

# Efficient column charts

DATA VISUALIZATION IN SPREADSHEETS



**Raina Hawley**

Owner/Instructor of OzGrid Business Applications

# Tables and lists

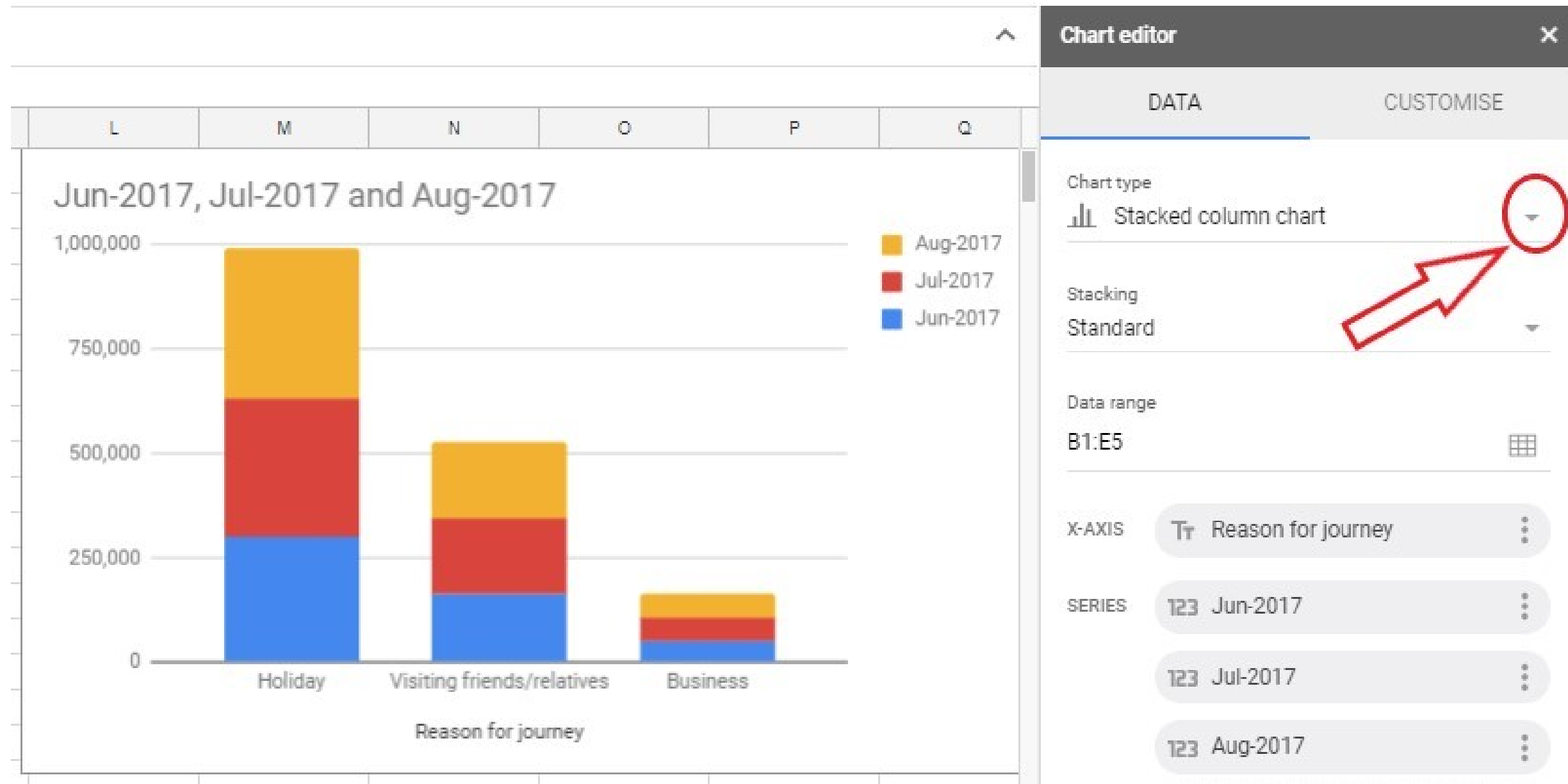
	A	B	C	D	E	F	G	H
1	Example of table. Data stored in columns and rows					Example of a List 1		Example of a List 2
2	Why do people come to Australia?					Reason for journey		Reason for journey
3	Reason for journey	Jun-2017	Jul-2017	Aug-2017		Holiday		Holiday
4	Holiday	300,800	330,900	358,500		Visiting friends/relatives		June-2017
5	Visiting friends/relatives	164,000	181,200	181,900		Business		300,800
6	Business	50,600	56,000	57,600		Education		Jul-2017
7	Education	28,800	107,800	35,600		Convention/conference		330,900
8	Convention/conference	17,700	25,500	28,100		Other & not stated		Aug-2017
9	Other & not stated	21,200	27,900	23,800		Employment		358,500
10	Employment	22,900	16,800	17,300				

- Table - related data stored in columns and rows
- List - manage or analyze a smaller set or sets of data

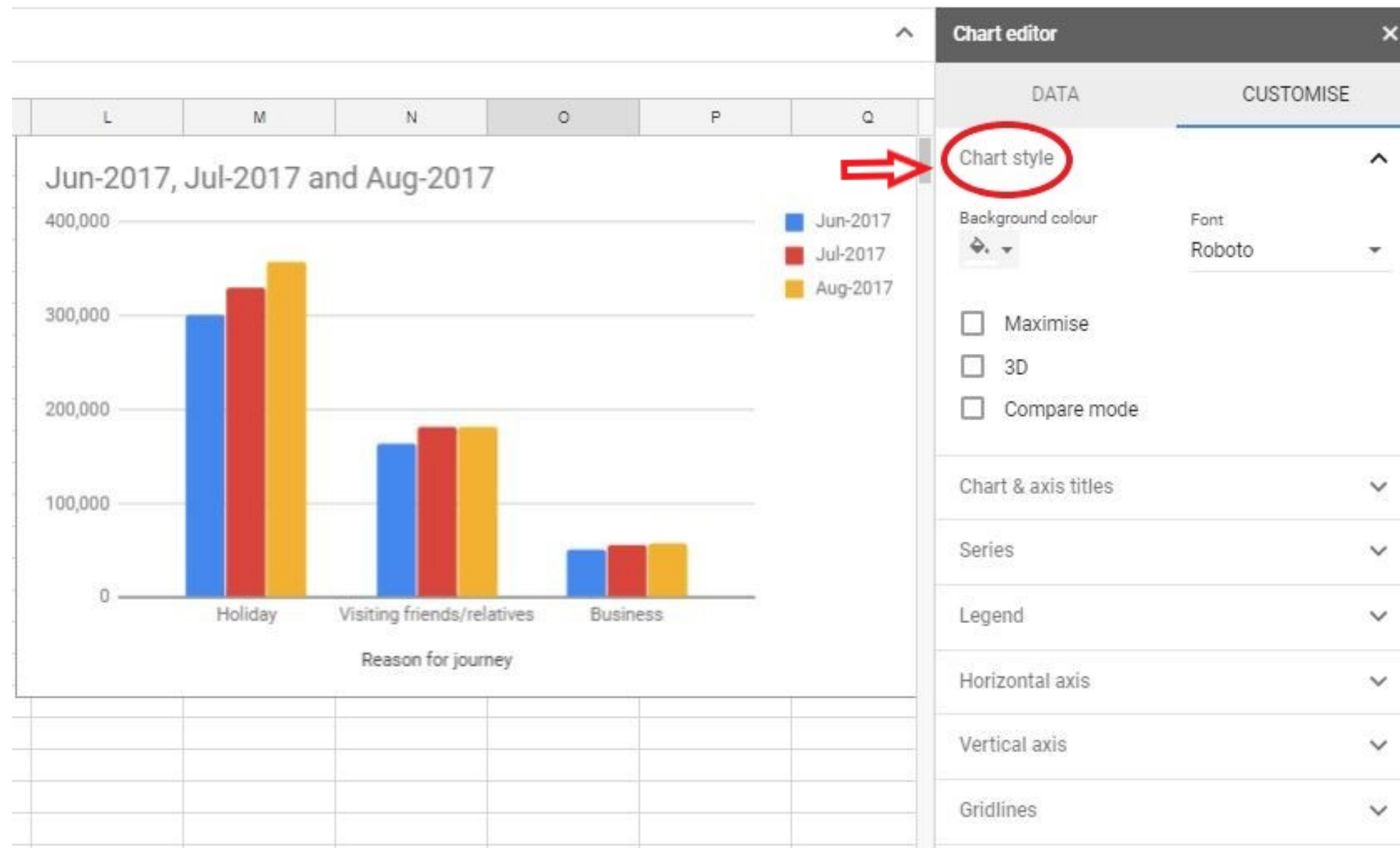
# Non-contiguous data

A	B	C	D	E	F	G	H	I	J
Why do people come to Australia?									
	Reason for journey	Jun-2017	Jul-2017	Aug-2017	Sep-2017	Oct-2017	Nov-2017	Dec-2017	TOTAL
1	Holiday	300,800	330,900	358,500	307,200	355,300	377,500	481,400	2,511,600
2	Visiting friends/relatives	164,000	181,200	181,900	199,200	203,900	231,000	420,100	1,581,300
3	Business	50,600	56,000	57,600	56,300	67,200	73,000	36,500	397,200
4	Education	28,800	107,800	35,600	28,000	37,100	24,000	24,600	285,900
5	Convention/conference	17,700	25,500	28,100	28,100	32,500	29,700	14,700	176,300
6	Other & not stated	21,200	27,900	23,800	25,000	25,800	24,400	18,500	166,600
7	Employment	22,900	16,800	17,300	19,900	19,400	17,400	14,700	128,400

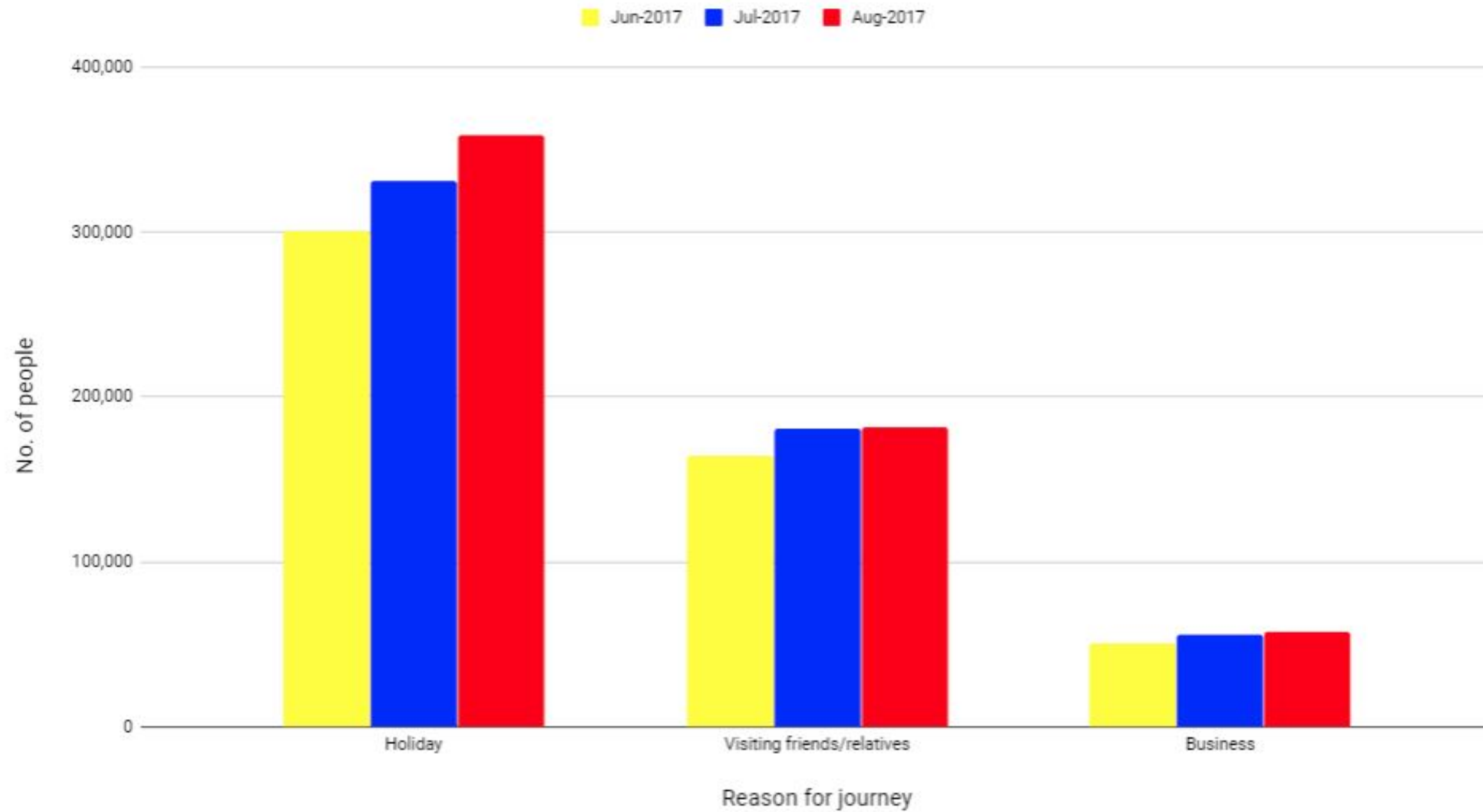
# Changing the chart



# Formatting the chart



## Top 3 Reasons for Journey to Australia



# Time to practice!

DATA VISUALIZATION IN SPREADSHEETS

# Axis, gridlines, and changing the plot

DATA VISUALIZATION IN SPREADSHEETS

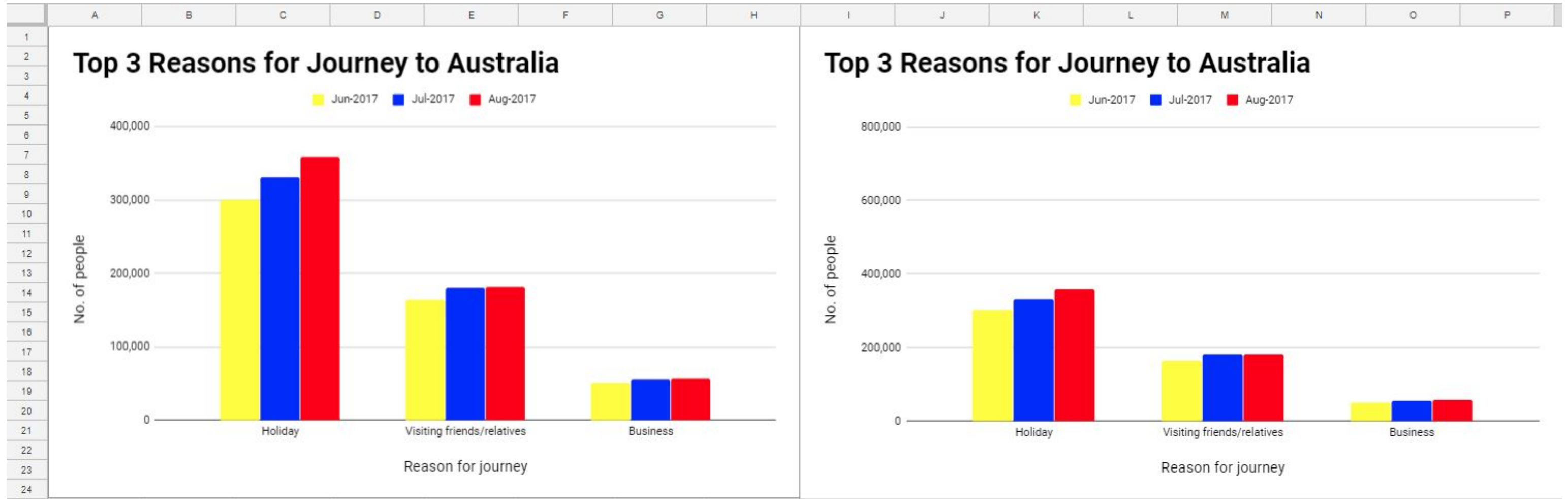


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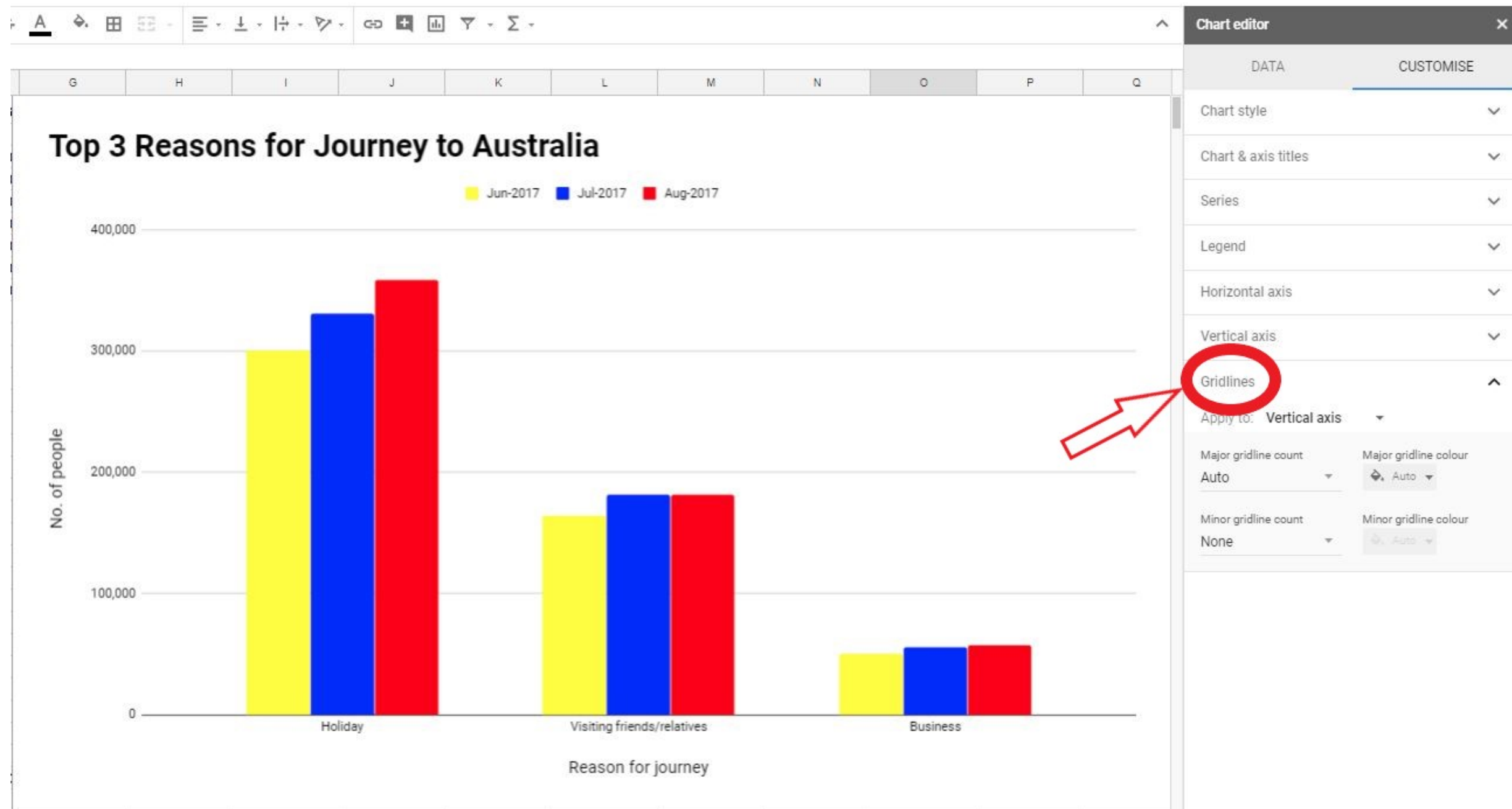
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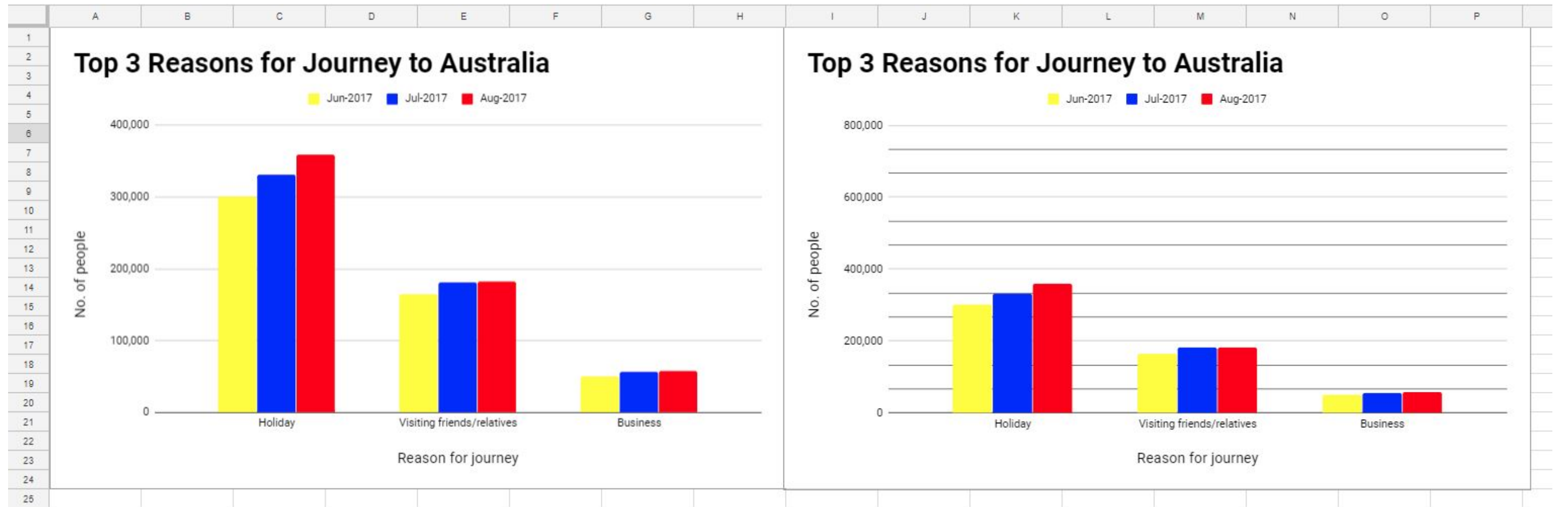
# Axis values



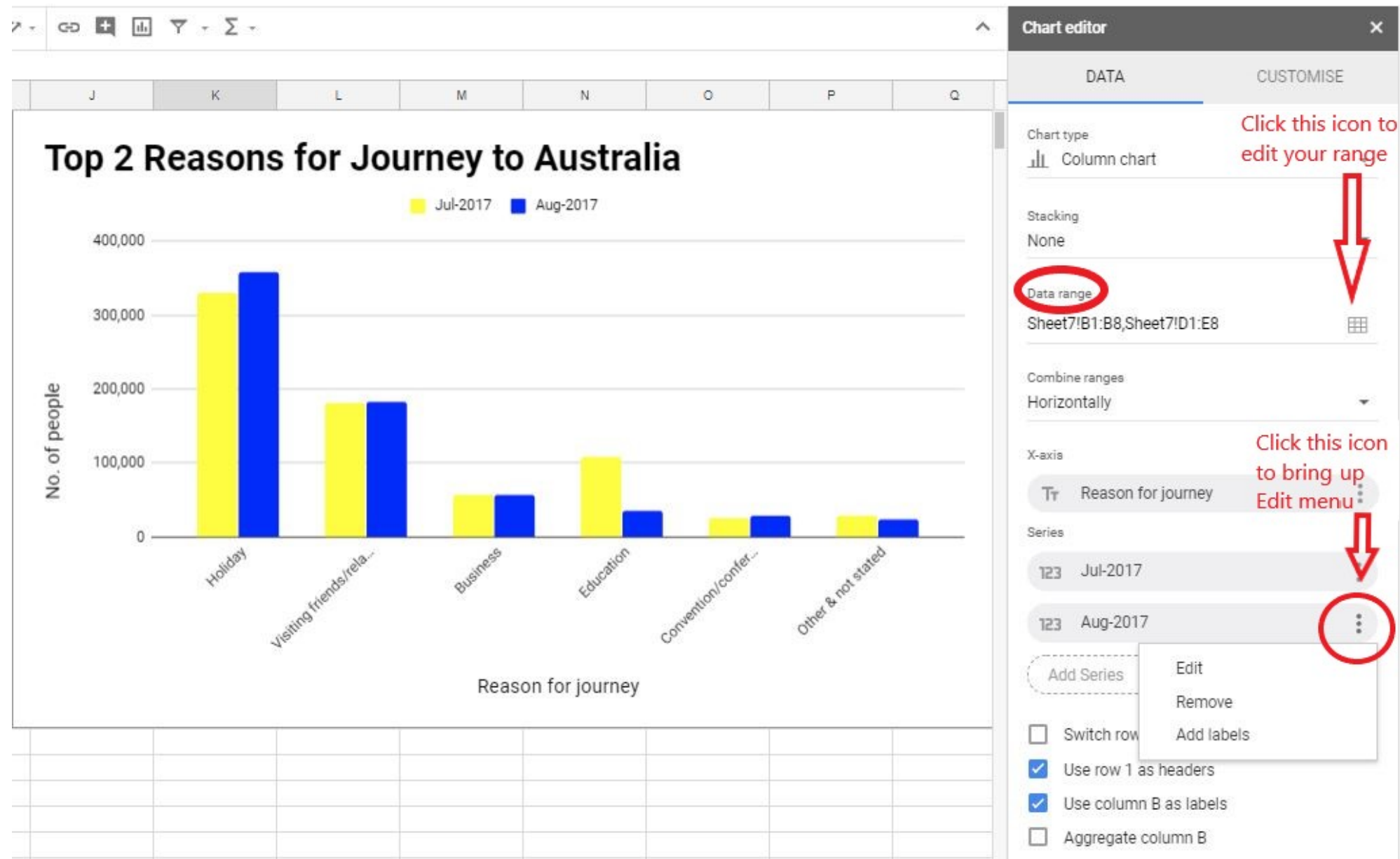
# Gridlines



# Do you need gridlines?



# Changing the plot



# Let's practice!

DATA VISUALIZATION IN SPREADSHEETS

# Named ranges

DATA VISUALIZATION IN SPREADSHEETS



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# What is a named range?

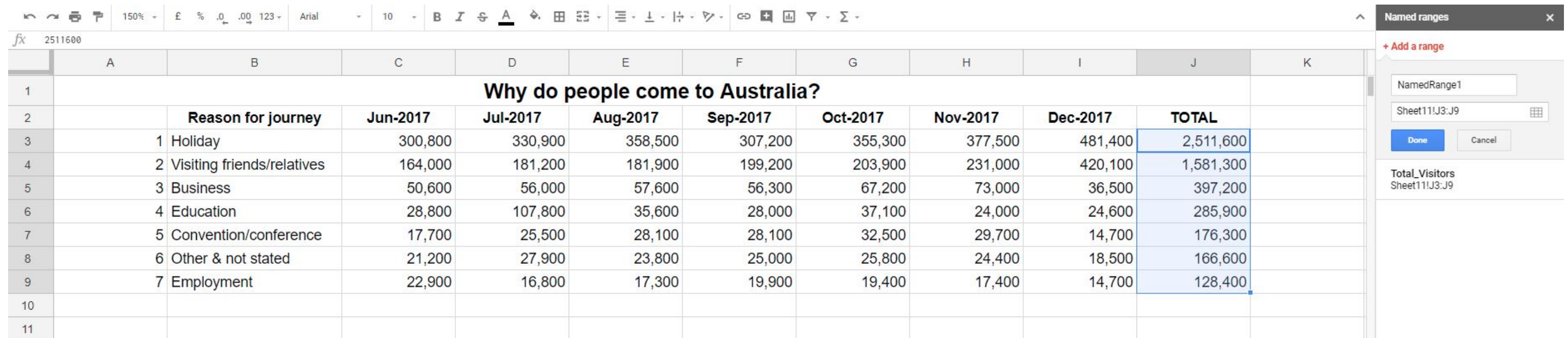
- One cell, a range, constant value, or a formula with a given name
- User-friendly names for your cells
- Make formulas easier to read and understand
- Range reference can be changed globally in one place

fx =sum(Total_Visitors)			C	D	E	F	G	H	I	J	K
SUM(value1, [value2, ...])											
Example SUM(A2:A100, 101)											
Summary Returns the sum of a series of numbers and/or cells.											
value1 The first number or range to add together.											
value2... - [optional] repeatable Additional numbers or ranges to add to 'value1'.											
<a href="#">Learn more about SUM</a>											
		</									



# Selecting data for the named range

- Highlight the range, go to the toolbar, select Data, select Named ranges
- Replace default, "NamedRange1", with a meaningful name
- Remember, Named ranges do not like spaces



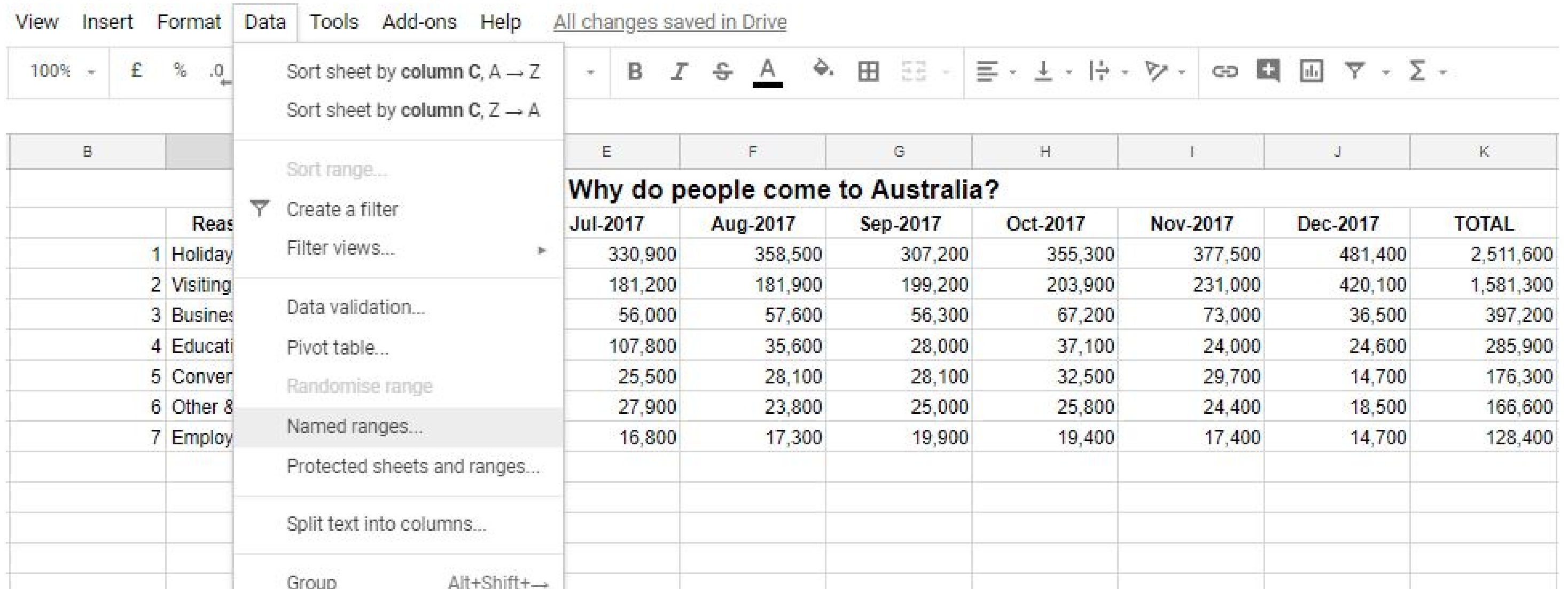
The screenshot shows a spreadsheet with a table titled "Why do people come to Australia?". The table has columns for months from June to December 2017, and a "TOTAL" column. The "TOTAL" column is highlighted in blue. A "Named ranges" dialog box is open on the right, showing the default name "NamedRange1" and the range "Sheet11!J3:J9". The dialog box also includes a "Done" button and a "Cancel" button. Below the dialog box, the text "Total\_Visitors Sheet11!J3:J9" is visible.

	A	B	C	D	E	F	G	H	I	J	K
1	Why do people come to Australia?										
2		Reason for journey	Jun-2017	Jul-2017	Aug-2017	Sep-2017	Oct-2017	Nov-2017	Dec-2017	TOTAL	
3	1	Holiday	300,800	330,900	358,500	307,200	355,300	377,500	481,400	2,511,600	
4	2	Visiting friends/relatives	164,000	181,200	181,900	199,200	203,900	231,000	420,100	1,581,300	
5	3	Business	50,600	56,000	57,600	56,300	67,200	73,000	36,500	397,200	
6	4	Education	28,800	107,800	35,600	28,000	37,100	24,000	24,600	285,900	
7	5	Convention/conference	17,700	25,500	28,100	28,100	32,500	29,700	14,700	176,300	
8	6	Other & not stated	21,200	27,900	23,800	25,000	25,800	24,400	18,500	166,600	
9	7	Employment	22,900	16,800	17,300	19,900	19,400	17,400	14,700	128,400	
10											
11											



# Creating a named range with the toolbar

- Select Data, Named ranges, Add a range, name it
- Select the data for your range



The screenshot shows the Google Sheets interface. The 'Data' menu is open, and 'Named ranges...' is highlighted. The spreadsheet contains a table titled 'Why do people come to Australia?' with columns for months and a total. The 'Named ranges...' option is selected in the 'Data' menu.

	Jul-2017	Aug-2017	Sep-2017	Oct-2017	Nov-2017	Dec-2017	TOTAL
1 Holiday	330,900	358,500	307,200	355,300	377,500	481,400	2,511,600
2 Visiting	181,200	181,900	199,200	203,900	231,000	420,100	1,581,300
3 Business	56,000	57,600	56,300	67,200	73,000	36,500	397,200
4 Education	107,800	35,600	28,000	37,100	24,000	24,600	285,900
5 Conversion	25,500	28,100	28,100	32,500	29,700	14,700	176,300
6 Other & Retirement	27,900	23,800	25,000	25,800	24,400	18,500	166,600
7 Employment	16,800	17,300	19,900	19,400	17,400	14,700	128,400

# Editing your named ranges

- Go to Sheets, Data, Named range to see all Named ranges in your workbook
- To change the cell range, select it by clicking the grid to the right
- Less prone to error if you have a visual of your range

Why do people come to Australia?									
	Reason for journey	Jun-2017	Jul-2017	Aug-2017	Sep-2017	Oct-2017	Nov-2017	Dec-2017	TOTAL
1	Holiday	300,800	330,900	358,500	307,200	355,300	377,500	481,400	2,511,600
2	Visiting friends/relatives	164,000	181,200	181,900	199,200	203,900	231,000	420,100	1,581,300
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6	Other & not stated	21,200	27,900	23,800	25,000	25,800	24,400	18,500	166,600
7	Employment	22,900	16,800	17,300	19,900	19,400	17,400	14,700	128,400

# Other Common Named Ranges

fx

=Income-Expenditure

	A	B	C	D	E	F
1						
2				Income	Expenditure	
3			Week 1	\$1,000.50	\$780.70	
4			Week 2	\$2,500.30	\$780.70	
5			Week 3	\$1,780.56	\$780.70	
6			Week 4	\$3,145.00	\$780.70	
7			TOTAL	\$8,426.36	\$3,122.80	
8				NET	\$5,303.56	
9						
10		In this example D7 is named Income and E7 is named Expenditure				

# Let's practice!

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