

# Histograms

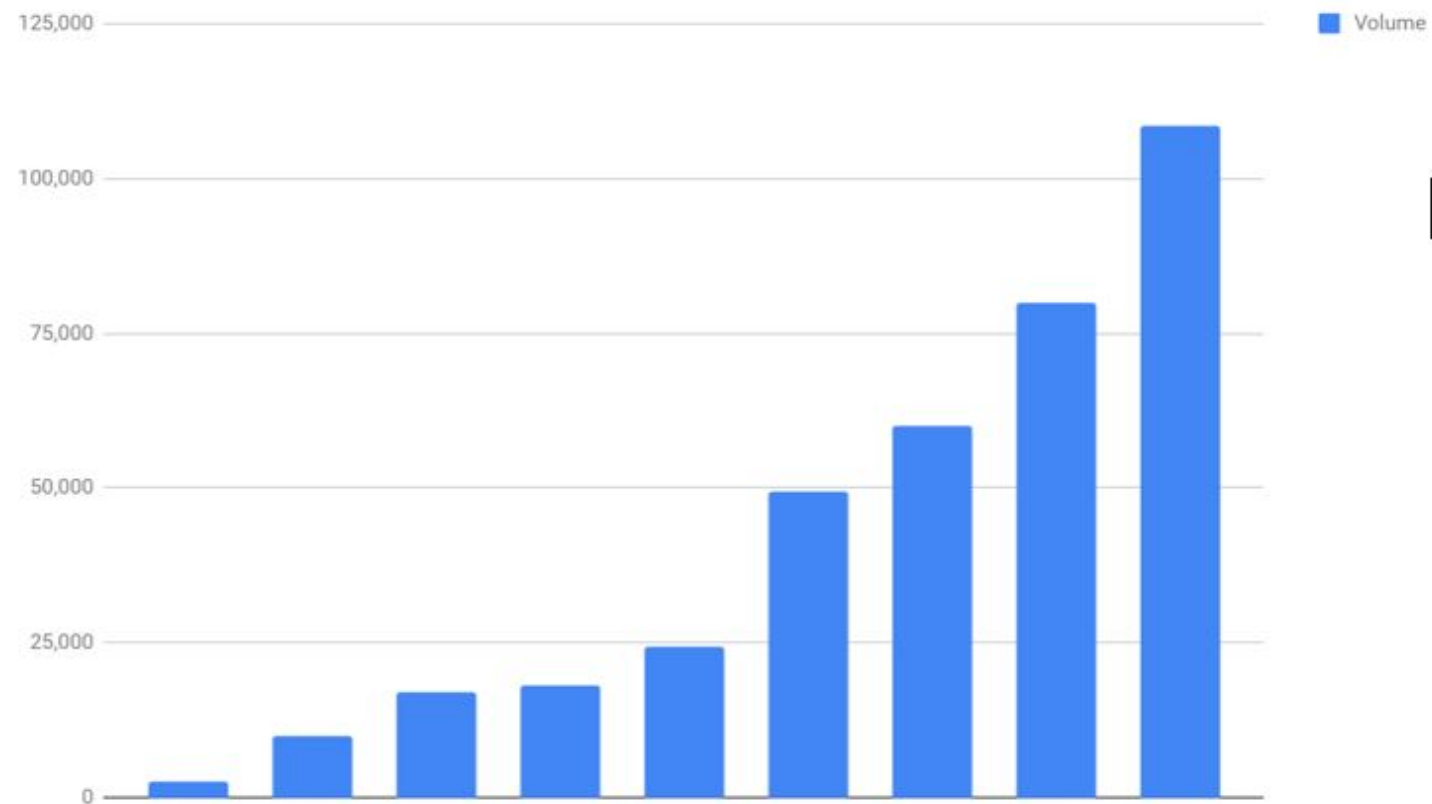
DATA VISUALIZATION IN SPREADSHEETS



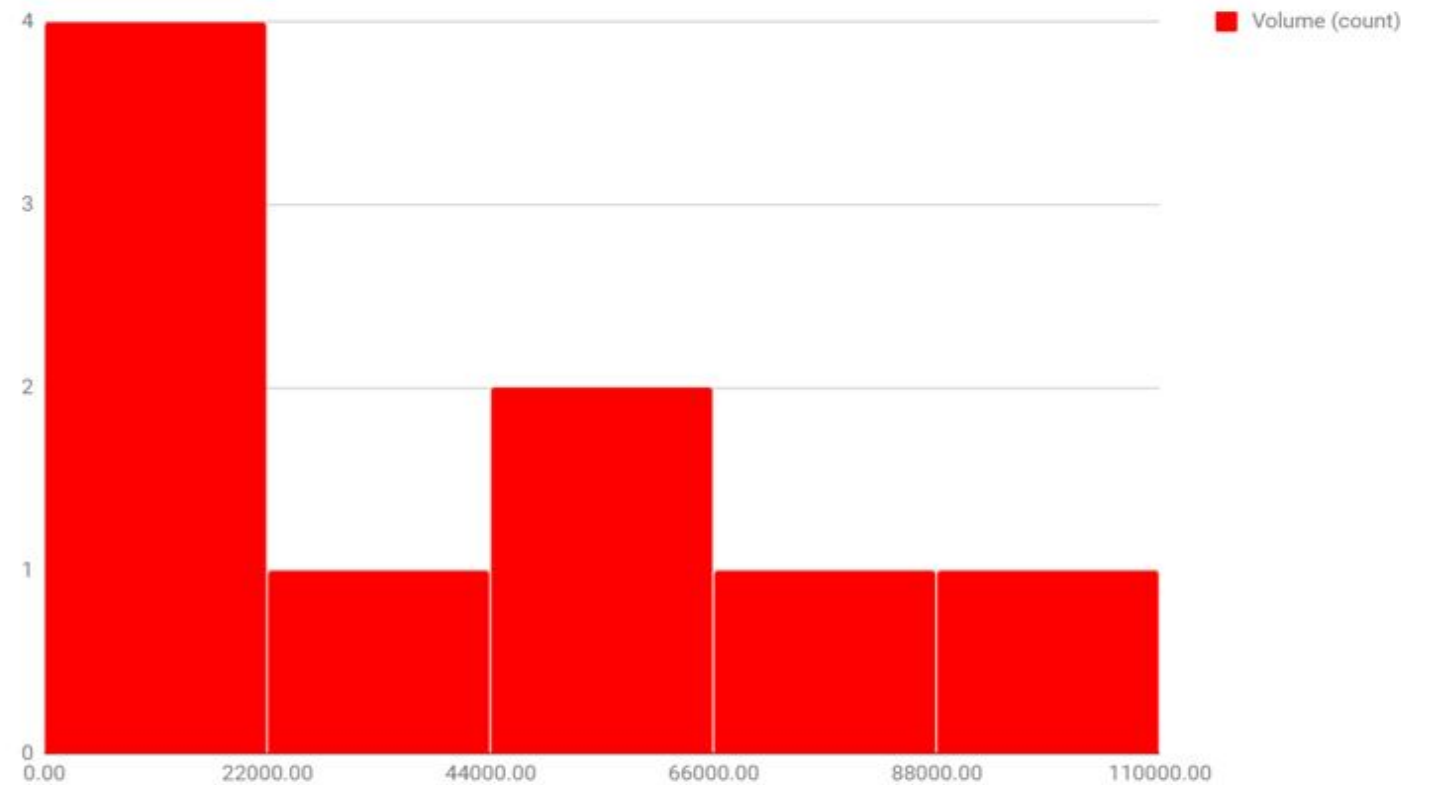
**Raina Hawley**

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Applications

# Column chart vs histogram

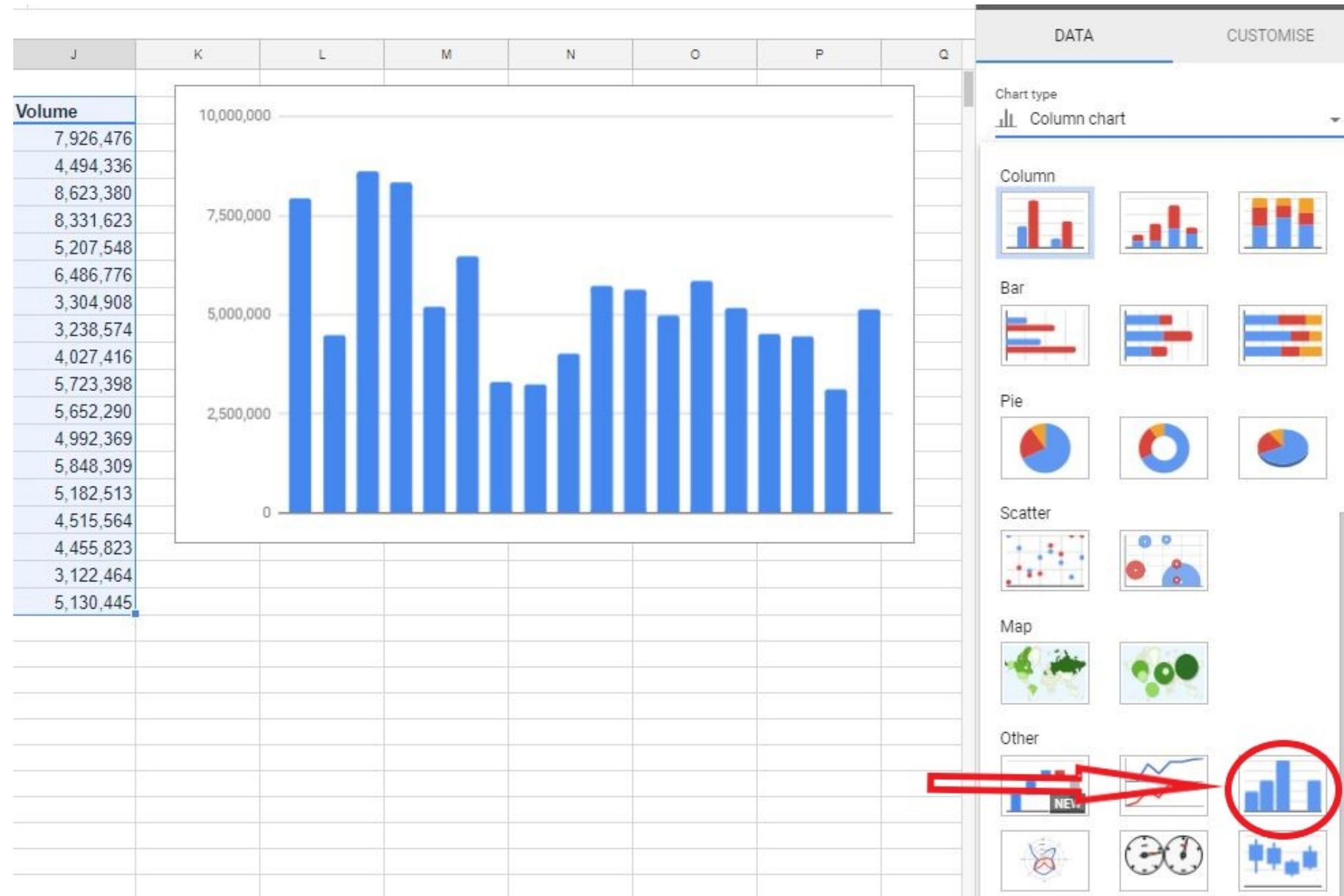


Column Chart

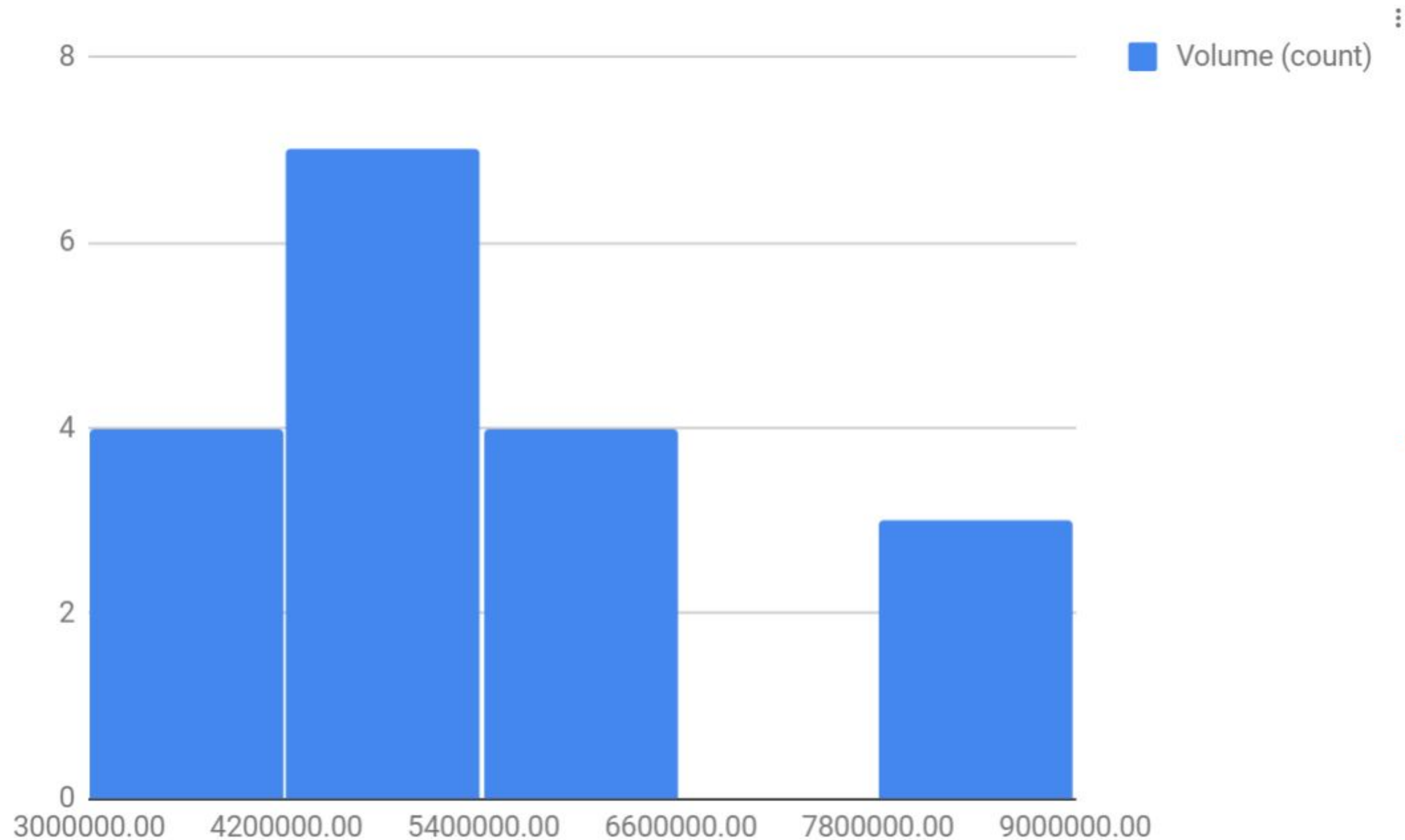


Histogram Chart

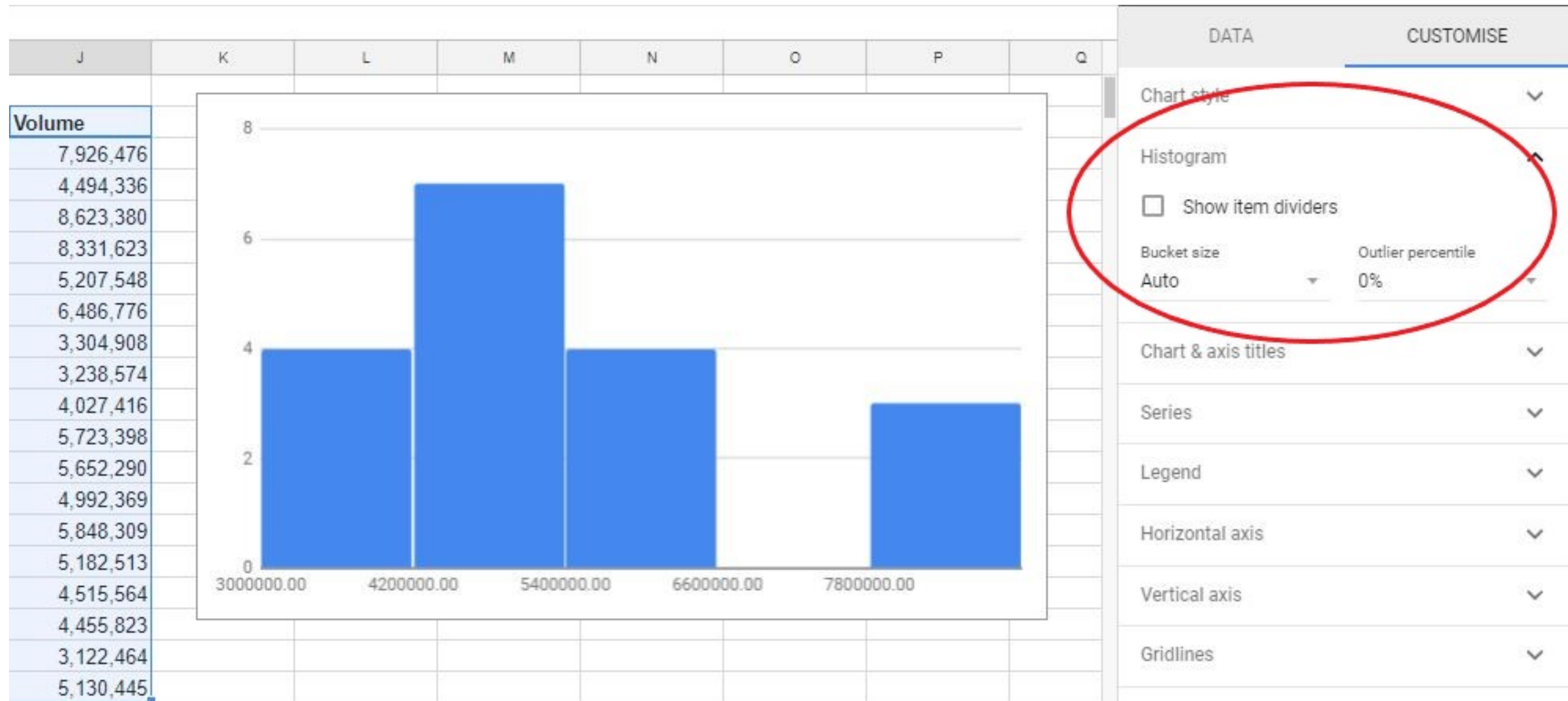
# Changing to a histogram chart



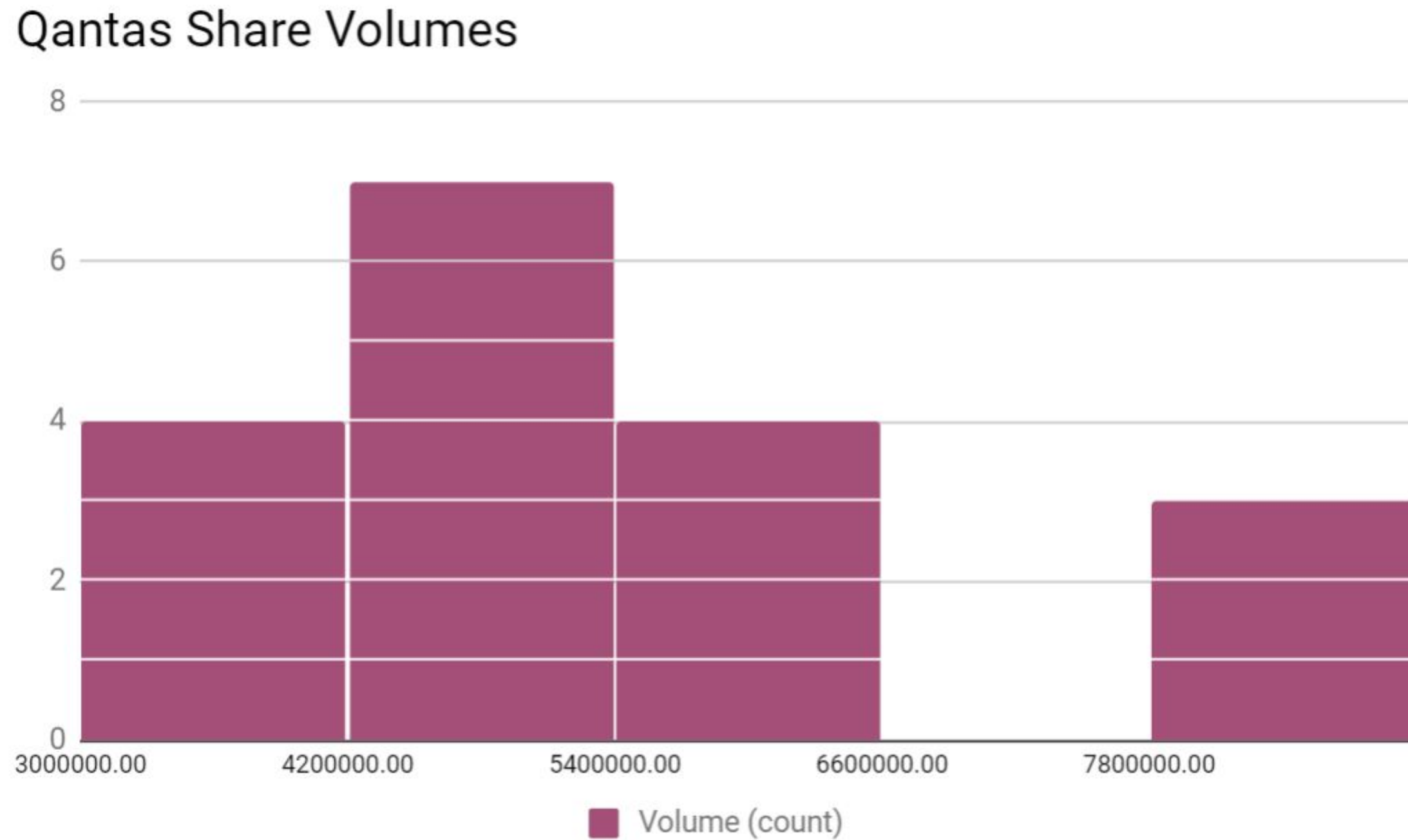
# Frequency distribution



# Formatting your histogram



# Whats the drawback?



# Practice time!

DATA VISUALIZATION IN SPREADSHEETS

# Candlestick charts

DATA VISUALIZATION IN SPREADSHEETS

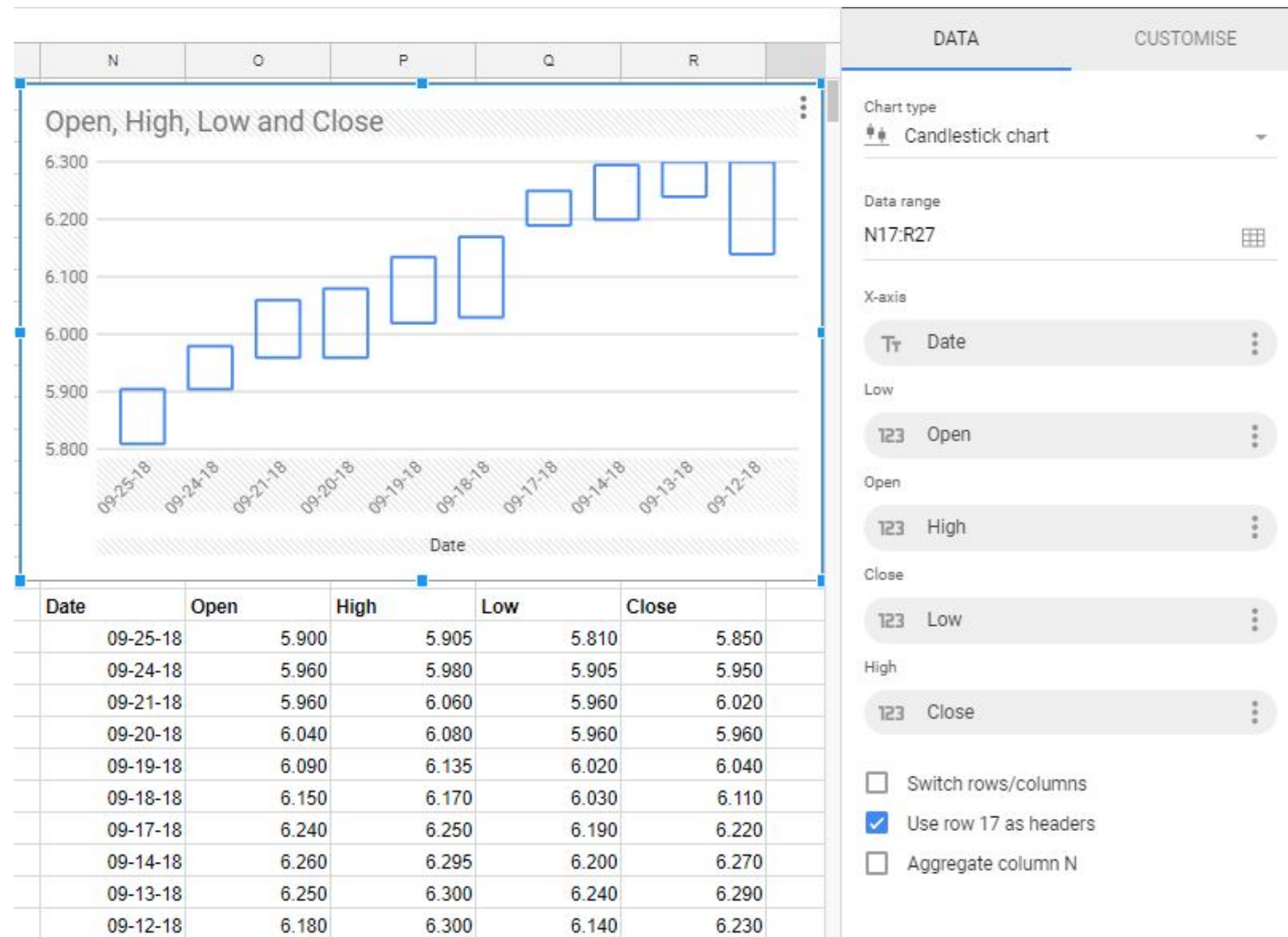


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# Creating a candlestick



- Display price information
  - Show trends
  - Predict future behavior
  - Display day to day market movement
- Optimize your dataset first
  - Named ranges
  - Validations
  - VLOOKUPs

# Formatting dates as plain text

The screenshot shows a Google Sheets interface with a spreadsheet titled 'Trade History'. The spreadsheet has two columns: 'Date' and 'Open'. The 'Date' column contains dates from 09-25-18 down to 08-30-18. The 'Open' column contains numerical values. The 'Format' menu is open, and the 'Number' submenu is selected. In the 'Number' submenu, the 'Plain text' option is checked, indicating that the selected dates will be formatted as plain text.

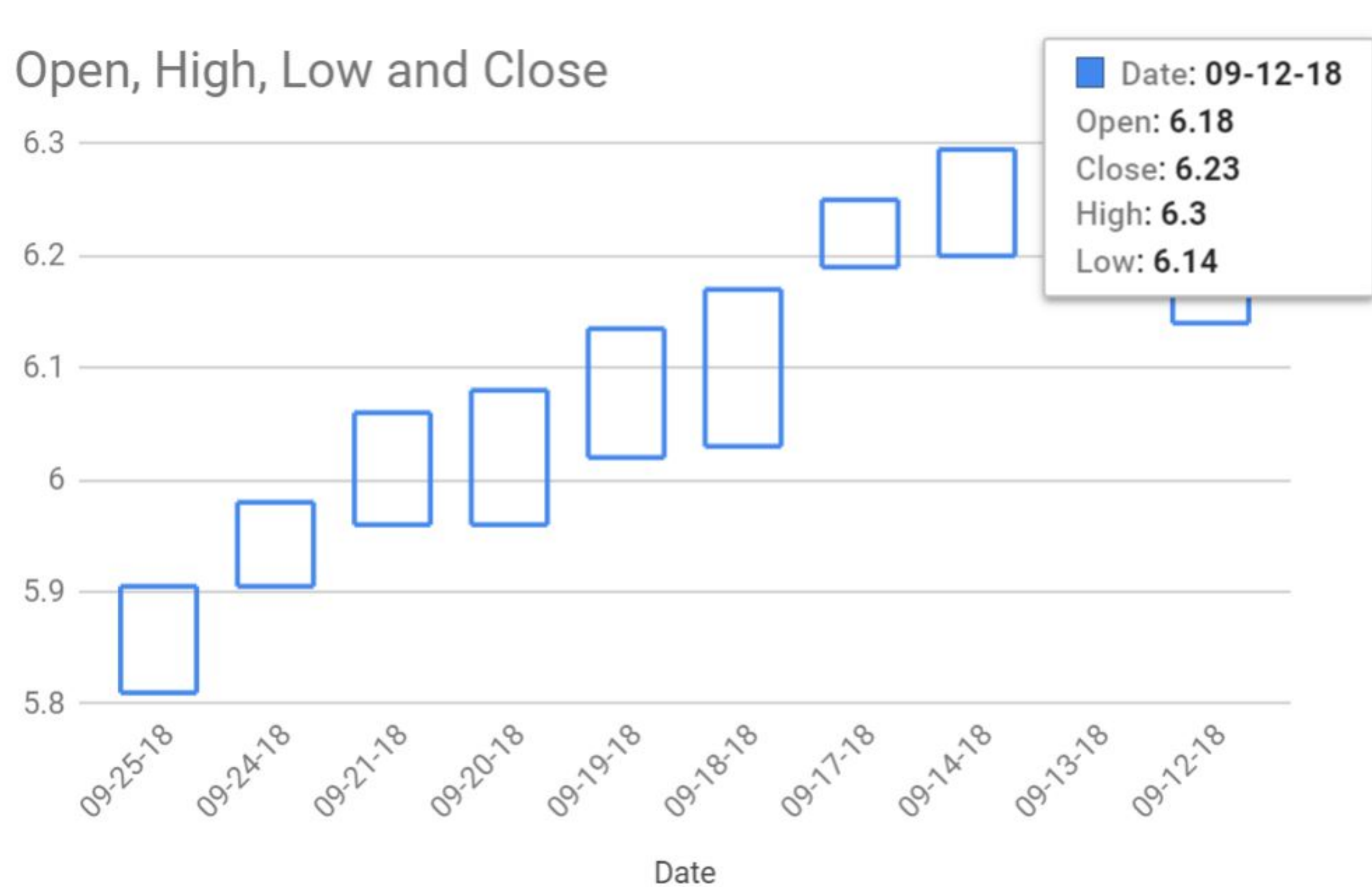
Date	Open
09-25-18	5.9
09-24-18	5.96
09-21-18	5.96
09-20-18	6.04
09-19-18	6.09
09-18-18	6.15
09-17-18	6.24
09-14-18	6.26
09-13-18	6.25
09-12-18	6.18
09-11-18	6.2
09-10-18	6.15
09-07-18	6.08
09-06-18	6.2
09-05-18	6.27
09-04-18	6.39
09-03-18	6.45
08-31-18	6.48
08-30-18	6.58

# Plain text using a formula

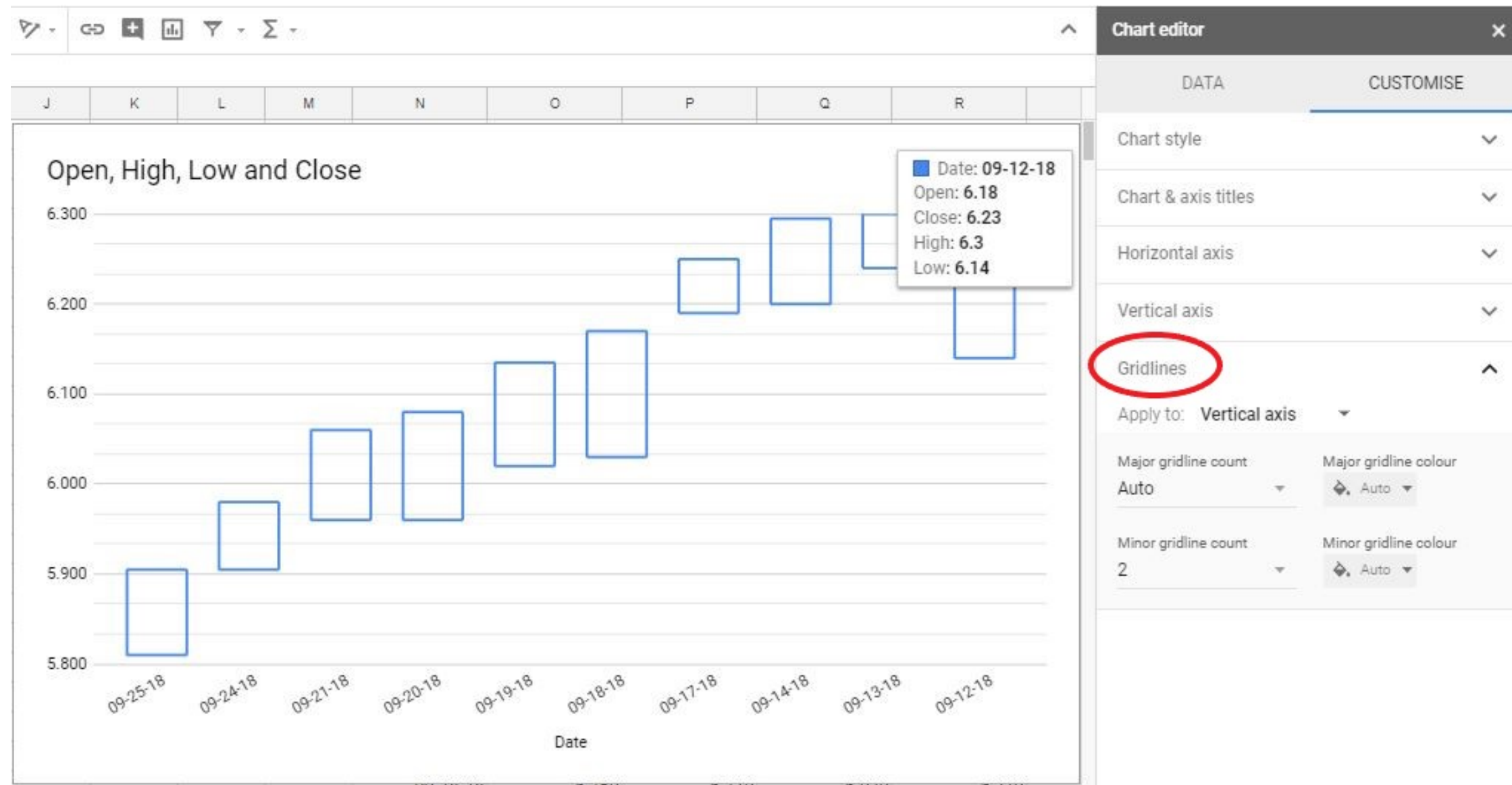
=text(A3,"mm-dd-yy")

A	B	C	D	E	F
Trade History					
Date	Plain Dates	Open	High	Low	Close
09-25-18 ▾	09-25-18	5.900	5.905	5.810	5.850

# Viewing the detail



# Formatting your candlestick chart



# Let's do it!

DATA VISUALIZATION IN SPREADSHEETS

# Scatter charts

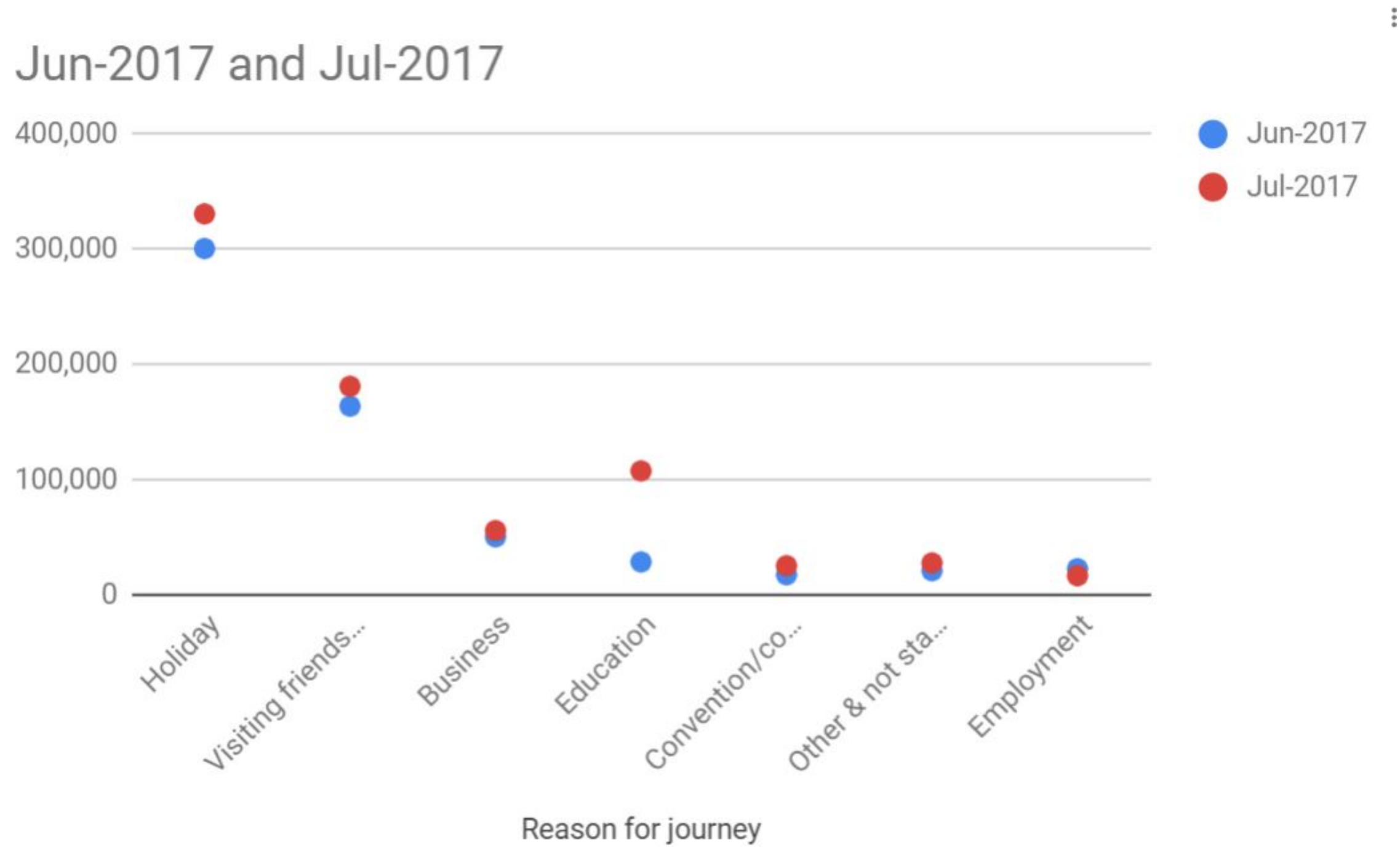
DATA VISUALIZATION IN SPREADSHEETS



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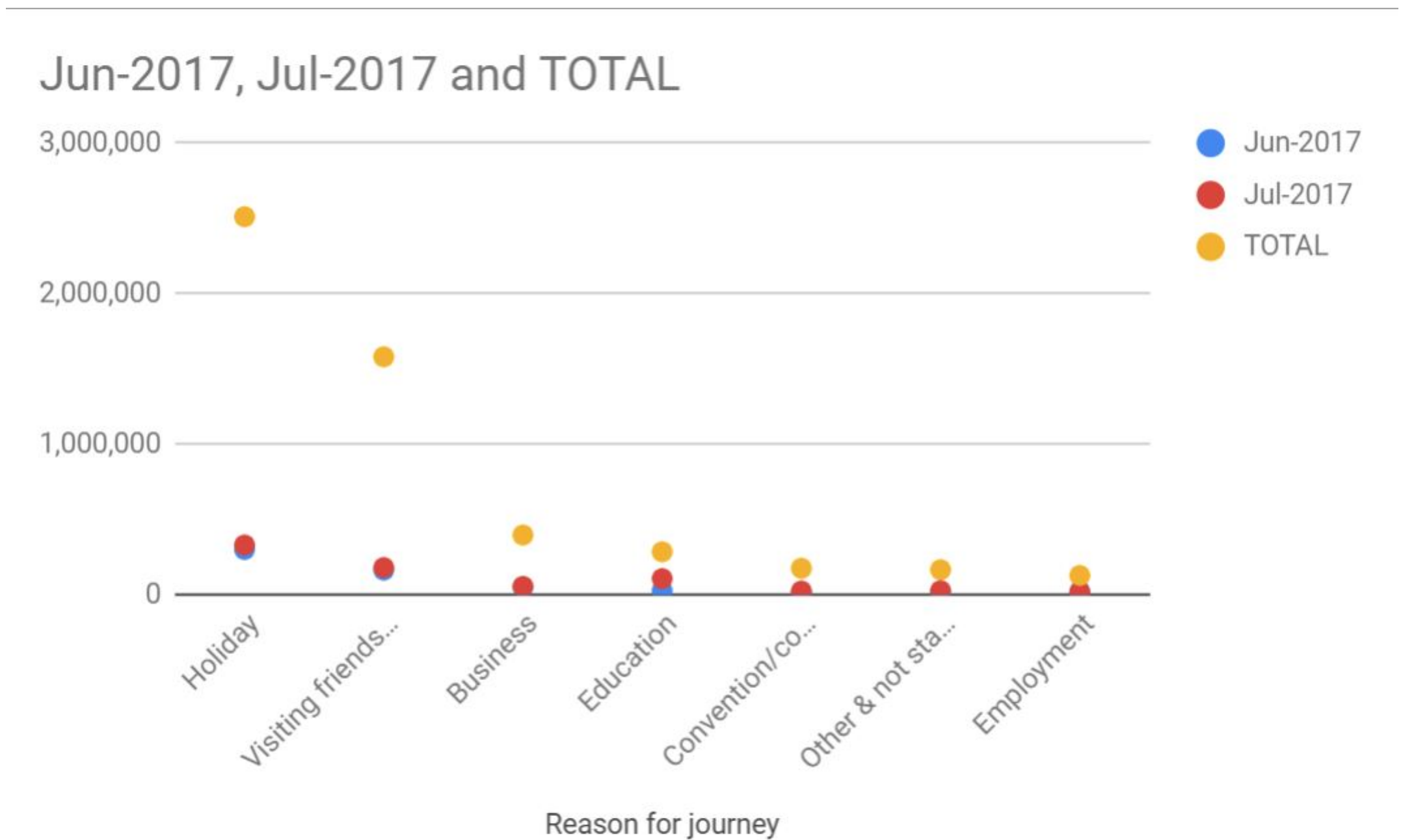
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# Creating the scatter chart

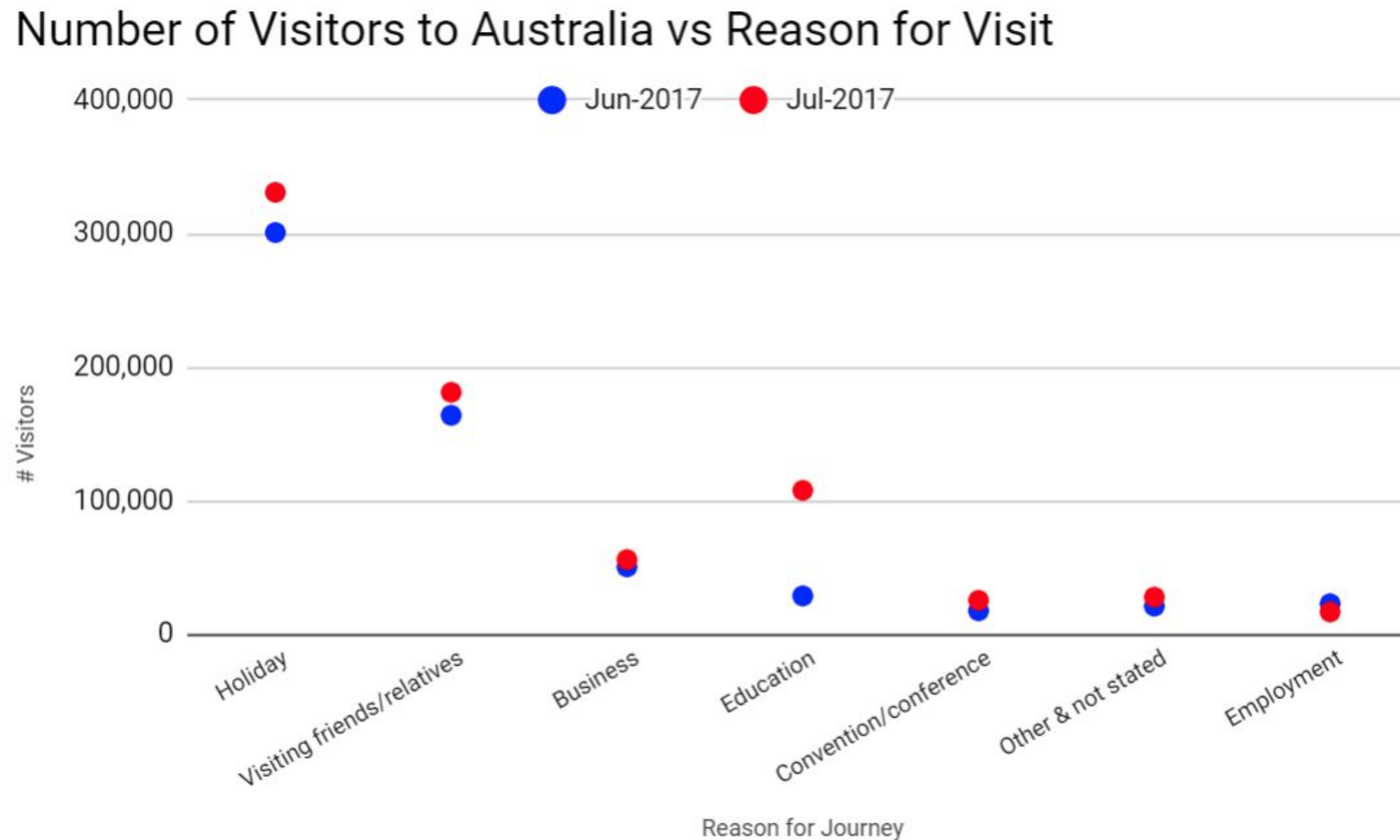




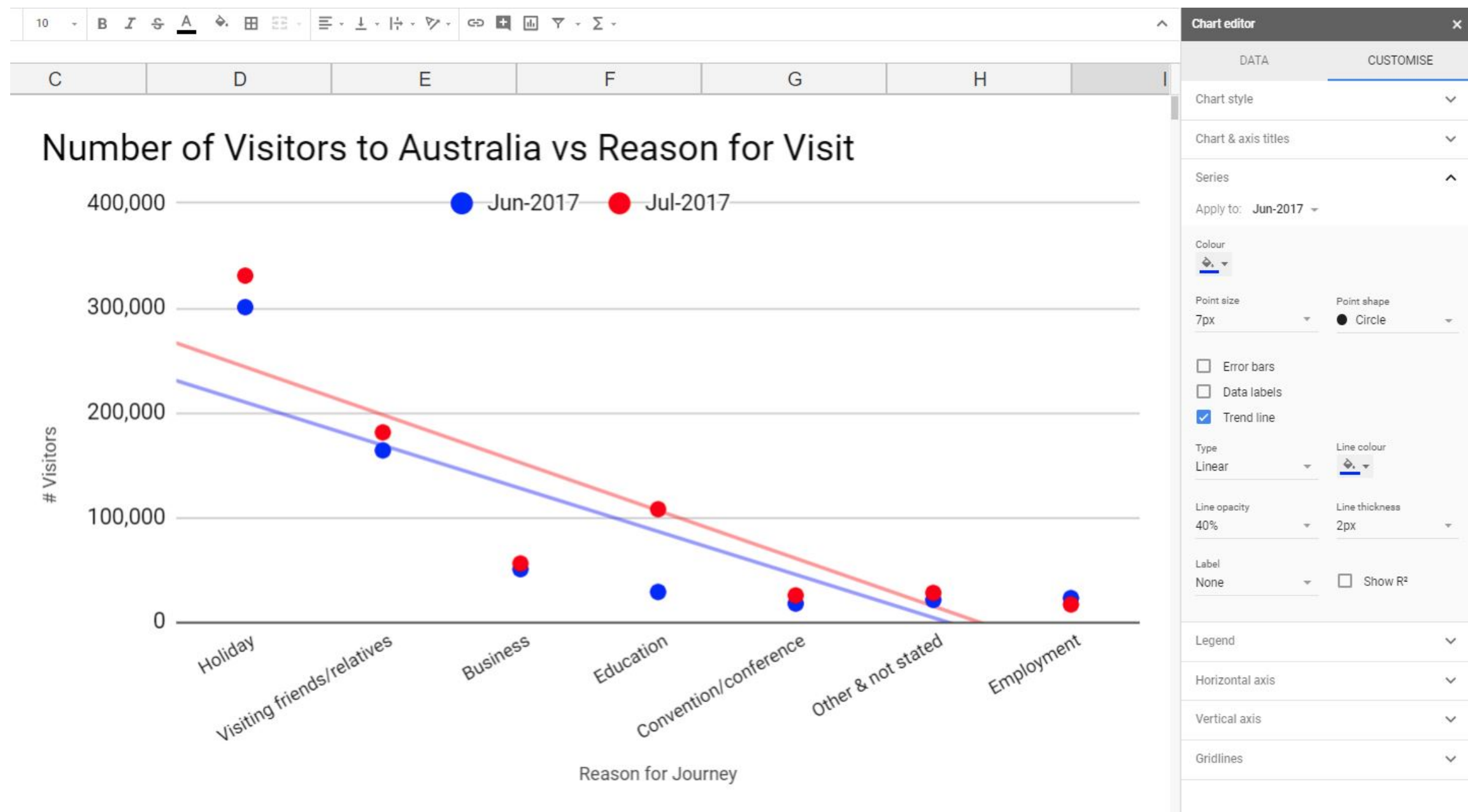
# Scatter chart with 3 series



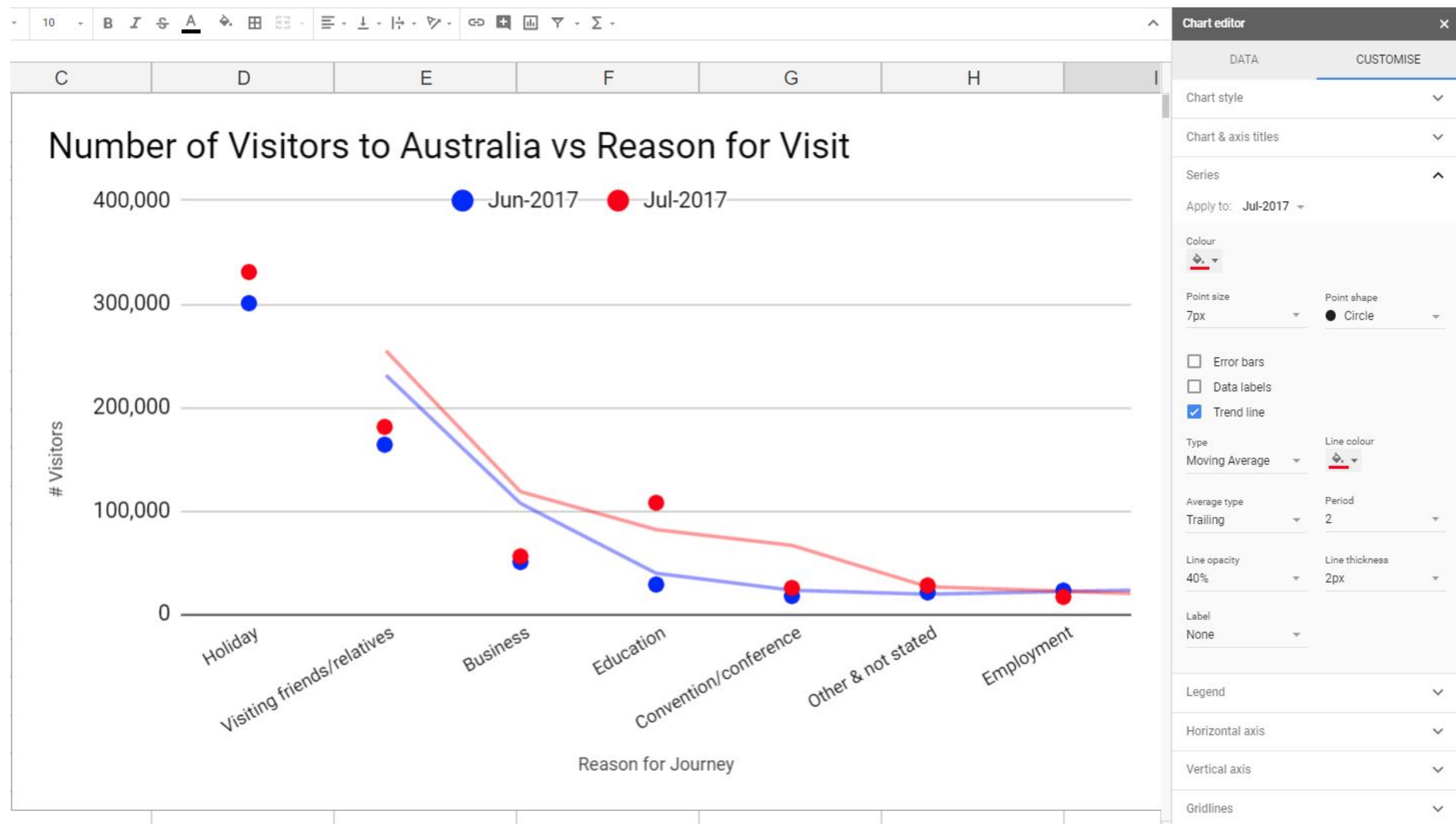
# Formatting your scatter chart



# Trendlines



# Other trendlines



# Practice time!

DATA VISUALIZATION IN SPREADSHEETS

# Sparkline charts

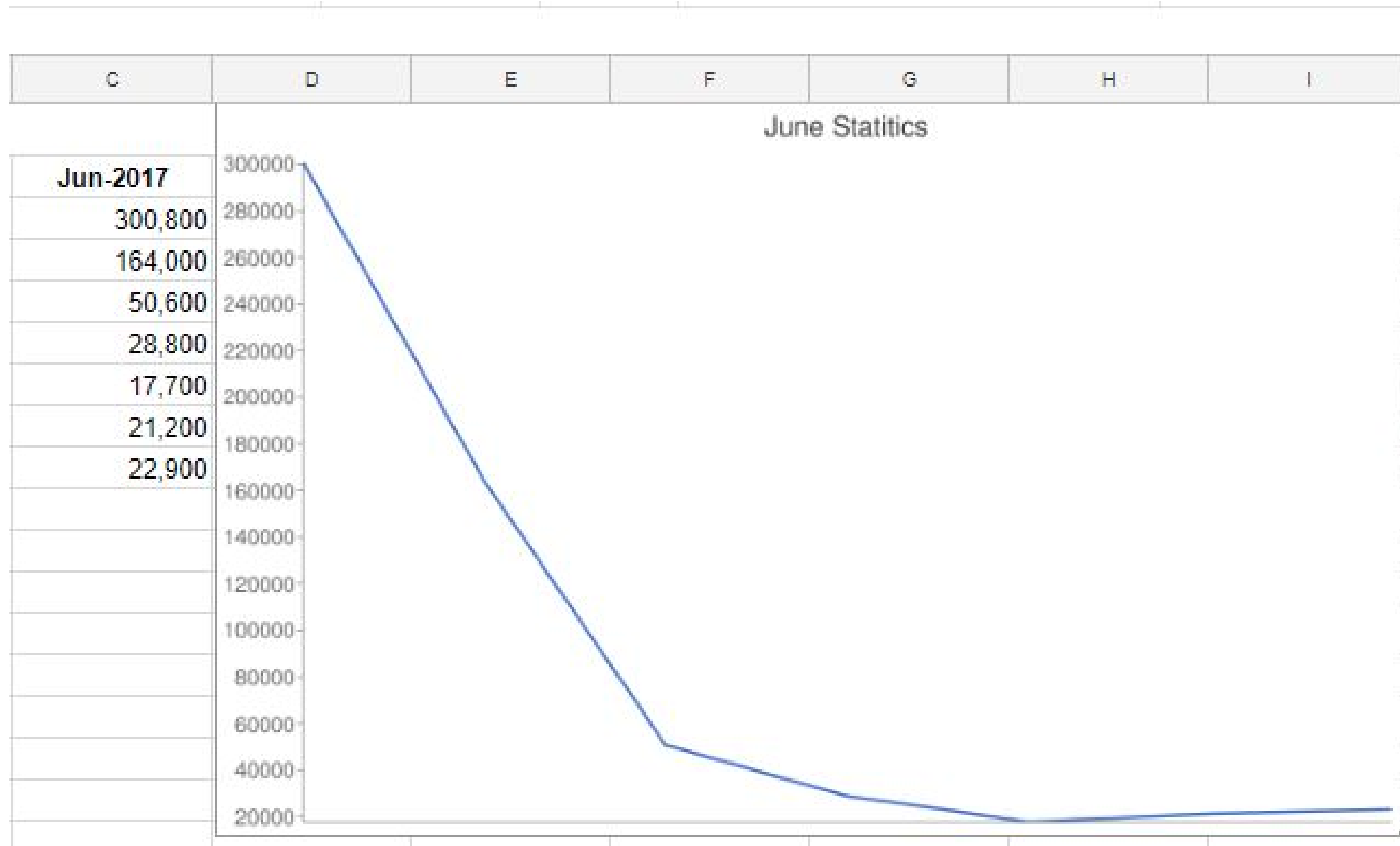
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# Creating the sparkline



# Sparklines in your dashboard

- Give a quick snapshot
- Work better in a single cell

Reason for journey	Jun-2017
Holiday	300,800
Visiting friends/relatives	164,000
Business	50,600
Education	28,800
Convention/conference	17,700
Other & not stated	21,200
Employment	22,900
	

## Types of sparklines

- Line
- Column
- Bar
- Winloss



# Line sparklines

`=sparkline(C3:C9)`

SPARKLINE(data, [options])

Example  
SPARKLINE(A2:E2, {"charttype", "bar"; "max", 50})

Summary  
Creates a miniature chart contained within a single cell.

data  
The range or array containing the data to plot.

options - [optional]  
A range or array of optional settings and associated values used to customise the chart.

[Learn more about SPARKLINE](#)


	Why
2017	
	330,900
	181,200
	56,000
	107,800
	25,500
	27,900
	16,800

Employment

`=sparkline(C3:C9)`

# Line chart within a cell

=SPARKLINE(C3:C9)

A	B	C	D	E	F	G
Why do people come to Australia?						
	Reason for journey	Jun-2017	Jul-2017	Aug-2017	Sep-2017	Oct-2017
1	Holiday	300,800	330,900	358,500	307,200	355,300
2	Visiting friends/relatives	164,000	181,200	181,900	199,200	203,900
3	Business	50,600	56,000	57,600	56,300	67,200
4	Education	28,800	107,800	35,600	28,000	37,100
5	Convention/conference	17,700	25,500	28,100	28,100	32,500
6	Other & not stated	21,200	27,900	23,800	25,000	25,800
7	Employment	22,900	16,800	17,300	19,900	19,400
						

# Changing color

```
=SPARKLINE(H3:H9,{"color","red"})
```

SPARKLINE(data, [options])

Example  
SPARKLINE(A2:E2,  
{"charttype","bar";"max",50})

Summary  
Creates a miniature chart contained within a single cell.

data  
The range or array containing the data to plot.

options - [optional]  
A range or array of optional settings and associated values  
used to customise the chart.

[Learn more about SPARKLINE](#)

Why do people leave?	
2017	Aug 2017
330,900	
181,200	
56,000	
107,800	
25,500	
27,900	
16,800	

Employment

22,000

=SPARKLINE(H3:H9,{"color","red"})

# Red sparklines

```
=SPARKLINE(C3:C9,{"color","red"})
```

A	B	C	D	E	F	G
Why do people come to Australia?						
	Reason for journey	Jun-2017	Jul-2017	Aug-2017	Sep-2017	Oct-2017
1	Holiday	300,800	330,900	358,500	307,200	355,300
2	Visiting friends/relatives	164,000	181,200	181,900	199,200	203,900
3	Business	50,600	56,000	57,600	56,300	67,200
4	Education	28,800	107,800	35,600	28,000	37,100
5	Convention/conference	17,700	25,500	28,100	28,100	32,500
6	Other & not stated	21,200	27,900	23,800	25,000	25,800
7	Employment	22,900	16,800	17,300	19,900	19,400

# Color and line width

**=SPARKLINE(E3:E9,{"color","red";"linewidth",3})**

**SPARKLINE**(data, [options])

**Example**  
**SPARKLINE**(A2:E2,  
{"charttype","bar";"max",50})

**Summary**  
Creates a miniature chart contained within a single cell.

**data**  
The range or array containing the data to plot.

**options - [optional]**  
A range or array of optional settings and associated values used to customise the chart.

[Learn more about SPARKLINE](#)


Why do people come to work?		
2017	Aug-2017	September
330,900	358,500	
181,200	181,900	
56,000	57,600	
107,800	35,600	
25,500	28,100	
27,900	23,800	
16,800	17,300	

Employment 22,500

**=SPARKLINE(E3:E9,{"color","red";"linewidth",3})**
















# Changing the width of your sparkline

```
=SPARKLINE(C3:C9,{"color","red";"linewidth",3})
```

A	B	C	D	E	F	G
Why do people come to Australia?						
	Reason for journey	Jun-2017	Jul-2017	Aug-2017	Sep-2017	Oct-2017
1	Holiday	300,800	330,900	358,500	307,200	355,300
2	Visiting friends/relatives	164,000	181,200	181,900	199,200	203,900
3	Business	50,600	56,000	57,600	56,300	67,200
4	Education	28,800	107,800	35,600	28,000	37,100
5	Convention/conference	17,700	25,500	28,100	28,100	32,500
6	Other & not stated	21,200	27,900	23,800	25,000	25,800
7	Employment	22,900	16,800	17,300	19,900	19,400
						

# Column sparklines

```
=SPARKLINE(C3:I3,{"charttype","column"})
```

A	B	C	D	E	F	G	H	I	J	K
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	
										

# Bar sparklines

```
=SPARKLINE(C3:I3,{"charttype","bar"})
```

A	B	C	D	E	F	G	H	I	J	K
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	



# Winloss sparklines

```
=SPARKLINE(C3:I3,{"charttype","winloss"})
```

A	B	C	D	E	F	G	H	I	J	K
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	

# Pretty cool, hey!

DATA VISUALIZATION IN SPREADSHEETS