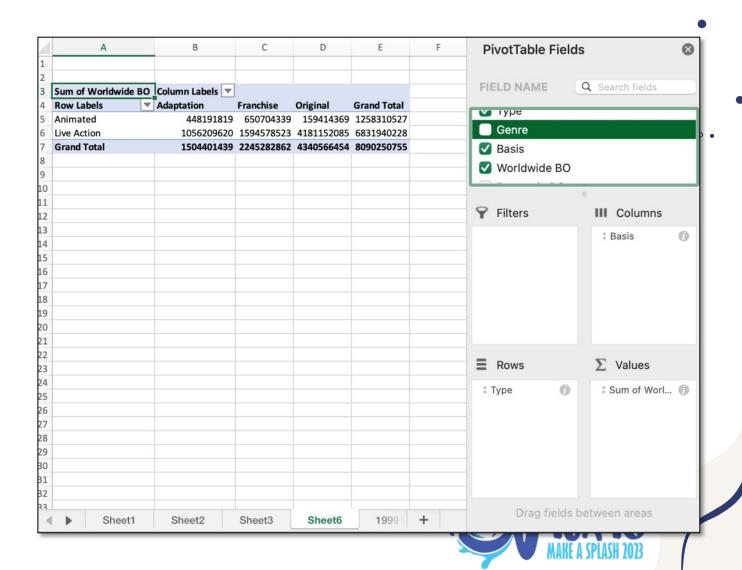
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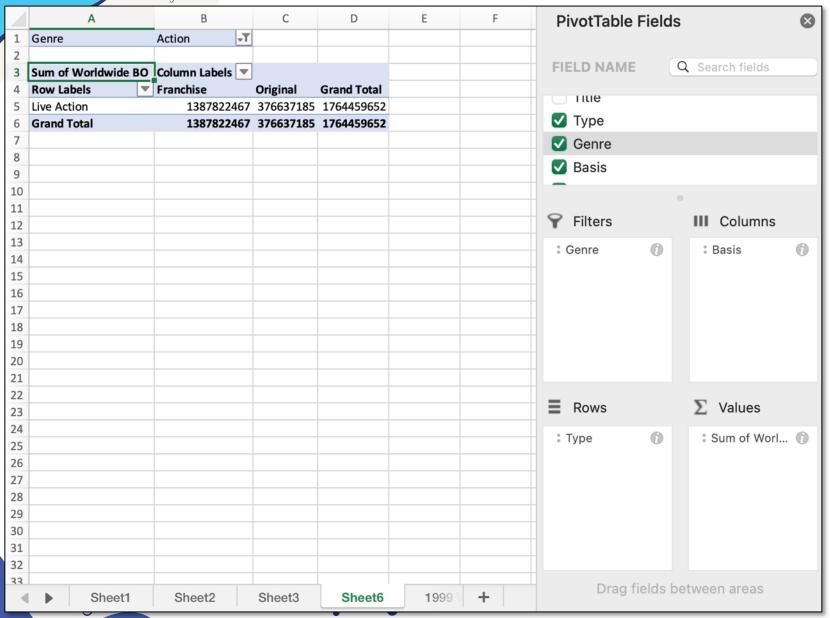
Animated movies earned \$1.3 billion, while live action movies earned \$6.8 billion."



"The top 25 movies in 1999 earned \$8 billion in worldwide box office.

Live action movies earned \$6.8 billion. \$1.6 billion of that \$6.8 billion came from new titles in existing franchises."





"Action movies in the top 25 – all of which. were live and not. animated - earned \$1.8 billion in 1999. New titles in existing franchises accounted for \$1.4 billion of that \$1.8 billion."



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#### **BUT DID YOU KNOW**

You could have found the same answer through filtering and summary shortcuts?

1	Ra ▼	Title			Ty	oe 🔻	Genre-T	Basis 🗸	▼ Worldwide	Domestic B ▼	Foreign BO 🔻	
2			ode I - The Phant			e Action		Franchise				
5		The Matrix				e Action		Franchise			\$292,037,453	
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16												
4	-	Sheet1	Sheet2	Sheet3	S	heet6	199	99 Worldw	ride BO	-		



#### **CREATING CONTENTS**



MAKING YOUR OWN IDS: PARTIALS



#### **LEFT AND RIGHT**

A	2 🛕	×	$\checkmark$ $f_x$ =LEFT(C2,6)						
	Α	В	С	D	Е	F	G	Н	I
1	ID	Rank	Title	Туре	Genre	Basis	Worldwide BO	Domestic BO	Foreign BO
2	Star W	1	Star Wars: Episode I - The Phantom Menace	Live Action	Action	Franchise	\$924,305,084	\$431,088,295	\$493,216,789
3		2	The Sixth Sense	Live Action	Thriller	Original	\$672,806,292	\$293,506,292	\$379,300,000
4		3	Toy Story 2	Animated	Family	Franchise	\$487,059,677	\$245,852,179	\$241,207,498
5		4	The Matrix	Live Action	Action	Franchise	\$463,517,383	\$171,479,930	\$292,037,453

A2	2 🛕	×	$\checkmark f_x$ =RIGHT(C2,6)						
	Α	В	С	D	Е	F	G	Н	1
1	ID	Rank	Title	Туре	Genre	Basis	Worldwide BO	Domestic BO	Foreign BO
2	Menace	1	Star Wars: Episode I - The Phantom Menace	Live Action	Action	Franchise	\$924,305,084	\$431,088,295	\$493,216,789
3		2	The Sixth Sense	Live Action	Thriller	Original	\$672,806,292	\$293,506,292	\$379,300,000
4		3	Toy Story 2	Animated	Family	Franchise	\$487,059,677	\$245,852,179	\$241,207,498
5		4	The Matrix	Live Action	Action	Franchise	\$463,517,383	\$171,479,930	\$292,037,453

#### **CREATING CONTENTS**



MAKING YOUR OWN IDS: PARTIALS



MAKING YOUR OWN IDS: COMBINATIONS



### TEXTJOIN .

A	$2 \qquad \stackrel{\wedge}{\downarrow} \qquad \times \qquad f_X$	=TEXTJOIN(,	,B2,C2,E2)						
	Α	В	С	D	Е	F	G	Formula Builder	8
1	ID	First Name	Last Name	First Year	<b>Final Year</b>	Touchdown Passes			
2	ZekeBratkowski1971	Zeke	Bratkowski	1963	1971	21		Show All Functions	
3		Irv	Comp	1943	1949	28		TEXTJOIN	
4		Lynn	Dickey	1976	1985	133		Delimiter = text	
5		Brett	Favre	1992	2007	442		Delimiter = text	-
6		Arnie	Herber	1930	1940	66			×
7		Cecil	Isbell	1938	1942	61		<b>Ignore_empty</b> = logical	
8		Jack	Jacobs	1947	1949	21			×
9		Don	Majkowski	1987	1992	56		Text1 = "Zeke"	
10		Bob	Monnett	1933	1938	28		<b>●</b> B2	×
11		Babe	Parilli	1952	1958	31			
12		Aaron	Rodgers	2005	2022	475		Text2 = "Bratkowski"	
13		Tobin	Rote	1950	1956	89		• C2	×.
14		Bart	Starr	1956	1971	152		Text3 = "1971"	
15		David	Whitehurst	1977	1983	28		<b>●</b> E2	×.
16		Randy	Wright	1984	1988	31			
17								Result: "ZekeBratkowski1971"	Done

### **FORMULA CONCATENATION**

A	$2 \qquad \stackrel{\wedge}{\downarrow} \times \checkmark f_X$	=CONCATEN	IATE(B2,D2,C2	2)					
$\mathbf{A}$	А	В	С	D	Е	F	G	Formula Builder	8
1	ID	First Name	<b>Last Name</b>	First Year	<b>Final Year</b>	Touchdown Passes			
2	Zeke1963Bratkowski	Zeke	Bratkowski	1963	1971	21		Show All Functions	
3		Irv	Comp	1943	1949	28		CONCATENATE	
4		Lynn	Dickey	1976	1985	133			
5		Brett	Favre	1992	2007	442		Text1 = "Zeke"	
6		Arnie	Herber	1930	1940	66		B2	<u>*</u>
7		Cecil	Isbell	1938	1942	61		Text2 = "1963"	
8		Jack	Jacobs	1947	1949	21		<b>●</b> D2	<b>S</b>
9		Don	Majkowski	1987	1992	56		Text3 = "Bratkowski"	
10		Bob	Monnett	1933	1938	28			
11		Babe	Parilli	1952	1958	31		• C2	×
12		Aaron	Rodgers	2005	2022	475		+	
12		Tohin	Poto	1050	1056	90			



### **MANUAL CONCATENATION**

					0	
A	2	$f_{x}$ =C2&E2				
	Α	В	С	D	Е	F
1	ID	First Name	Last Name	First Year	<b>Final Year</b>	<b>Touchdown Passes</b>
2	Bratkowski1971	Zeke	Bratkowski	1963	1971	21
3		Irv	Comp	1943	1949	28
4		Lynn	Dickey	1976	1985	133
5		Brett	Favre	1992	2007	442
6		Arnie	Herber	1930	1940	66
7		Cecil	Isbell	1938	1942	61
8		Jack	Jacobs	1947	1949	21



### WHY WE LIKE MANUAL CONCATENATION

A	A2 $f_x$ =D2&E2&F2									
	A B C D E F									
1	ID	Rank	Title	Туре	Genre	Basis	Worldwide BO			
2	Live ActionActionFranchise	1	Star Wars: Episode I - The Phantom Menace	Live Action	Action	Franchise	\$924,305,084			
3		2	The Sixth Sense	Live Action	Thriller	Original	\$672,806,292			
4		3	Toy Story 2	Animated	Family	Franchise	\$487,059,677			
5		4	The Matrix	Live Action	Action	Franchise	\$463,517,383			
6		5	Tarzan	Animated	Family	Adaptation	\$448,191,819			
7		6	American Beauty	Live Action	Drama	Original	\$356,296,601			



## WHY WE LOVE MANUAL CONCATENATION

A	A2 $f_x$ =D2&"-"&E2&"-"&F2								
A B C D E F						G			
1	ID	Rank	Title	Туре	Genre	Basis	Worldwide BO		
2	Live Action-Action-Franchise	1	Star Wars: Episode I - The Phantom Menace	Live Action	Action	Franchise	\$924,305,084		
3		2	The Sixth Sense	Live Action	Thriller	Original	\$672,806,292		
4		3	Toy Story 2	Animated	Family	Franchise	\$487,059,677		
5		4	The Matrix	Live Action	Action	Franchise	\$463,517,383		
6	5 Tarzan Animated Family Adaptation \$448,19				\$448,191,819				
7		6	American Beauty	Live Action	Drama	Original	\$356,296,601		



#### WE LOVE MANUAL CONCATENATION

A2	2 $f_x$ = D2&"-"&E2&"-"&F2								
	Α	В	С	D	Е	F	G		
1	ID	Rank	Title	Туре	Genre	Basis	Worldwide BO		
2	Live Action-Action-Franchise	1	Star Wars: Episode I - The Phantom Menace	Live Action	Action	Franchise	\$924,305,084		
3		2	The Sixth Sense	Live Action	Thriller	Original	\$672,806,292		
4		3	Toy Story 2	Animated	Family	Franchise	\$487,059,677		
5		4	The Matrix	Live Action	Action	Franchise	\$463,517,383		
6		5	Tarzan	Animated	Family	Adaptation	\$448,191,819		
7		6	American Beauty	Live Action	Drama	Original	\$356,296,601		

Do you guys know what this is?



## If you double-click that handle. It takes the formula all the way down the wall next to it!

	Α	В	С	D	E	F	G
1	ID	Rank	Title	Туре	Genre	Basis	Worldwide BO
2	Live Action-Action-Franchise	1	Star Wars: Episode I - The Phantom Menace	Live Action	Action	Franchise	\$924,305,084
3	Live Action-Thriller-Original	2	The Sixth Sense	Live Action	Thriller	Original	\$672,806,292
4	Animated-Family-Franchise	3	Toy Story 2	Animated	Family	Franchise	\$487,059,677
5	Live Action-Action-Franchise	4	The Matrix	Live Action	Action	Franchise	\$463,517,383
6	Animated-Family-Adaptation	5	Tarzan	Animated	Family	Adaptation	\$448,191,819
7	Live Action-Drama-Original	6	American Beauty	Live Action	Drama	Original	\$356,296,601
8	Live Action-Comedy-Original	7	Runaway Bride	Live Action	Comedy	Original	\$309,460,292
9	Live Action-Family-Adaptation	8	Stuart Little	Live Action	Family	Adaptation	\$300,135,367
10	Live Action-Drama-Adaptation	9	The Green Mile	Live Action	Drama	Adaptation	\$286,801,374
11	Live Action-Thriller-Original	10	The Blair Witch Project	Live Action	Thriller	Original	\$248,639,099
12	Live Action-Comedy-Original	11	American Pie	Live Action	Comedy	Original	\$235,483,004
13	Live Action-Comedy-Original	12	Big Daddy	Live Action	Comedy	Original	\$234,801,895
14	Live Action-Comedy-Original	13	Wild Wild West	Live Action	Comedy	Original	\$222,104,681
15	Live Action-Drama-Original	14	Entrapment	Live Action	Drama	Original	\$212,404,396
16	Live Action-Action-Original	15	End of Days	Live Action	Action	Original	\$211,989,043
17	Live Action-Comedy-Franchise	16	Austin Powers: The Spy Who Shagged Me	Live Action	Comedy	Franchise	\$206,756,056
18	Live Action-Drama-Adaptation	17	Sleepy Hollow	Live Action	Drama	Adaptation	\$206,071,502
19	Live Action-Drama-Original	18	Double Jeopardy	Live Action	Drama	Original	\$177,841,558
20	Live Action-Thriller-Original	19	The Haunting	Live Action	Thriller	Original	\$177,311,151
21	Live Action-Comedy-Original	20	Analyze This	Live Action	Comedy	Original	\$176,885,658
22	Live Action-Action-Original	21	Deep Blue Sea	Live Action	Action	Original	\$164,648,142



#### **CREATING CONTENTS**



MAKING YOUR OWN IDS: PARTIALS



MAKING YOUR OWN IDS: COMBINATIONS



MAKING YOUR OWN IDS: WORDY BITS

### **MAKING DATA FROM DATA**

	А	В	С	D	Е	F
1	Name	First Name	Last Name	First Year	<b>Final Year</b>	Touchdown Passes
2	Aaron Rodgers			2005	2022	475
3	Brett Favre			1992	2007	442
4	Bart Starr			1956	1971	152
5	Lynn Dickey			1976	1985	133
6	Tobin Rote			1950	1956	89
7	Arnie Herber			1930	1940	66
8	Cecil Isbell			1938	1942	61
9	Don Majkowski			1987	1992	56
10	Babe Parilli			1952	1958	31
11	Randy Wright			1984	1988	31
12	Irv Comp			1943	1949	28
13	Bob Monnett			1933	1938	28
14	David Whitehurst			1977	1983	28
15	Zeke Bratkowski			1963	1971	21
16	Jack Jacobs			1947	1949	21



#### **MAKING DATA FROM DATA**

	А	В	С	D	Е	F
1	Name	First Name	<b>Last Name</b>	First Year	<b>Final Year</b>	Touchdown Passes
2	Aaron Rodgers			2005	2022	475



#### **MAKING DATA FROM DATA**

0

	А	В	С	D	Е	F
1	Name	First Name	Last Name	First Year	<b>Final Year</b>	Touchdown Passes
2	Aaron Rodgers			2005	2022	475

"The first name is easy enough. It's on the left. So: =LEFT(A2,[however many spaces I need... oh.])



#### **MAKING DATA FROM DATA**

0

	А	В	С	D	Е	F
1	Name	First Name	Last Name	First Year	<b>Final Year</b>	Touchdown Passes
2	Aaron Rodgers			2005	2022	475

"The first name is easy enough. It's on the left. So: =LEFT(A2,[however many spaces I need... oh.])

"The last name is even harder than that. I need:

=RIGHT(A2,[however long from the right until the gap])

#### **MAKING DATA FROM DATA**

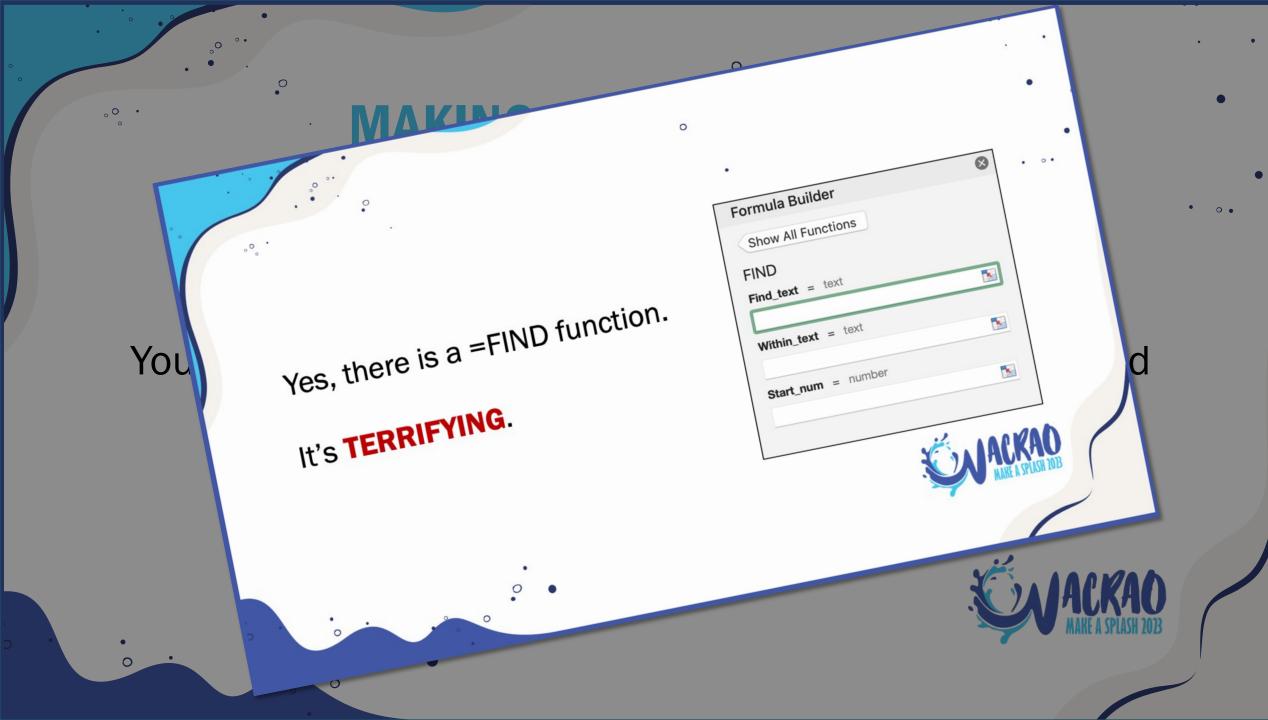
0

	А	В	С	D	Е	F
1	Name	First Name	Last Name	First Year	<b>Final Year</b>	Touchdown Passes
2	Aaron Rodgers			2005	2022	475

You need to know how far along that empty space is, and then use it to guide other functions.

Enter = MID... and return of = FIND.





#### MAKIN









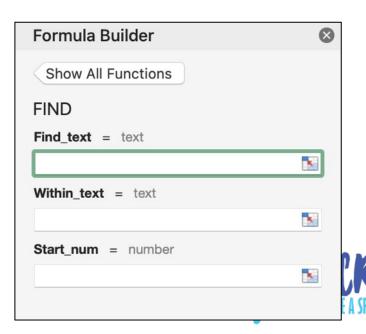
0

**=FIND** searches for a patch of text in a cell and tells you when it first encounters it.

"Tell me where to find this thingy..."

"...in this cell..."

"...starting from here."



0

	A	В	С	D	Е	F
1	Name	First Name	<b>Last Name</b>	First Year	<b>Final Year</b>	Touchdown Passes
2	Aaron Rodgers			2005	2022	475

=FIND("a",A2,1) 1

=FIND("o",A2,1) 4

=FIND("d",A2,1) 9

=FIND(" ",A2,1) 6



	А	В	С	D	Е	F
1	Name	First Name	Last Name	First Year	<b>Final Year</b>	<b>Touchdown Passes</b>
2	Aaron Rodgers			2005	2022	475

**=LEFT(A2,FIND(" ",A2,1))** 

**=LEFT(A2,6)** 

0

=Aaron\_



	A	В	С	D	Е	F
1	Name	First Name	<b>Last Name</b>	First Year	<b>Final Year</b>	Touchdown Passes
2	Aaron Rodgers			2005	2022	475

**=LEFT(A2,FIND(" ",A2,1))** 

**=LEFT(A2,6)** 

0

=Aaron\_

=LEFT(A2,FIND(" ",A2,1)-1)

=LEFT(A2,5)

=Aaron



	A	В	С	D	Е	F
1	Name	First Name	<b>Last Name</b>	First Year	<b>Final Year</b>	Touchdown Passes
2	Aaron Rodgers			2005	2022	475

=RIGHT(A2,FIND(" ",A2,1))

**=RIGHT(A2,6)** 



7	A	В	С	D	Е	F
1	Name	First Name	Last Name	First Year	<b>Final Year</b>	Touchdown Passes
2	Aaron Rodgers			2005	2022	475

#### =RIGHT(A2,FIND(" ",A2,1))

**=RIGHT(A2,6)** 

0



=odgers

=\_Favre

=Starr

=ickey

=n Rote

=wski



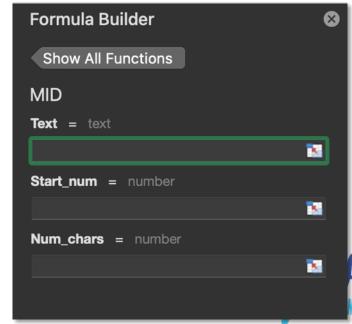


### **=MID** searches for a patch of text in a cell and tells you what follows it.

"In this cell..."

"...start at this position..."

"...and give me the following X characters, including that one."



#### **MID**

0

$\mathbf{A}$	А	В	С	D	Е	F
1	Name	First Name	Last Name	First Year	<b>Final Year</b>	Touchdown Passes
2	Aaron Rodgers			2005	2022	475

=MID(A2,1,1) A

=MID(A2,3,2) ro

=MID(A2,7,7) Rodgers

**=MID(A2,7,1000000)** Rodgers



# IF WE CAN JUST TELL EXCEL WHERE THE SPACE IS, WE CAN SAY "GIVE ME EVERYTHING AFTER THAT" Aaron Rodgers AND SIMULATE A USEFUL = RIGHT EQUATION!

=MID(A2,1,1) A

=MID(A2,3,2) ro

=MID(A2,7,7) Rodgers

**=MID(A2,7,1000000)** Rodgers



#### FIND + MID.

	A	В	С	D	Е	F
1	Name	First Name	<b>Last Name</b>	First Year	<b>Final Year</b>	Touchdown Passes
2	Aaron Rodgers			2005	2022	475

=MID(A2,FIND(" ",A2,1),1000)

=MID(A2,6,1000)

=\_Rodgers



#### FIND + MID.

$\mathbf{A}$	А	В	С	D	Е	F
1	Name	First Name	Last Name	First Year	<b>Final Year</b>	Touchdown Passes
2	Aaron Rodgers			2005	2022	475

=MID(A2,FIND(" ",A2,1),1000)

=MID(A2,6,1000)

=\_Rodgers

0

=MID(A2,FIND(" ",A2,1)+1,1000)

=MID(A2,7,1000)

=Rodgers





### **ADVANCED**

IN WHICH WE TAP INTO
ADVANCED LEVELS OF SORCERY

## APPEND The most advanced thing we'll do is INCORPORATE data. IMPORT

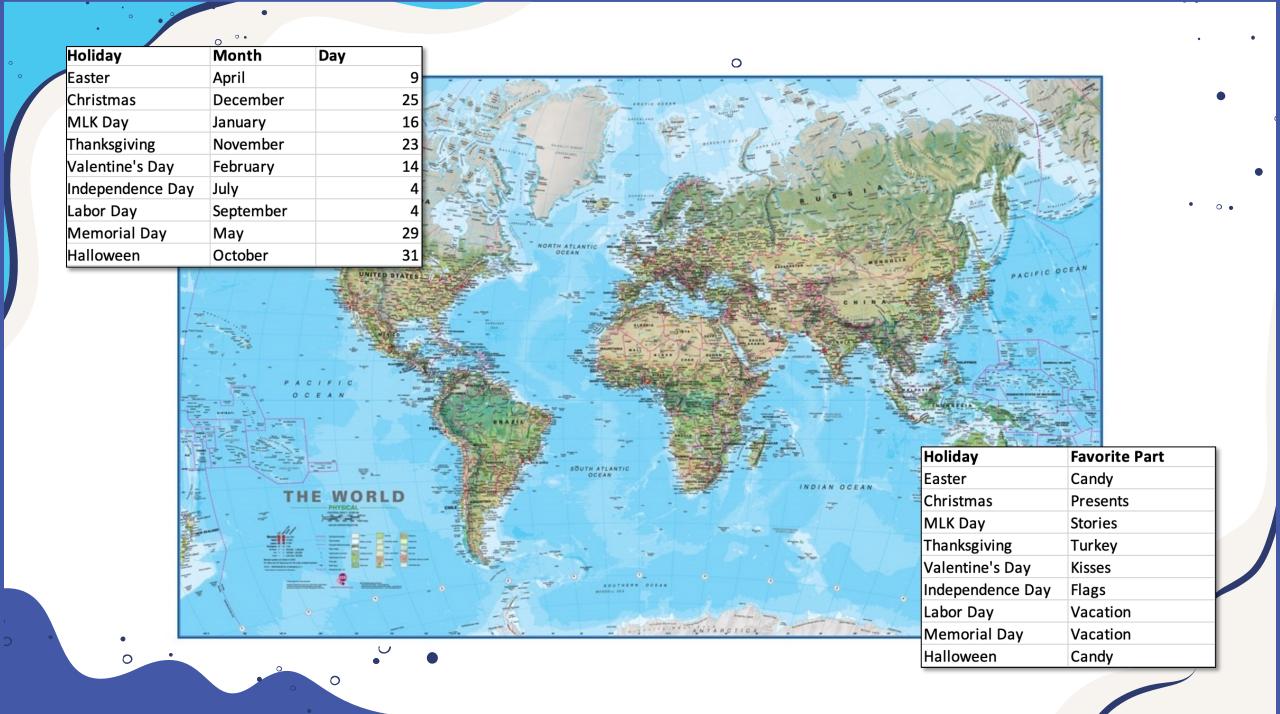


Holiday	Month	Day
Easter	April	9
Christmas	December	25
MLK Day	January	16
Thanksgiving	November	23
Valentine's Day	February	14
Independence Day	July	4
Labor Day	September	4
Memorial Day	May	29
Halloween	October	31

"My main table is right here...

...but I need some data from over there."

Holiday	<b>Favorite Part</b>
Easter	Candy
Christmas	Presents
MLK Day	Stories
Thanksgiving	Turkey
Valentine's Day	Kisses
Independence Day	Flags
Labor Day	Vacation
Memorial Day	Vacation
Halloween	Candy



#### THE "BEFORE TODAY" EXCEL USER:

I'll just copy that column over.

Holiday	Month	Day
Easter	April	9
Christmas	December	25
MLK Day	January	16
Thanksgiving	November	23
Valentine's Day	February	14
Independence Day	July	4
Labor Day	September	4
Memorial Day	May	29
Halloween	October	31

Holiday	<b>Favorite Part</b>
Easter	Candy
Christmas	Presents
MLK Day	Stories
Thanksgiving	Turkey
Valentine's Day	Kisses
Independence Day	Flags
Labor Day	Vacation
Memorial Day	Vacation
Halloween	Candy



#### THE "BEFORE TODAY" EXCEL USER:

I'll just copy that column over.

Holiday	Month	Day
Easter	April	9
Christmas	December	25
MLK Day	January	16
Thanksgiving	November	23
Valentine's Day	February	14
Independence Day	July	4
Labor Day	September	4
Memorial Day	May	29
Halloween	October	31

Holiday	<b>Favorite Part</b>
Easter	Candy
Christmas	Presents
MLK Day	Stories
Thanksgiving	Turkey
Valentine's Day	Kisses
Independence Day	Flags
Labor Day	Vacation
Memorial Day	Vacation
Halloween	Candy
Arbor Day	Planting
President's Day	Vacation
New Year's Day	Parade
St. Patrick's Day	Shamrocks
Vernal Equinox	Reflection
Winter Solstice	Snow
Diwali	Candles
Hanukkah	Games



#### THE "BEFORE TODAY" EXCEL USER:

I'll just copy that column over.

Holiday	Month	Day
Easter	April	9
Christmas	December	25
MLK Day	January	16
Thanksgiving	November	23
Valentine's Day	February	14
Independence Day	July	4
Labor Day	September	4
Memorial Day	May	29
Halloween	October	31

Holiday	<b>Favorite Part</b>
Arbor Day	Planting
Christmas	Presents
Diwali	Candles
Easter	Candy
Halloween	Candy
Hanukkah	Games
Independence Day	Flags
Labor Day	Vacation
Memorial Day	Vacation
MLK Day	Stories
New Year's Day	Parade
President's Day	Vacation
St. Patrick's Day	Shamrocks
Thanksgiving	Turkey
Valentine's Day	Kisses
Vernal Equinox	Reflection
Winter Solstice	Snow



#### THE "TODAY" EXCEL USER:

I'll figure out how Excel can help me do this.

Holiday	Month	Day
Easter	April	9
Christmas	December	25
MLK Day	January	16
Thanksgiving	November	23
Valentine's Day	February	14
Independence Day	July	4
Labor Day	September	4
Memorial Day	May	29
Halloween	October	31

Holiday	<b>Favorite Part</b>
Arbor Day	Planting
Christmas	Presents
Diwali	Candles
Easter	Candy
Halloween	Candy
Hanukkah	Games
Independence Day	Flags
Labor Day	Vacation
Memorial Day	Vacation
MLK Day	Stories
New Year's Day	Parade
President's Day	Vacation
St. Patrick's Day	Shamrocks
Thanksgiving	Turkey
Valentine's Day	Kisses
Vernal Equinox	Reflection
Winter Solstice	Snow



### THE ANSWER USED TO BE =VLOOKUP

D2	f =VLOOKUP(	A2,F:G,2,0)	
A	В	С	D
1 Holiday	Month	Day	Favorite Part
2 Easter	April	g	Candy
3 Christmas	December	25	
4 MLK Day	January	16	5
5 Thanksgiving	November	23	3
6 Valentine's Day	February	14	·
7 Independence Day	July	4	
8 Labor Day	September	4	L
9 Memorial Day	May	29	
10 Halloween	October	31	

F	G
Holiday	Favorite Part
Arbor Day	Planting
Christmas	Presents
Diwali	Candles
Easter	Candy
Halloween	Candy
Hanukkah	Games
Independence Day	Flags
Labor Day	Vacation
Memorial Day	Vacation
MLK Day	Stories
New Year's Day	Parade
President's Day	Vacation
St. Patrick's Day	Shamrocks
Thanksgiving	Turkey
Valentine's Day	Kisses
Vernal Equinox	Reflection
Winter Solstice	Snow

N	MID $f_x = \text{VLOOKUP(A2,F:G,2,0)}$										
	А	В	С	D	Е	F	G	Formula Builder			
1	Holiday	Month	Day	Favorite Part		Holiday	<b>Favorite Part</b>				
2	Easter	April	9	A2,F:G,2,0)		Arbor Day	Planting	Show All Functions			
3	Christmas	December	25			Christmas	Presents	VLOOKUP			
4	MLK Day	January	16			Diwali	Candles	Lookup_value = "Easter"			
5	Thanksgiving	November	23			Easter	Candy				
6	Valentine's Day	February	14			Halloween	Candy	A2			
7	Independence Day	July	4			Hanukkah	Games	Table_array = {}			
8	Labor Day	September	4			Independence Day	Flags	F:G			
9	Memorial Day	May	29			Labor Day	Vacation	Col_index_num = 2			
10	Halloween	October	31			Memorial Day	Vacation	2			
11						MLK Day	Stories				
12						New Year's Day	Parade	Range_lookup = FALSE			
13						President's Day	Vacation	0			
14						St. Patrick's Day	Shamrocks				
15						Thanksgiving	Turkey				
16						Valentine's Day	Kisses	Result: "Candy" Done			
17						Vernal Equinox	Reflection	Nosuit. Carray			
18						Winter Solstice	Snow	f <sub>x</sub> VLOOKUP			
19								JA VEGGICOI			

М	MID $f_x = \text{VLOOKUP(A2,F:G,2,0)}$									
	А	В	С	D	E	F	G	ŀ	Formula Builder	
1	Holiday	Month	Day	<b>Favorite Part</b>		Holiday	Favorite Part			
2	Easter	April	9	A2,F:G,2,0)	ļ	Arbor Day	Planting		Show All Functions	
3	Christmas	December	25			Christmas	Presents		VLOOKUP	
4	MLK Day	January	16			Diwali	Candles		Lookup_value = "Easter"	
5	Thanksgiving	November	23			Easter	Candy			
6	Valentine's Day	February	14			Halloween	Candy		Look for THIS thing	
7	Independence Day	July	4			Hanukkah	Games		Table_array = {}	
8	Labor Day	September	4		Ove	r HERE, which	starts with the co	olum	nn where you can find the thing	
9	Memorial Day	May	29			Labor Day	vacation		Col_index_num = 2	
10 11	Halloween	October	31	\	When yo	ou find it, tell m	ne what's in the	Nth (	column of that table I just drew	
12						New Year's Day	Darada		Range_lookup = FALSE	
13						President's Day	Look for exact	ly tha	at thing, not something "close"	
14						St. Patrick's Day	Shamrocks			
15						Thanksgiving	Turkey			
16						Valentine's Day	Kisses		Result: "Candy" Done	
17						Vernal Equinox	Reflection		Nosait. Gallay	
18						Winter Solstice	Snow		$f_{x}$ VLOOKUP	
19									J. 1200101	

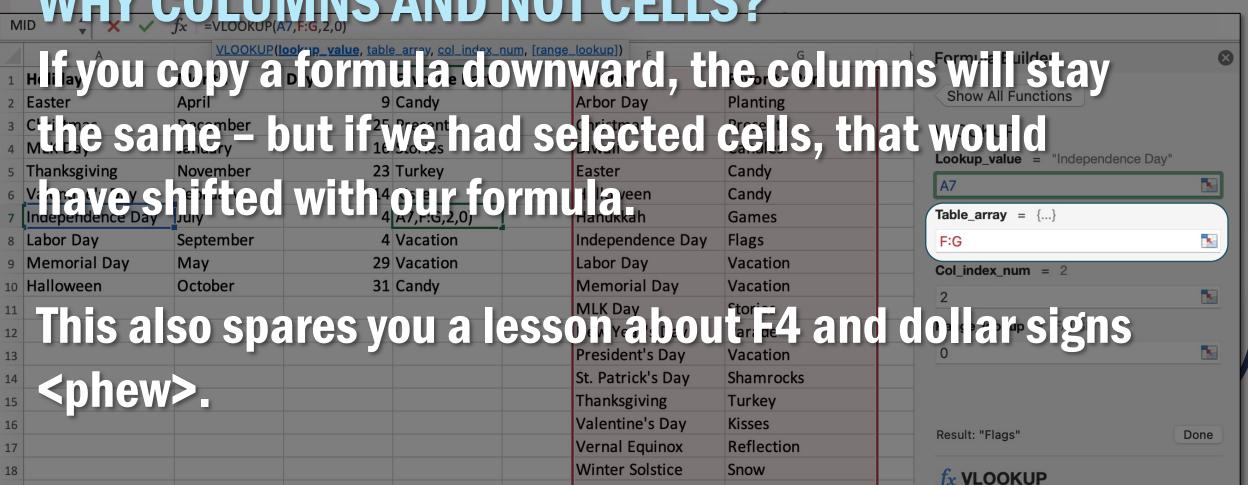
N	11D 💠 🗙 🗸	$f_{\mathcal{X}}$ =VLOOKUP	(A2,F:G,2,0)				-			
	А	В	С	D	Е	F	G	ŀ	Formula Builder	8
1	Holiday	Month	Day	Favorite Part		Holiday	<b>Favorite Part</b>			
2	Easter	April	9	A2,F:G,2,0)		Arbor Day	Planting		Show All Functions	
3	Christmas	December	25			Christmas	Presents		VLOOKUP	
4	MLK Day	January	16			Diwali	Candles		Lookup_value = "Easter"	
5	Thanksgiving	November	23			Easter	Candy			?7
6	Valentine's Day	February	14			Halloween	Candy		Look for "Easte	r
7	Independence Day	July	4			Hanukkah	Games		Table_array = {}	
8	Labor Day	September	4			Independence Day	In E:F, and you	shou	ald be able to spot "Easter" in	Εl
9	Memorial Day	May	29			Labor Day	vacation		Col_index_num = 2	
10	Halloween	October	31			Memorial Day	Vacation	ll me	what's in the 2 <sup>nd</sup> column of E	. F
11						MLK Day	Stories	II IIIC		٠'
12						New Year's Day	Darado		Range_lookup = FALSE	
13						President's Day	ook for exactly	"Eas	ter", not "Leaster" or "Easty" (	or
14						St. Patrick's Day	Shamrocks			
15						Thanksgiving	Turkey			
16						Valentine's Day	Kisses		Result: "Candy" Done	
17						Vernal Equinox	Reflection		Nesult. Calluy	
18						Winter Solstice	Snow		$f_{\mathcal{X}}$ VLOOKUP	
19									J. VLOOKOI	

М	ID 💠 🗙 🗸	$f_{x}$ =VLOOKUF	P(A7,F:G,2,0)					
	А	VLOOKUI	(lookup_value, table	<u>array, col_index_num,</u>	[range_lookup]) F	G	Formula Builder	8
1	Holiday	Month	Day	Favorite Part	Holiday	<b>Favorite Part</b>		
2	Easter	April	9	Candy	Arbor Day	Planting	Show All Functions	
3	Christmas	December	25	Presents	Christmas	Presents	VLOOKUP	
4	MLK Day	January	16	Stories	Diwali	Candles	Lookup_value = "Independence Day"	
5	Thanksgiving	November	23	Turkey	Easter	Candy		
6	Valentine's Day	February	14	Kisses	Halloween	Candy	A7	×.
7	Independence Day	July	4	A7,F:G,2,0)	Hanukkah	Games	Table_array = {}	
8	Labor Day	September	4	Vacation	Independence Day	Flags	F:G	×.
9	Memorial Day	May	29	Vacation	Labor Day	Vacation	Col_index_num = 2	
10	Halloween	October	31	Candy	Memorial Day	Vacation		×.
11					MLK Day	Stories		
12					New Year's Day	Parade	Range_lookup = FALSE	
13					President's Day	Vacation	0	K.
14					St. Patrick's Day	Shamrocks		
15					Thanksgiving	Turkey		
16					Valentine's Day	Kisses	Populty "Flogo"	no
17					Vernal Equinox	Reflection	Result: "Flags" Doi	ile
18					Winter Solstice	Snow	$f_X$ VLOOKUP	
19							JX VLOOKOF	

#### THE ANSWER USED TO BE =VLOOKUP

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#### WHY COLUMNS AND NOT CELLS?



IN 2021, THE ANSWER BECAME =XLOOKUP

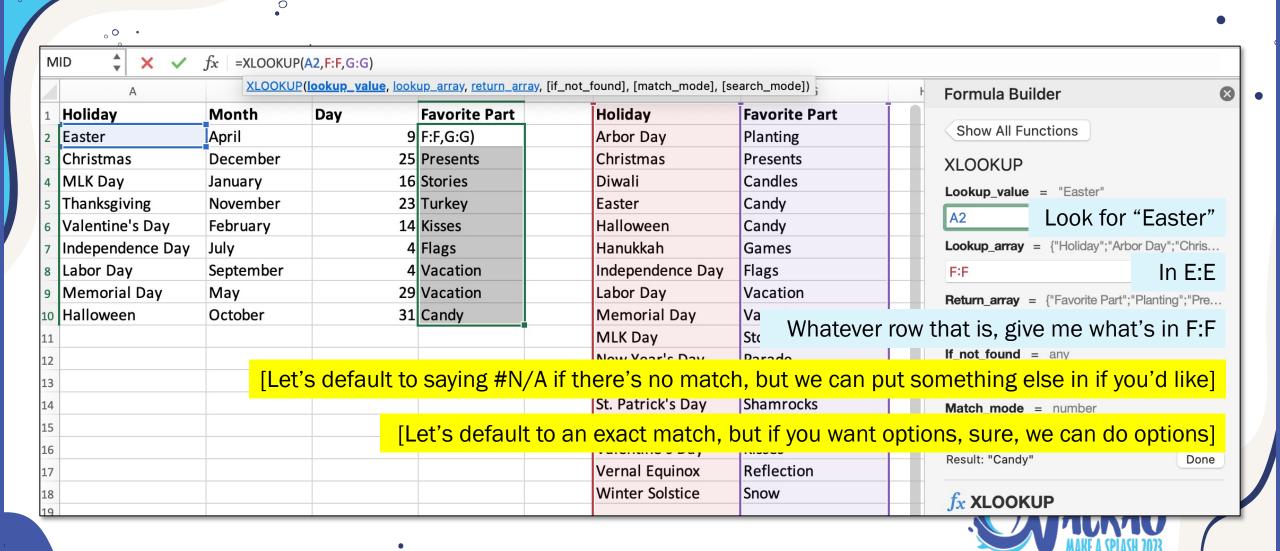


#### **ANNOYING THINGS ABOUT = VLOOKUP**

- You have to carefully define a "second table" that necessarily starts with the place to look for your matching ID.
- You have to count out the steps to take before it returns a value to you.
- You have to instruct it to make an exact match rather than a fuzzy match.







	A	В	С	D	E	F	G	Formula Builder	×
1	Holiday	Month	Day	<b>Favorite Part</b>		Holiday	<b>Favorite Part</b>		
2	Easter	April	9	Candy		Arbor Day	Planting	Show All Functions	
3	Christmas	December	25	Presents		Christmas	Presents	XLOOKUP	
4	MLK Day	January	16	Stories		Diwali	Candles	Lookup_value = "Int'l Coffee Day	, II
5	Thanksgiving	November	23	Turkey		Easter	Candy		
6	Valentine's Day	February	14	Kisses		Halloween	Candy	A11	×
7	Independence Day	July	4	Flags		Hanukkah	Games	Lookup_array = {"Holiday";"Arbor [	Day";"Chris
8	Labor Day	September	4	Vacation		Independence Day	Flags	F:F	N.
9	Memorial Day	May	29	Vacation		Labor Day	Vacation	Return_array = {"Favorite Part";"Pla	anting":"Pre
10	Halloween	October	<del>31</del>	Candy		Memorial Day	Vacation	G:G	• · · · · · · · · · · · · · · · · · · ·
11	Int'l Coffee Day	October	1	NEED DATA		MLK Day	Stories		-21
12						New Year's Day	Parade	If_not_found = "NEED DATA"	
13						President's Day	Vacation	"NEED DATA"	×
14						St. Patrick's Day	Shamrocks	Match_mode = number	
15						Thanksgiving	Turkey		- Te
16						Valentine's Day	Kisses	Result: "NEED DATA"	Done
17						Vernal Equinox	Reflection	Result. NEED DATA	Done
18						Winter Solstice	Snow	$f_{x}$ XLOOKUP	

#### **ANNOYING THINGS ABOUT = VLOOKUP**

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- You have to carefully define a "second table" that
  necessarily starts with the place to look for your
  matching ID.
- You have to count out the steps to take before it returns a value to you.

  Point me where to go!
- You have to instruct it to make an exact match rather than a fuzzy match.

Let's make a safe assumption!

D:	2 Å × ∨	$f_x$ =XLOO	KUP(A2,G:G,H:H,	"NEED DATA")						
	A	В	С	D	Е	F G	Н	I J	K	
1	Holiday	Month	Day	Favorite Part	What to Wear	Holiday	Favorite Part	Holiday	What to Wear	
2	Easter	April	9	Candy	Dress	Arbor Day	Planting	Arbor Day	Casual	
3	Christmas	December	25			Christmas	Presents	Christmas	Dress	
4	MLK Day	January	16			Diwali	Candles	Diwali	Dress	
5	Thanksgiving	November	23			Easter	Candy	Easter	Dress	
6	Valentine's Day	February	14			Halloween	Candy	Halloween	Casual	
7	Independence Day	July	4			Hanukkah	Games	Hanukkah	Dress	
8	Labor Day	September	4			Independence Day	Flags	Independence Day	Casual	
9	Memorial Day	May	29			Labor Day	Vacation	Labor Day	Casual	
10	Halloween	October	31			Memorial Day	Vacation	Memorial Day	Casual	
11	Int'l Coffee Day	October	1			MLK Day	Stories	MLK Day	Casual	
12						New Year's Day	Parade	New Year's Day	Dress	
13						President's Day	Vacation	President's Day	Casual	
14						St. Patrick's Day	Shamrocks	St. Patrick's Day	Casual	
15						Thanksgiving	Turkey	Thanksgiving	Dress	
16						Valentine's Day	Kisses	Valentine's Day	Dress	
17						Vernal Equinox	Reflection	Vernal Equinox	Casual	
18						Winter Solstice	Snow	Winter Solstice	Dress	
9										

D	2 🛕 × 🗸	$f_{x}$ =XLOOK	UP(A2,G:G,H:H,	"NEED DATA")			·					
1	STUDENT ID	COURS	SE DATA	Favorite Part	E What to Wear	S	STUDENT ID	BIRTHDATE	I	STUDENT ID	STATUS	
2	Easter	April	9	Candy	Dress		Arbor Day	Planting	_	Arbor Day	Casual	
3	Christmas	December	25				Christmas	Presents		Christmas	Dress	
4	MLK Day	January	16				Diwali	Candles		Diwali	Dress	
5	Thanksgiving	November	23				Easter	Candy		Easter	Dress	
6	Valentine's Day	February	14				Halloween	Candy		Halloween	Casual	
7	Independence Day	July	4				Hanukkah	Games		Hanukkah	Dress	
8	Labor Day	September	4				Independence Day	Flags		Independence Day	Casual	
9	Memorial Day	May	29				Labor Day	Vacation		Labor Day	Casual	
10	Halloween	October	31				Memorial Day	Vacation		Memorial Day	Casual	
11	Int'l Coffee Day	October	1				MLK Day	Stories		MLK Day	Casual	
12							New Year's Day	Parade		New Year's Day	Dress	
13							President's Day	Vacation		President's Day	Casual	
14							St. Patrick's Day	Shamrocks		St. Patrick's Day	Casual	
15							Thanksgiving	Turkey		Thanksgiving	Dress	
16							Valentine's Day	Kisses		Valentine's Day	Dress	
17							Vernal Equinox	Reflection		Vernal Equinox	Casual	
18							Winter Solstice	Snow		Winter Solstice	Dress	
19												

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Ceiling

Wall

**Control-Z** 

**Control-Y** 





**Paste Values Filter =UNIQUE Summary Shortcuts PivotTables** & =FIND/=MID



**=VLOOKUP** =XLOOKUP