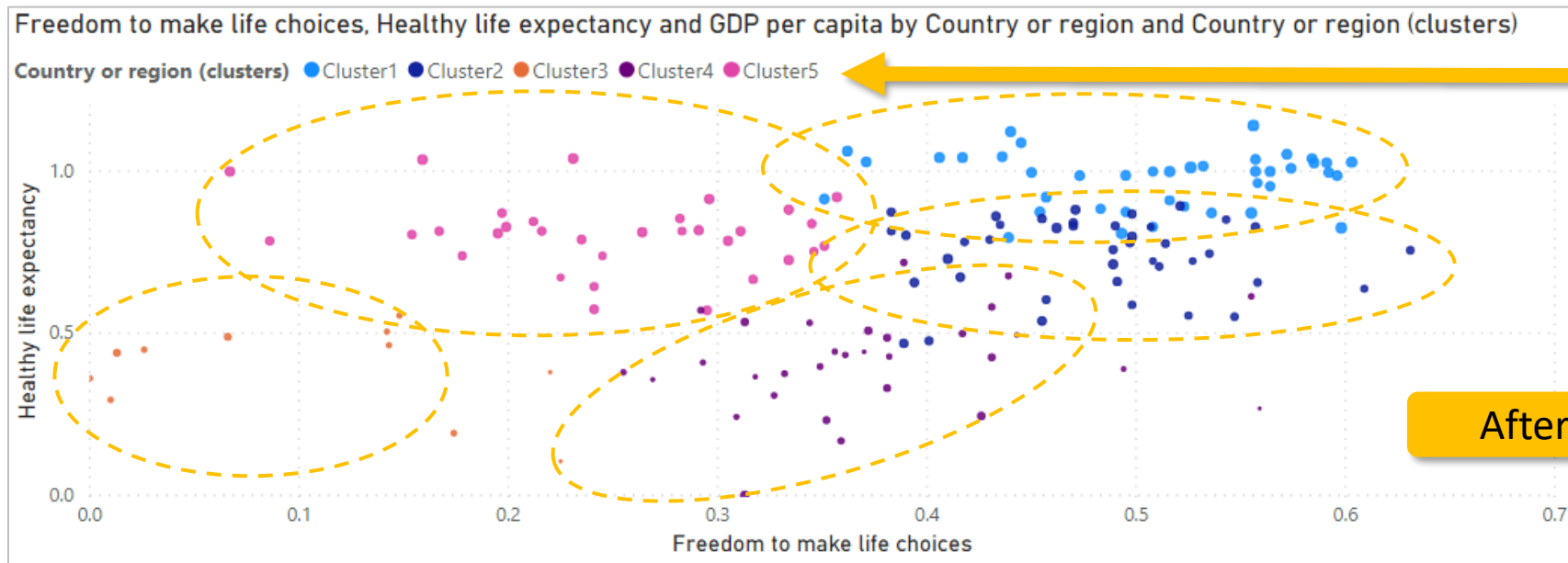
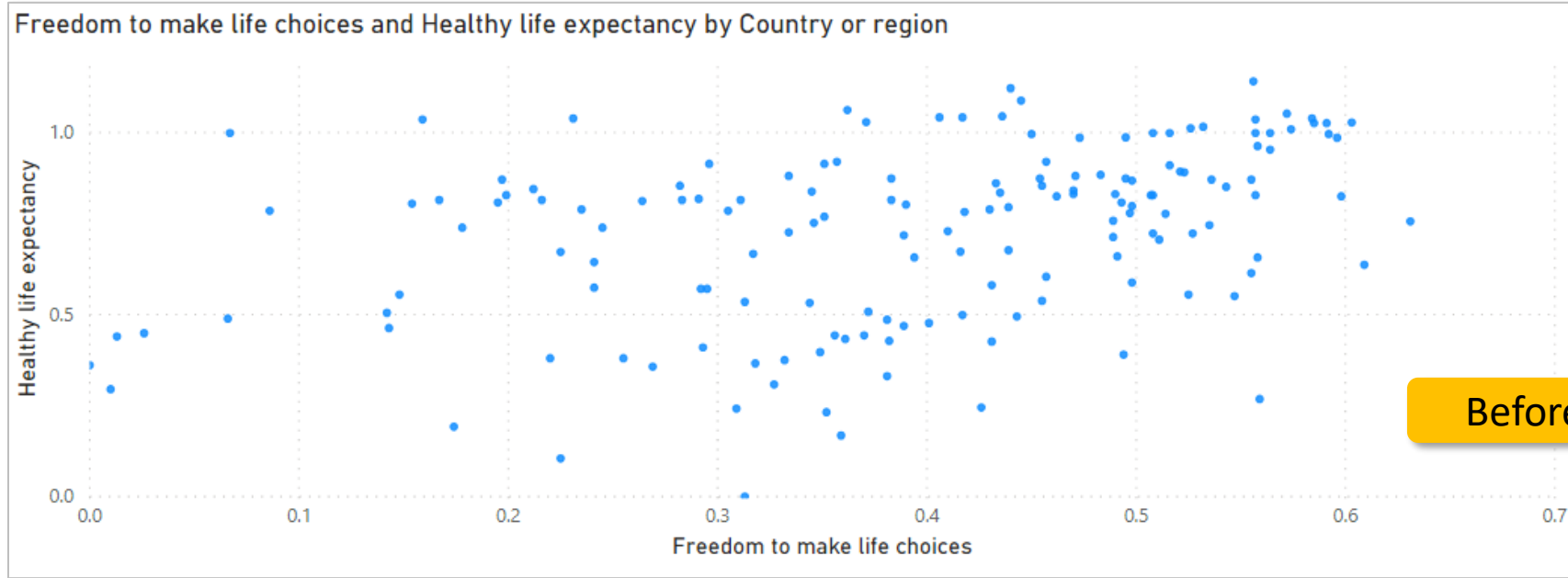


# Top 10 Power BI Visualization Tricks

# #01 | Scatter: Create Automatic Clustering in few seconds



1

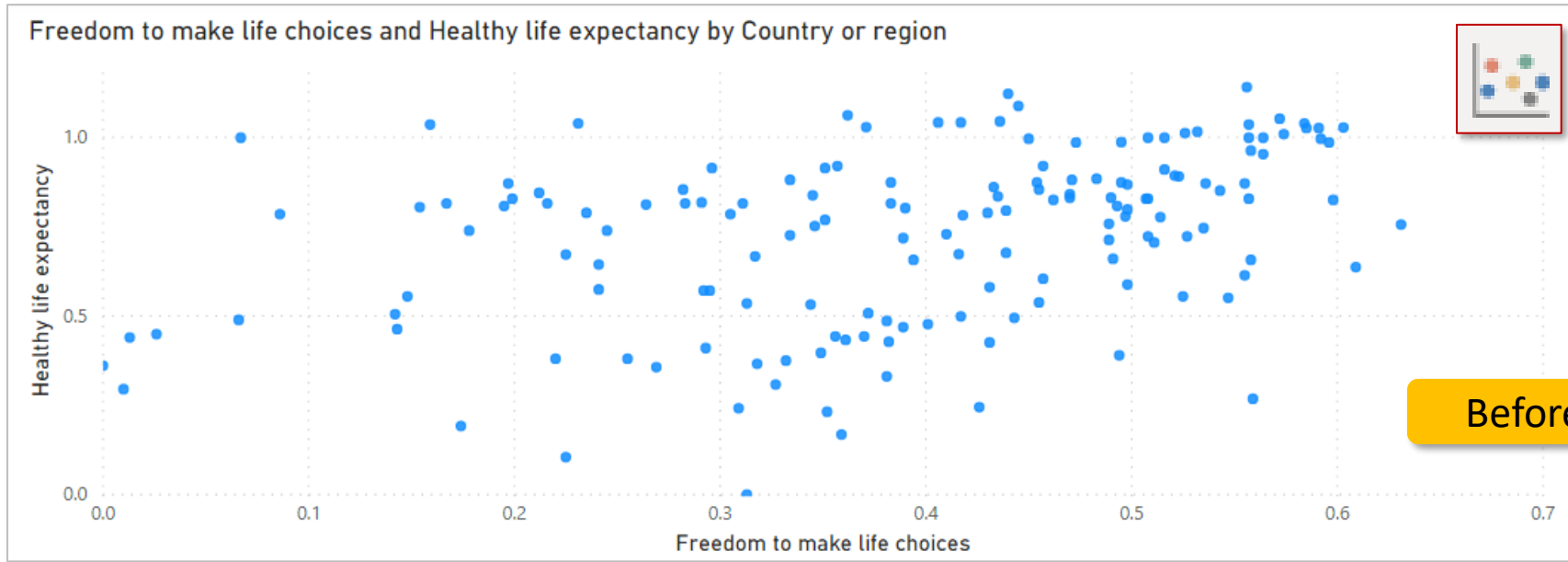
More options

Filter icon, Copy icon, More options icon

2

- Export data
- Show data
- Remove
- Automatically find clusters**
- Spotlight

# #02 | Scatter: Use Bubble Size to show an additional info layer



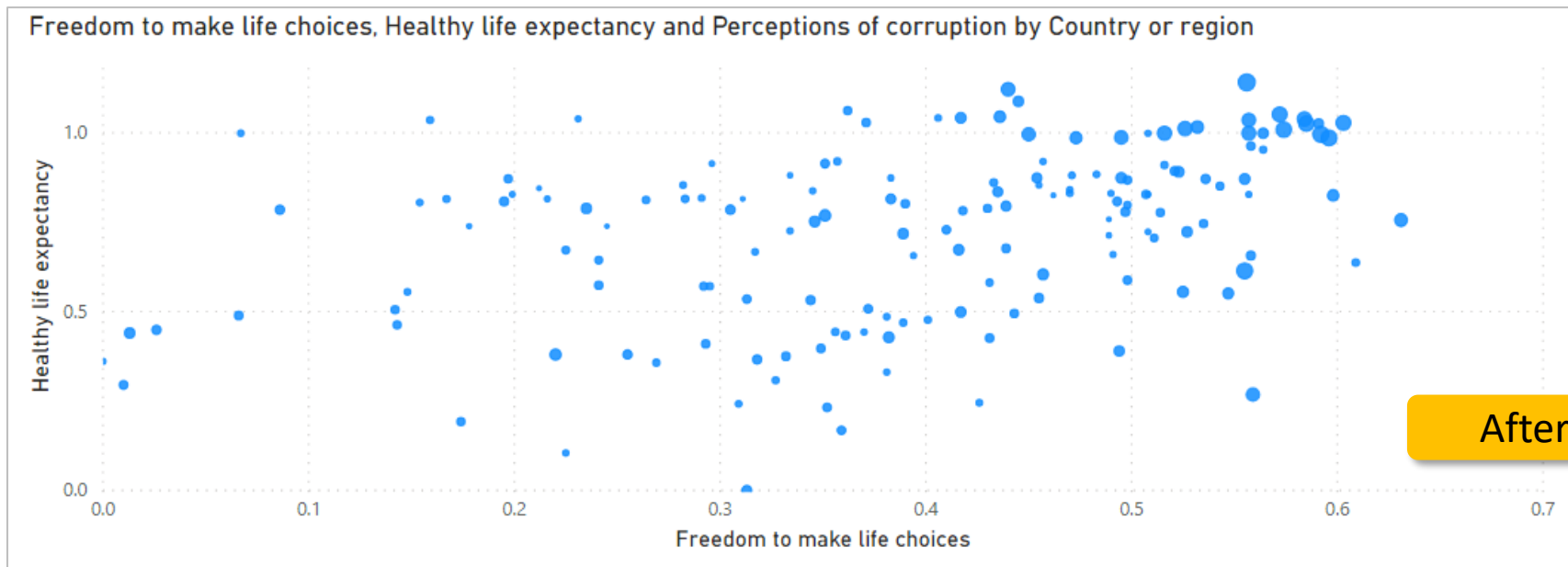
Before

1

X Axis: Freedom to make life ct

Y Axis: Healthy life expectancy

Size: GDP per capita



After

2

Search

Shapes

Size: -29

Marker shape: [circle]

# #03 | Table: Create automatic clusters with >2 variable

Country or region	Freedom to make life choices	GDP per capita	Healthy life expectancy	Social support
Afghanistan	0.00	0.35	0.36	0.52
Albania	0.38	0.95	0.87	0.85
Algeria	0.09	1.00	0.79	1.16
Argentina	0.47	1.09	0.88	1.43
Armenia	0.28	0.85	0.82	1.06
Australia	0.56	1.37	1.04	1.55
Austria	0.53	1.38	1.02	1.48
Azerbaijan	0.35	1.04	0.77	1.15
Bahrain	0.54	1.36	0.87	1.37
<b>Total</b>	<b>61.24</b>	<b>141.20</b>	<b>113.14</b>	<b>188.58</b>

>2 variables

Before

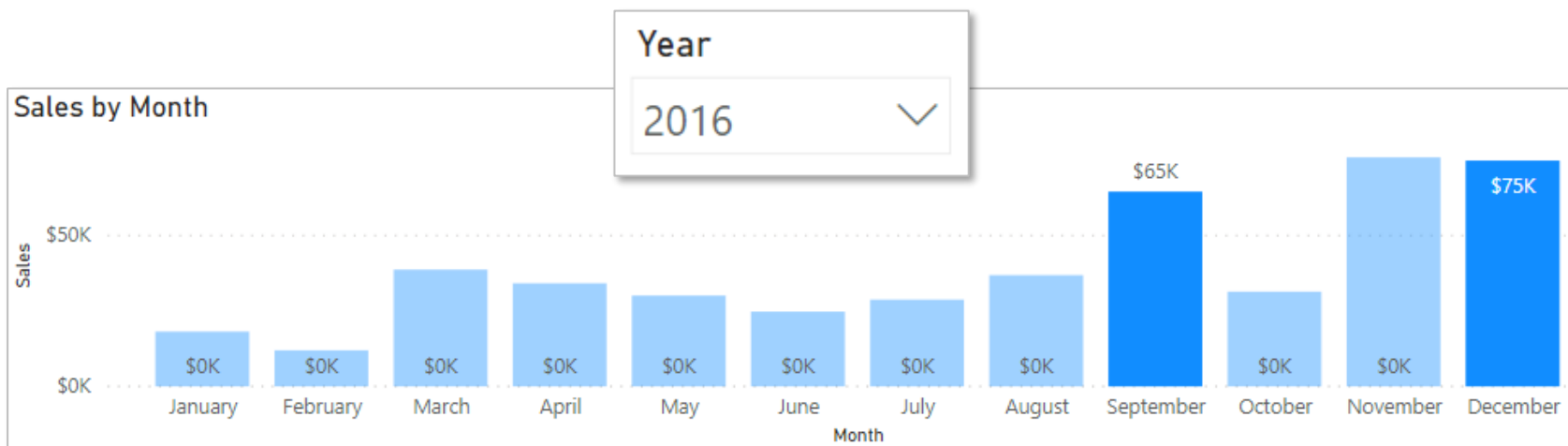
Country or region	Freedom to make life choices	GDP per capita	Healthy life expectancy	Social support	Country or region (clusters) 2
Afghanistan	0.00	0.35	0.36	0.52	Cluster3
Albania	0.38	0.95	0.87	0.85	Cluster2
Algeria	0.09	1.00	0.79	1.16	Cluster5
Argentina	0.47	1.09	0.88	1.43	Cluster1
Armenia	0.28	0.85	0.82	1.06	Cluster5
Australia	0.56	1.37	1.04	1.55	Cluster1
Austria	0.53	1.38	1.02	1.48	Cluster1
Azerbaijan	0.35	1.04	0.77	1.15	Cluster5
Bahrain	0.54	1.36	0.87	1.37	Cluster1
<b>Total</b>	<b>61.24</b>	<b>141.20</b>	<b>113.14</b>	<b>188.58</b>	

After

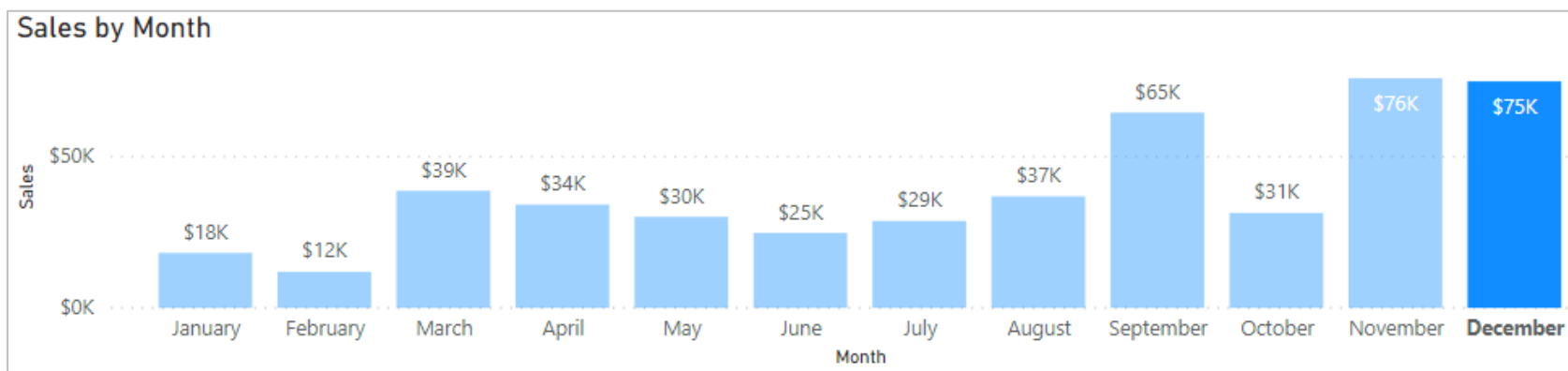
1 More options

- 2
- Export data
  - Show data
  - Remove
  - Automatically find clusters
  - Spotlight
  - Sort descending
  - Sort ascending
  - Sort by

# #04 & #05 | Clustered Column: Quick Analyze



Select any two bars using Ctrl



Select any one bar

# #04 & #05 | Clustered Column: Quick Analyze (...cont'd)

Here are the filters that cause the distribution of Sales by Month to change the most

narration

add to page

Here's the analysis of the 15.98% increase in Sales between September and December

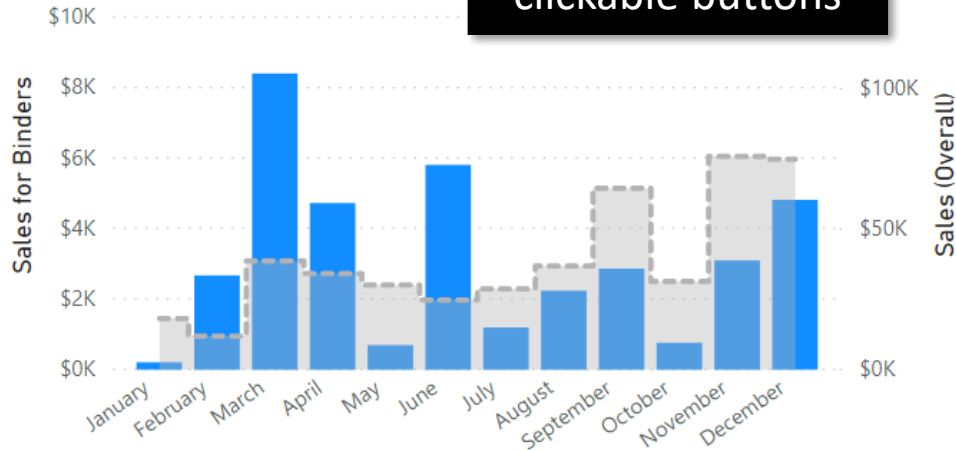
SUB-CATEGORY

'Binders', with 15.1% of records; 'Accessories', with 7.9% of records; and 'Furnishings' with 9.5% of records, among others, most affect the distribution.

Binders Accessories Furnishings

Sales for Binders Sales (Overall)

clickable buttons



Month

more options

Comparing proportions

2

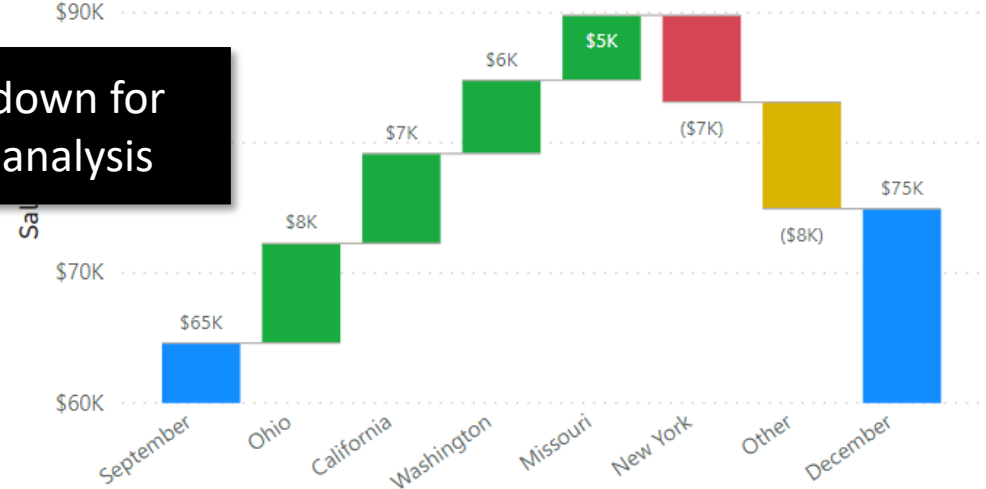
Find where this distribution is different

scroll down for more analysis

Sales BY MONTH AND STATE

'Ohio', 'California', and 'Washington' had the largest increase among State, offsetting the decrease of 'New York'. The relative contributions made by 'New York', 'Ohio', and 'California' changed the most.

Increase Decrease Total Other



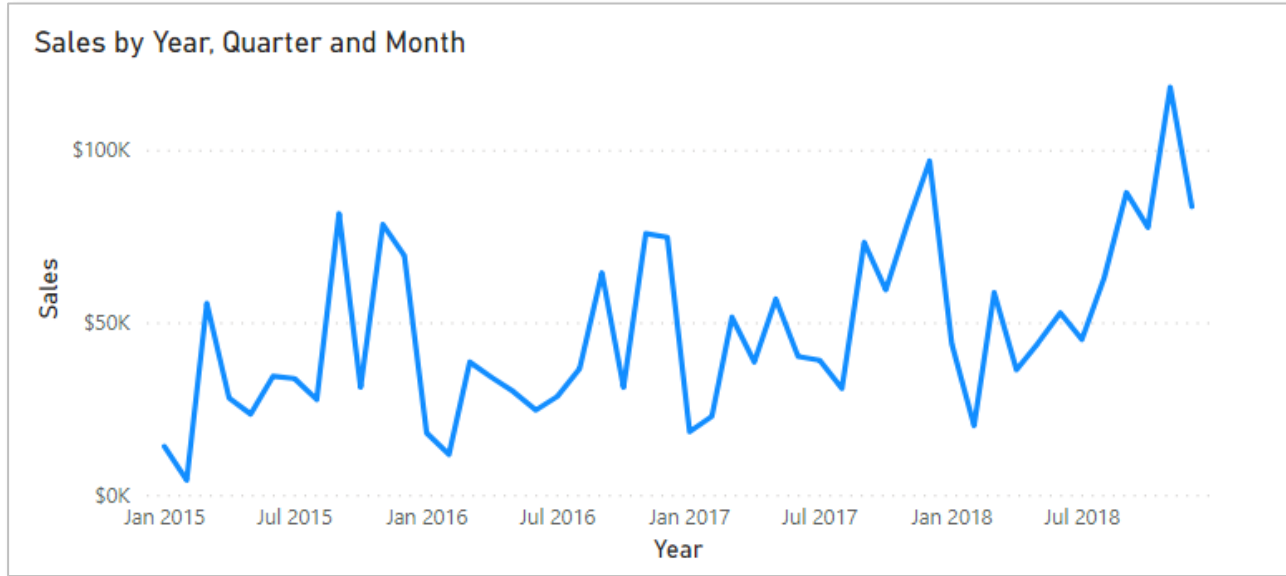
Month

more visualizations

1

Explain the increase

# #06 | Line: Time Series Analytics (Trend Line & Forecast)



Axis

- Order Date
- Year
- Quarter
- Month
- Day

Legend

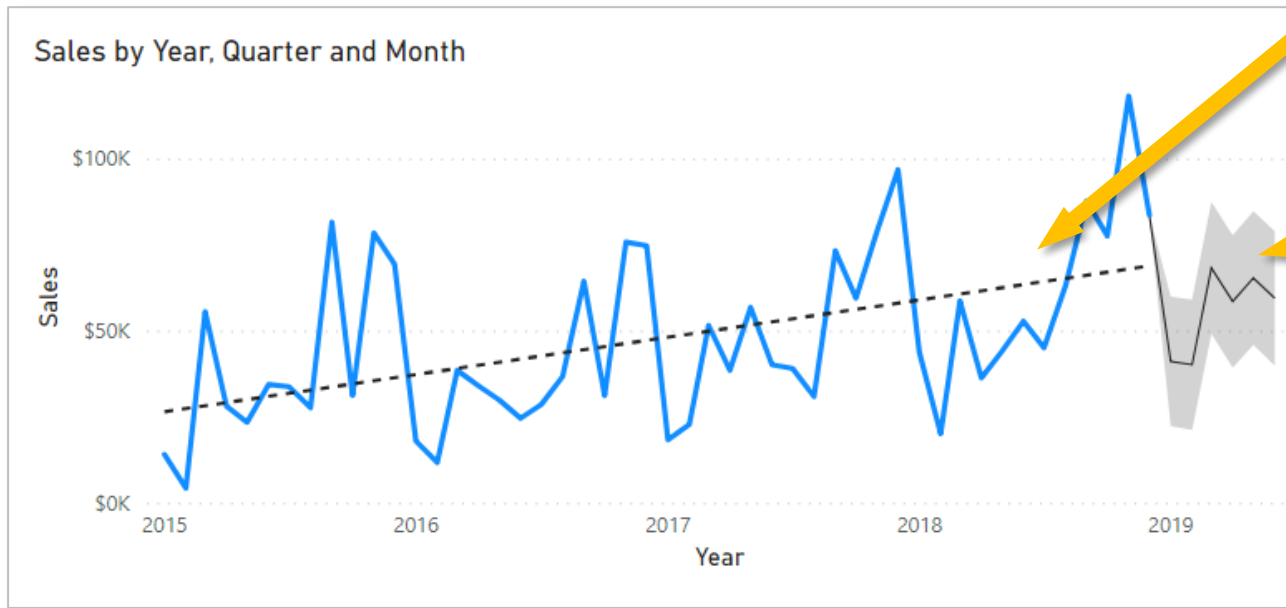
Add data fields here

Values

- Sales

Trend line 1

- Constant line
- Min line
- Max line
- Average line
- Median line
- Percentile line
- Forecast 1



Type

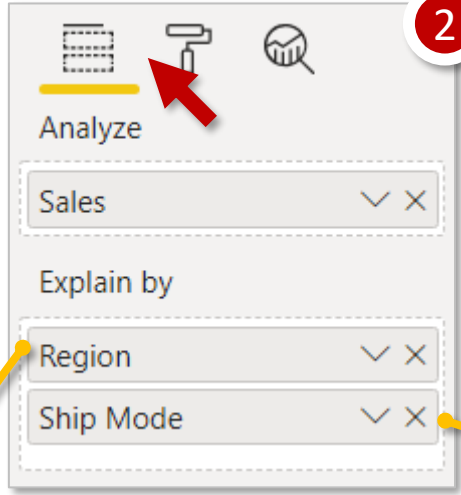
Continuous

Should be **Continuous** for Trend Line

# #07 | Decomposition Tree as released in Nov-2019 update



1



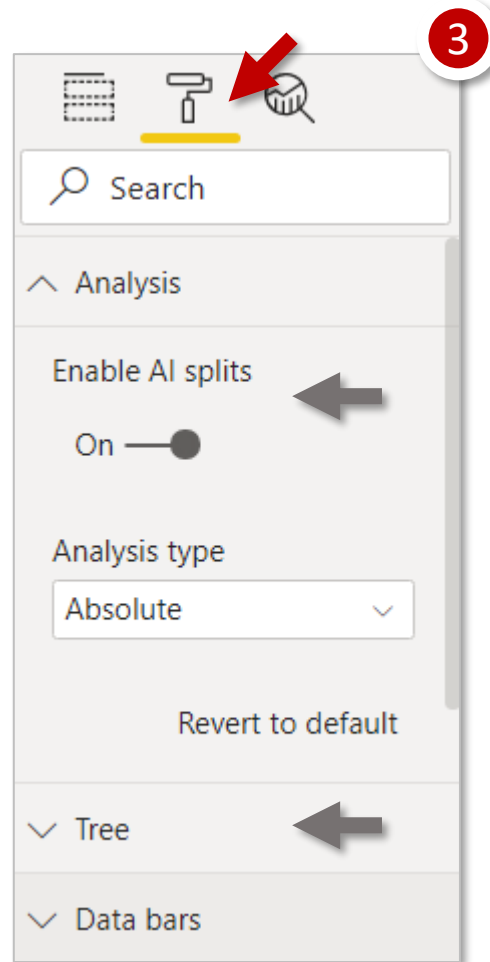
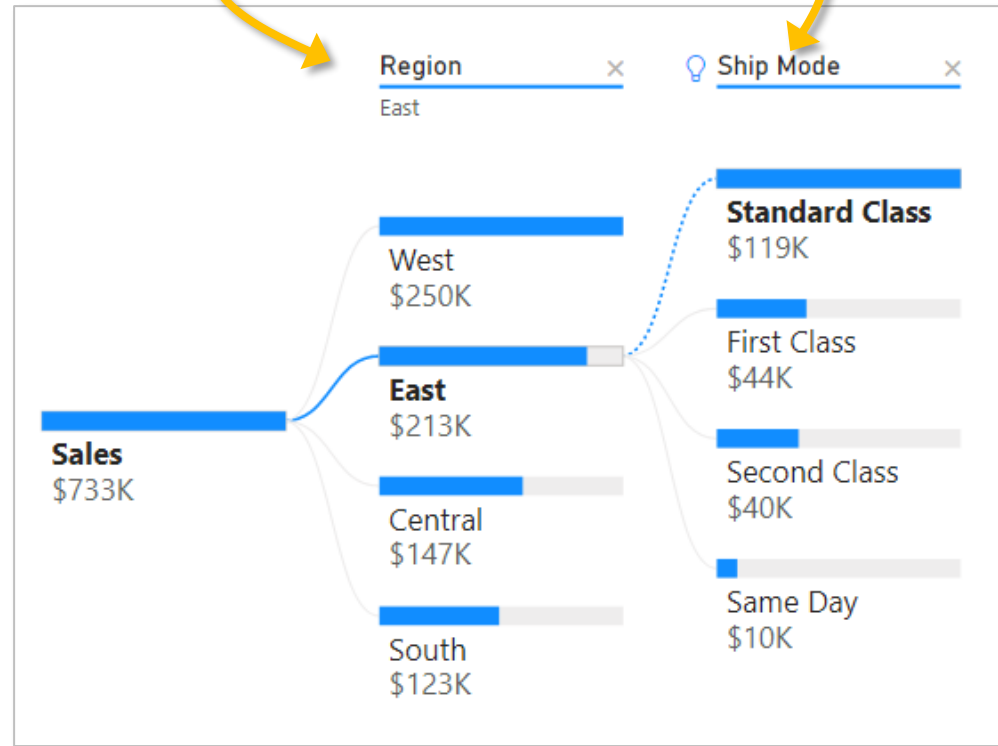
Analyze

Sales

Explain by

Region

Ship Mode



Search

Analysis

Enable AI splits

On

Analysis type

Absolute

Revert to default

Tree

Data bars



# #08 | Numeric Field: Create Bins using "New Group" & explore data patterns

1 Fields

sales

Orders

Σ Sales

Check

New hierarchy

New measure

New column

New quick measure

Rename

Delete

Hide

View hidden

Unhide all

Collapse all

Expand all

2 New group

Add to filters

Add to drillthrough

3 Groups

Name Sales (bins) Field Sales

Group type Bin Min value \$0.4

Bin Type Size of bins Max value \$22,638.5

Binning splits numeric or date/time data into equally sized groups. The default bin size is calculated based on your data.

Bin size 1000

4 Values

Sales (bins)

Count of Sales

5 Fields

sales

Orders

Σ Sales

Sales (bins)

6

Sales (bins)	Count of Sales
\$0.0	9526
\$1,000.0	328
\$2,000.0	77
\$3,000.0	23
\$4,000.0	21
\$5,000.0	4
\$6,000.0	2
\$7,000.0	1
\$8,000.0	4
\$9,000.0	3
\$10,000.0	1
\$11,000.0	1
\$13,000.0	1
\$17,000.0	1
\$22,000.0	1
<b>Total</b>	<b>9994</b>

# #09 | Matrix\*: Heat Map & Data Bars using Conditional Formatting



\* Most of the settings apply to Table Visual too

Visualizer settings panel showing icons for Table, Matrix, and Matrix with data bars. The 'Conditional formatting' section is expanded, and 'Sales' is selected in the dropdown menu.

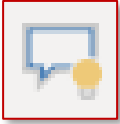
Conditional formatting settings for 'Background color' and 'Font color', both set to 'On'.

Conditional formatting settings for 'Background color' (set to 'Off') and 'Data bars' (set to 'On' with 'Show bar only' selected).



Month	Central	East	South	West	Total
January					\$19K
February					\$23K
March					\$52K
April					\$39K
May					\$57K
June					\$40K
July					\$39K
August					\$31K
September					\$73K
October					\$60K
November					\$79K
December					\$97K
<b>Total</b>	<b>\$147K</b>	<b>\$181K</b>	<b>\$94K</b>	<b>\$187K</b>	<b>\$609K</b>

Month	Central	East	South	West	Total
January					\$19K
February					\$23K
March					\$52K
April					\$39K
May					\$57K
June					\$40K
July					\$39K
August					\$31K
September					\$73K
October					\$60K
November					\$79K
December					\$97K
<b>Total</b>	<b>\$147K</b>	<b>\$181K</b>	<b>\$94K</b>	<b>\$187K</b>	<b>\$609K</b>

# #10 | Q&A: Ask a question using natural language



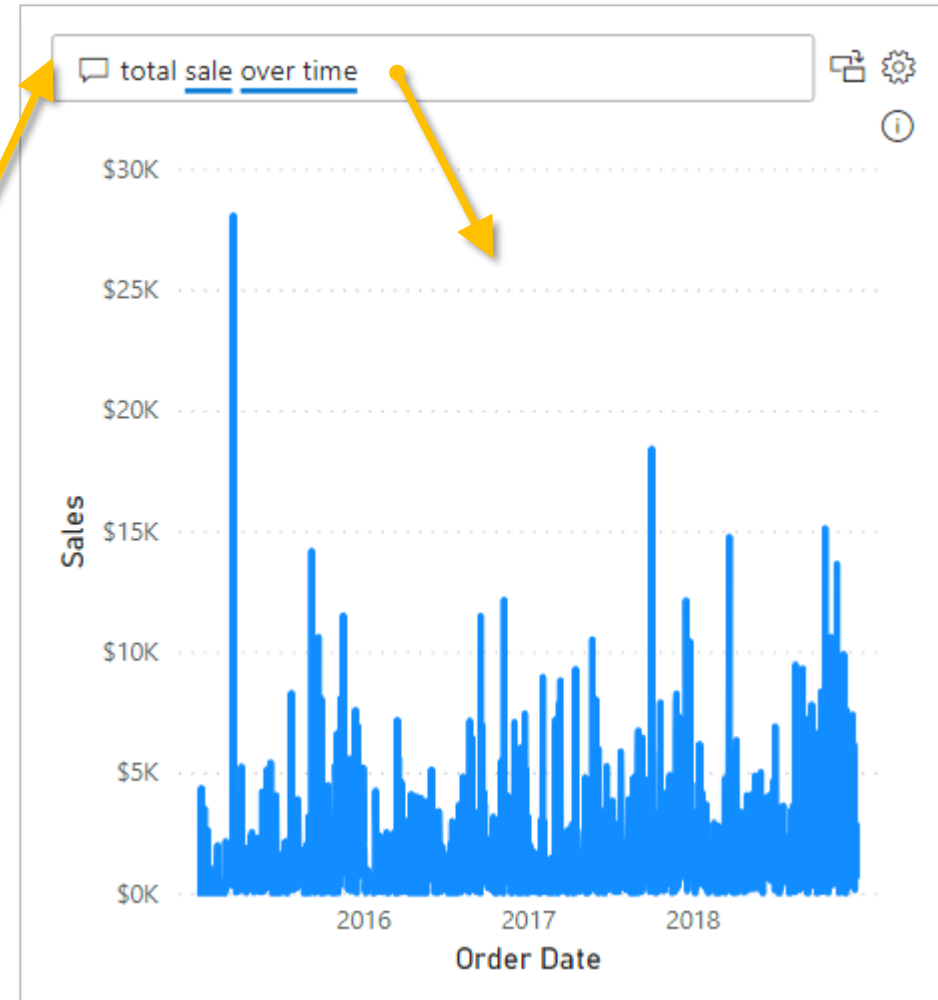
Can be activated by **JUST double-click** on the canvas area

Try one of these to get started

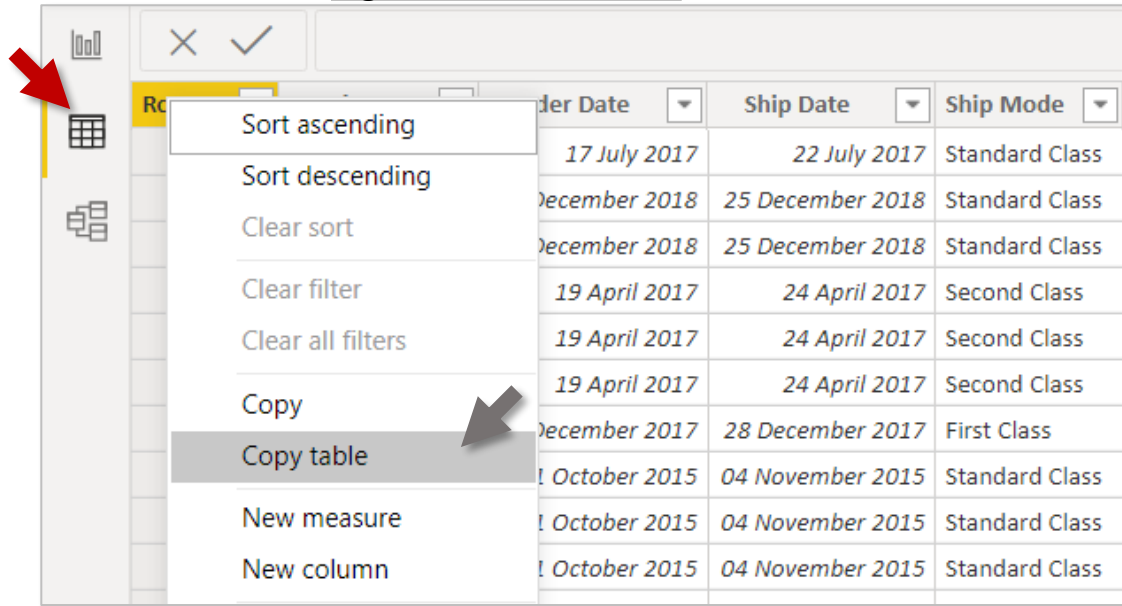
total sale	average sale
total profit	total sale over time
sort orders by state	sort orders by row ID
show the maximum sale	total profit over time
sort orders by country	compare sale and sales (bins)

[Show fewer suggestions](#)

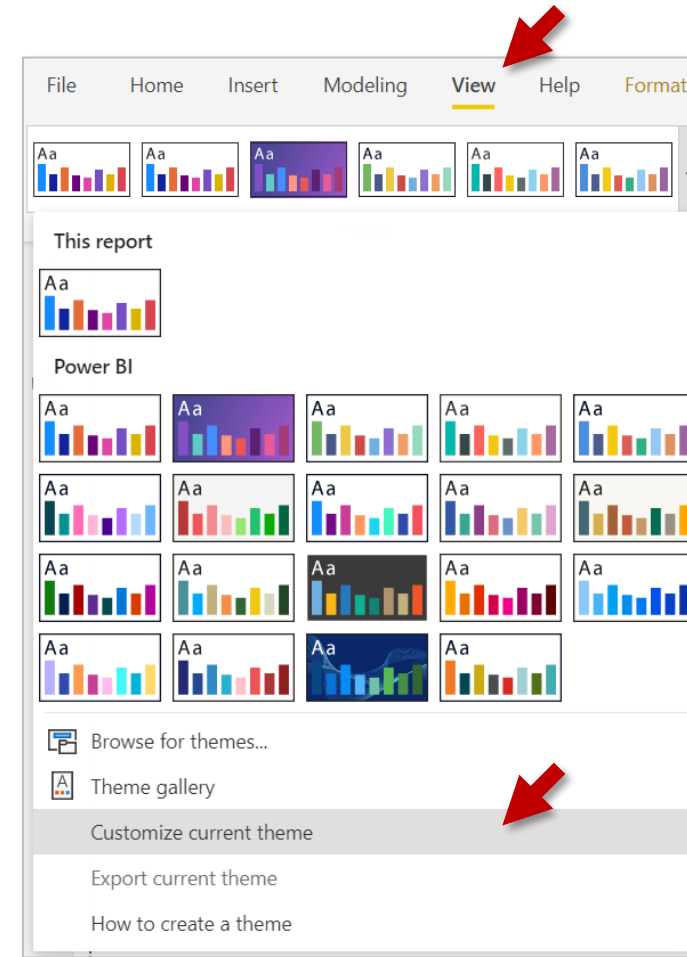


# Bonus: Others

Right-click on a column



**#1: Copy Table from Power BI for pasting it to Excel**



**#2: Customize Theme (Dec 2019 update)**

# Bonus: Others (...cont'd)

Visualizations

Import from file

Import from marketplace

Delete a custom visual

Restore default visuals

#3: Custom Visuals



Power BI Visuals

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- Maps
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- Time

Thermometer by MAQ Software

Radar Chart

Bullet Chart

Histogram Chart