

Create reports in Power BI Desktop

aka.ms/PL300-5



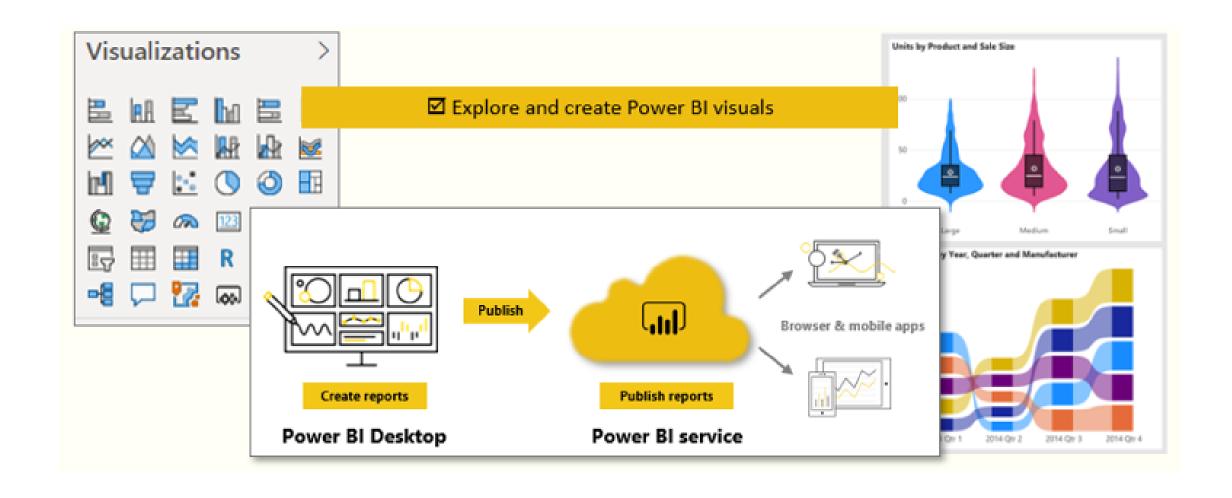
Agenda

- Work with visuals
- Report layout and interactions
- Navigation and filtering
- Report design elements

Work with visuals



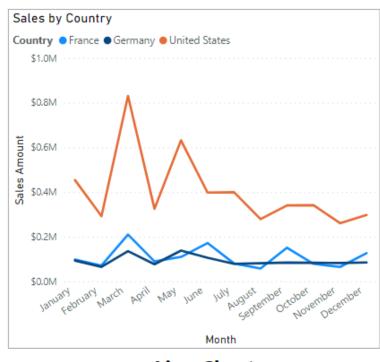
Add visualizations to reports



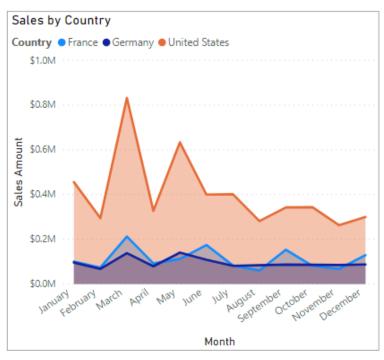
Choose effective visualizations

Country	Sales Amount
United States	\$7,390,464
France	\$773,445
Germany	\$493,628
Total	\$8,550,077

Table

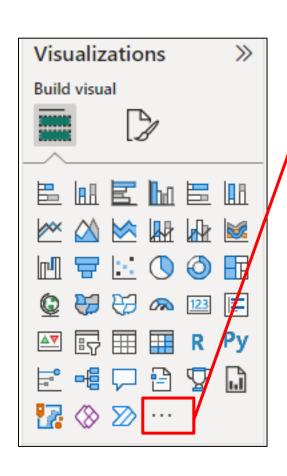


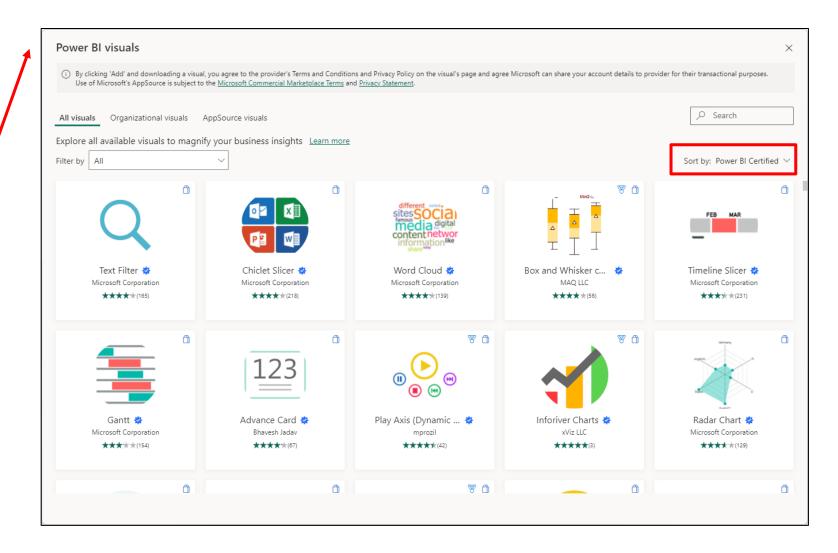
Line Chart



Area Chart

Import custom visuals from AppSource

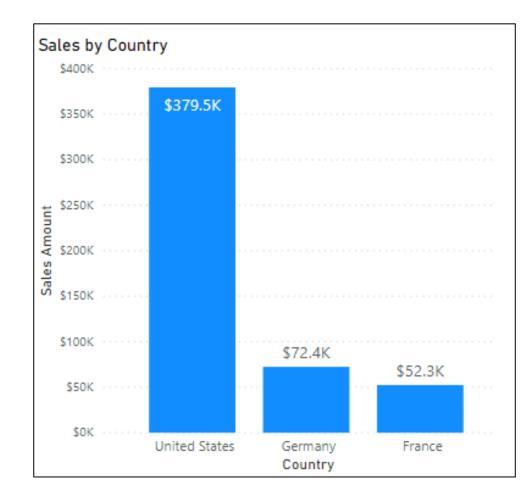


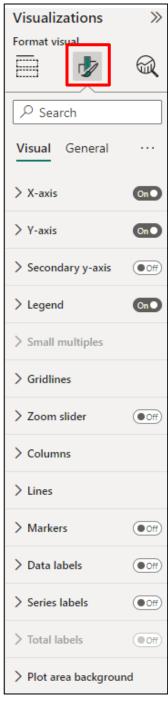


Format and configure visualizations

Common options:

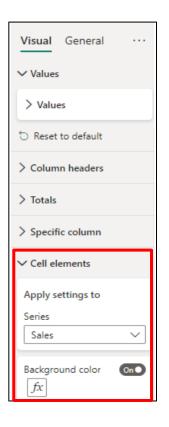
- Title
- Background
- Border
- Font type/size/color
- Data labels
- Tooltips

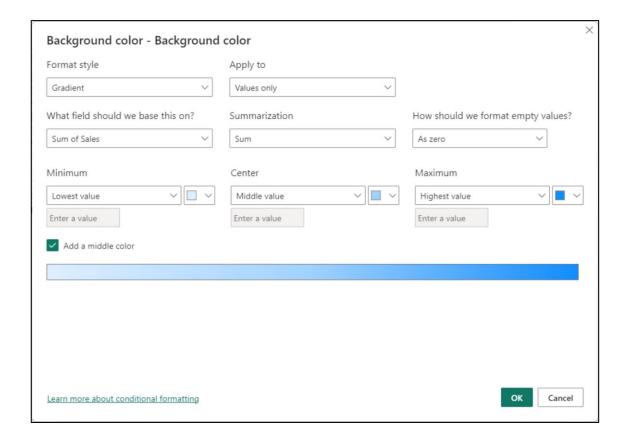




Configure conditional formatting

Enhance certain visuals with dynamic color schemes.



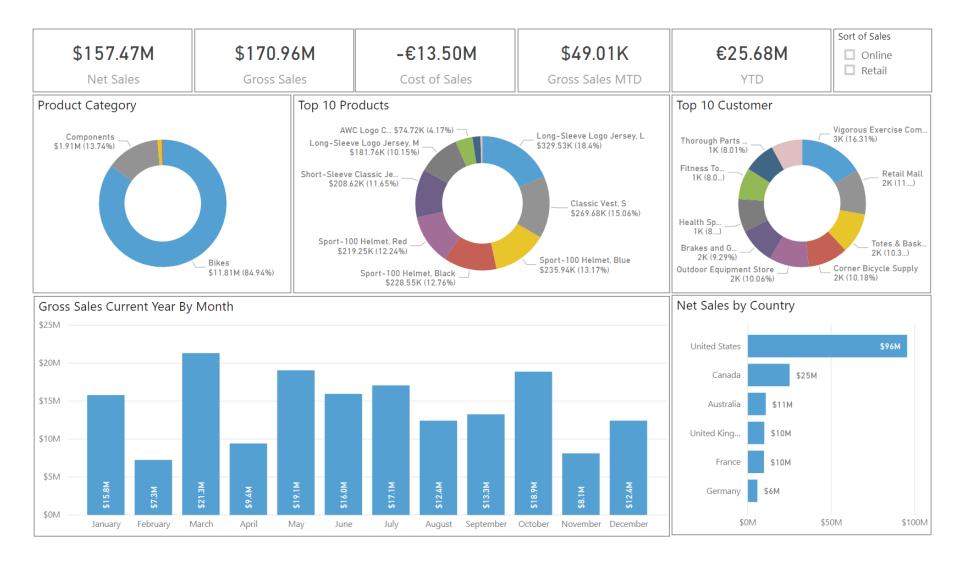


Region	Sales
Australia	\$1,391,025
Canada	\$13,875,633
Central	\$7,633,387
France	\$4,527,840
Germany	\$1,877,743
Northeast	\$6,715,354
Northwest	\$12,004,822
Southeast	\$7,638,607
Southwest	\$18,001,116
United Kingdom	\$3,883,043
Total	\$77,548,570

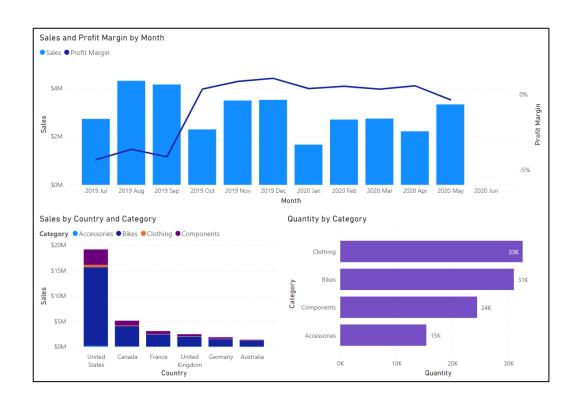
Report layout and interactions

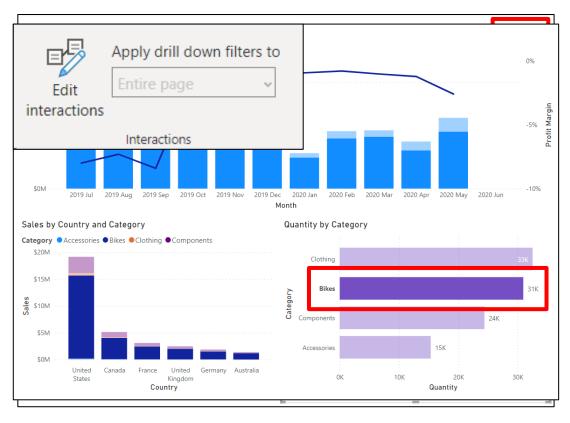


Design an appealing report layout

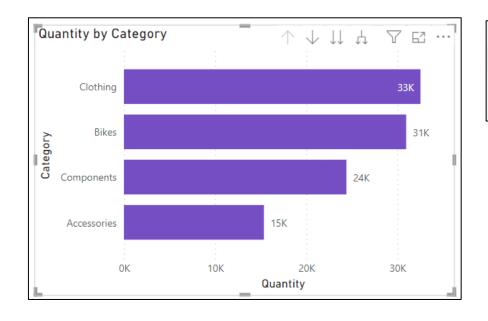


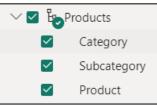
Cross-highlight between visuals

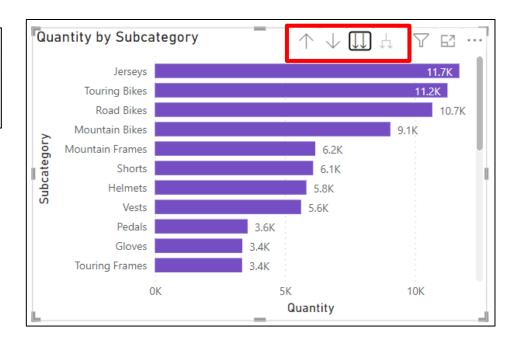




Drill down through a hierarchy in a visual







Lab: Design a report in Power BI Desktop (45 minutes)



Design a Report | GitHub Exercise

In this lab, you'll create a three-page report. You'll then publish it to Power BI, whereupon you'll open and interact with the report.

- Design a report
- Configure visual fields and format properties

Knowledge check: create reports



Is conditional formatting available for all visuals?

- ☐ Yes, all default included visuals in Power BI Desktop.
- □ No, only custom visuals imported from AppSource.
- ☑ No, only table and matrix visuals in Power BI Desktop.

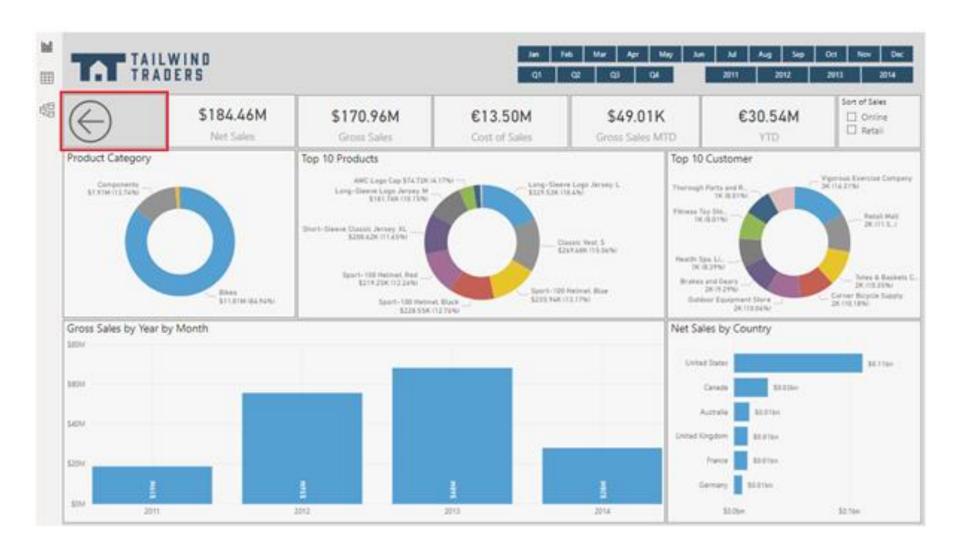
What is the default interaction between visuals?

- ☐ There's no interaction between visuals by default.
- Mall visuals will cross-highlight and slicers filter other visuals.
- ☐ Slicers will filter other visuals, but visuals don't cross-highlight.

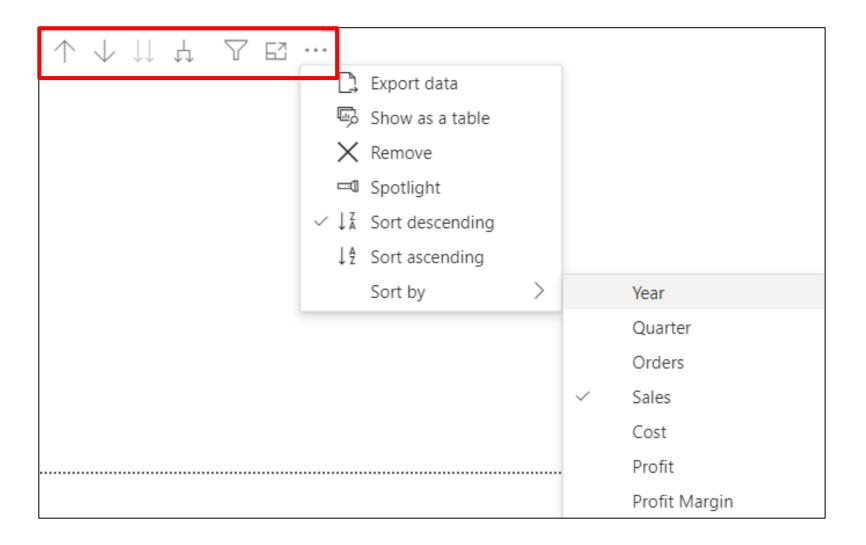
Navigation and filtering



Design functional report navigation



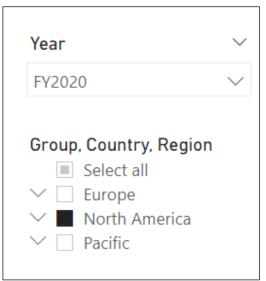
Sort visuals in the most effective order

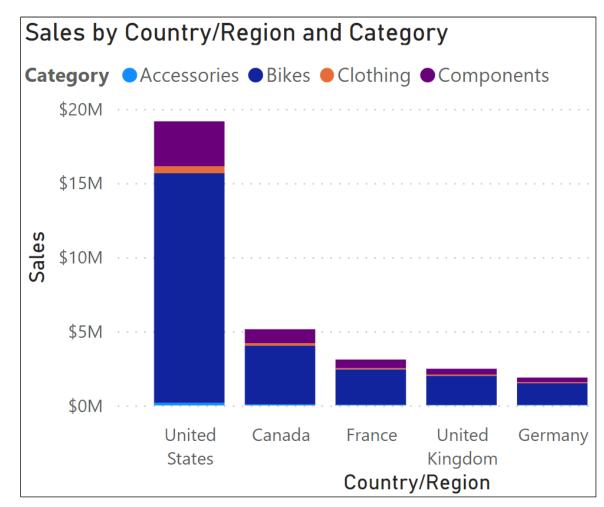


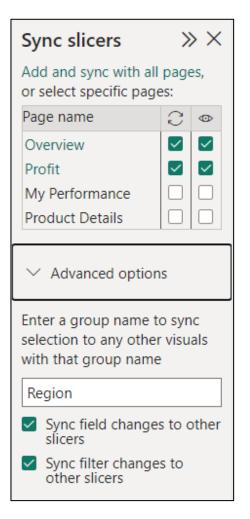
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Use the Slicer visual to provide on-report filtering

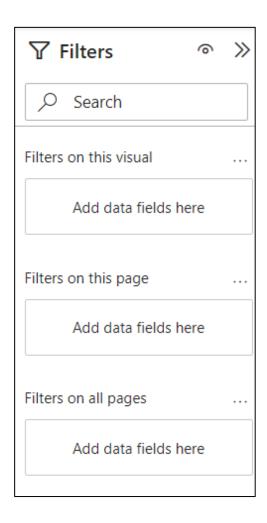


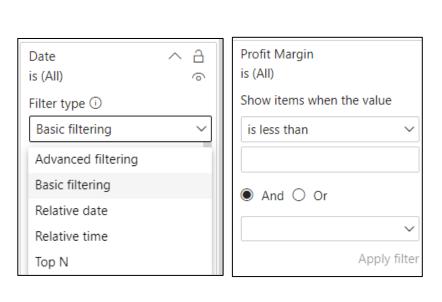


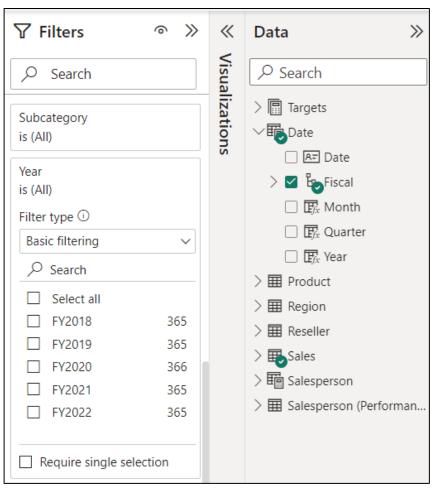




Create complex filter conditions with the Filter pane







Enhance design with report elements

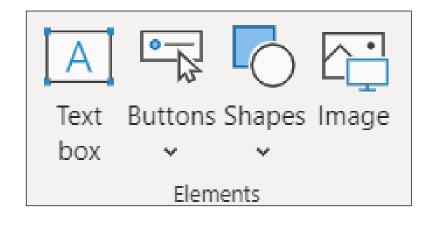


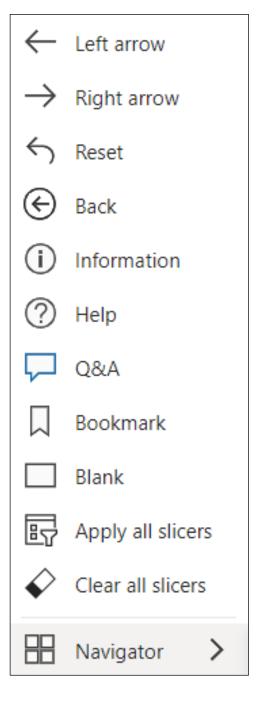
Add shapes and buttons

Enhance reports with:

- Text boxes
- Images
- Shapes

Improve navigation with Buttons.

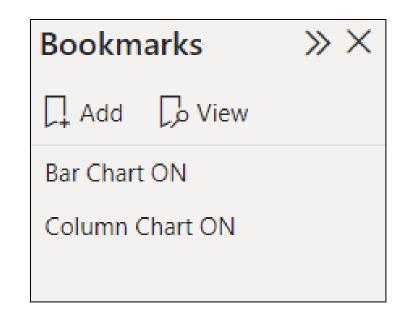




Preserve report state with bookmarks

Bookmarks capture:

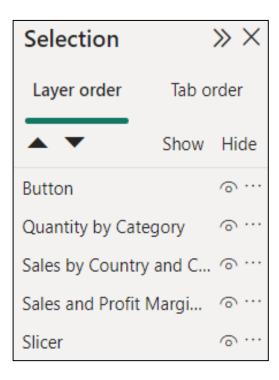
- Current page
- Filters
- Slicers
- Sort order
- Drill location



Use selection order for accessibility

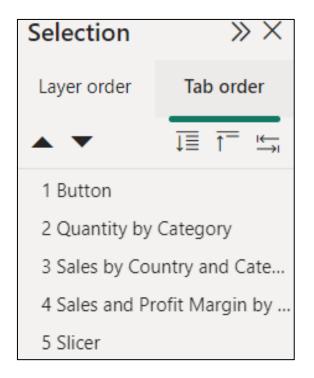
Layer order:

Defines the order of visuals.

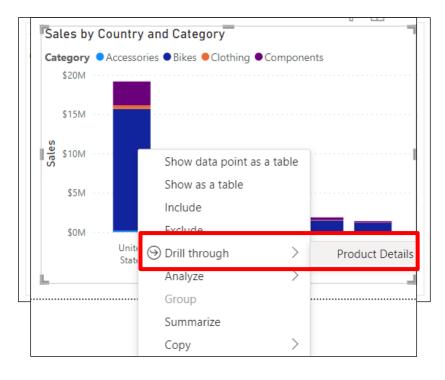


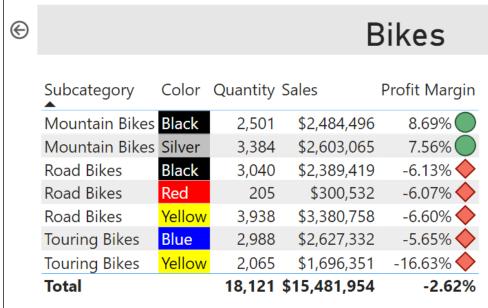
Tab order:

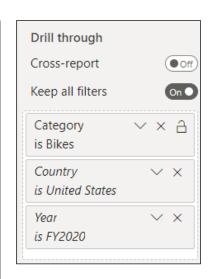
Controls keyboard user navigation.



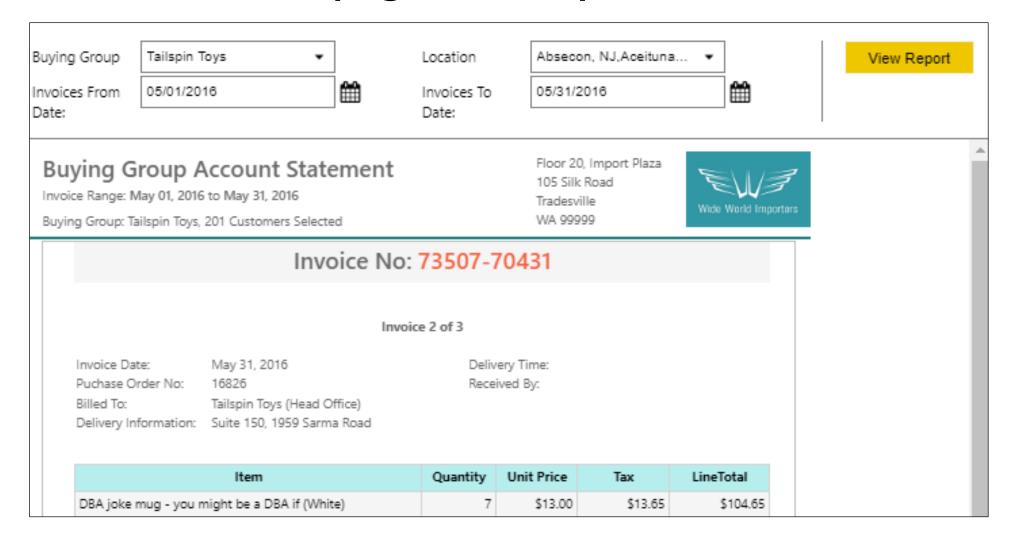
Drill through from one visual to another







Choose when to use paginated reports



Lab: Enhance a report in Power BI Desktop (45 minutes)



Enhance a Report | **GitHub Exercise**

In this lab, you'll enhance the Sales Analysis with advanced design features.

In this lab you learn how to:

- Sync slicers
- Create a drill through page
- Apply conditional formatting
- Create and use bookmarks

Knowledge check: enhance reports



What type of report visual	can effectively show the stock	levels at a comp	any?

- ☐ Bar chart
- ☐ Pie chart
- **ॉ** Line chart

What type of report visual can show detailed sales values over time and by type?

- **Matrix**
- □ Table
- ☐ Treemap

Recap

In this section, we covered:

Choosing effective visuals and add to canvas.

Formatting and configuring visuals.

Designing report layout and interactions.

Configuring navigation and filtering.

Enhancing design with report elements, including bookmarks.

Setting tab and layer order to increase accessibility.

How to use drill down and drill through for additional insights.

When to use paginated reports.



Perform Advanced Analytics with Power BI Desktop

aka.ms/PL300-6



Agenda

Explore insights with Advanced Analytics

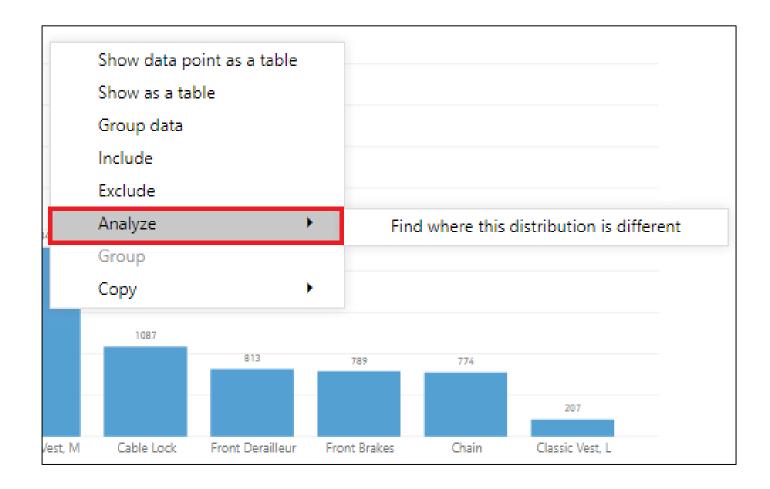
- Data comparison with Analyze feature.
- Group and bin data.
- Cluster data and find outliers with Scatter chart visual.
- Key Performance Indicator visual.
- What-if parameters for scenario planning.

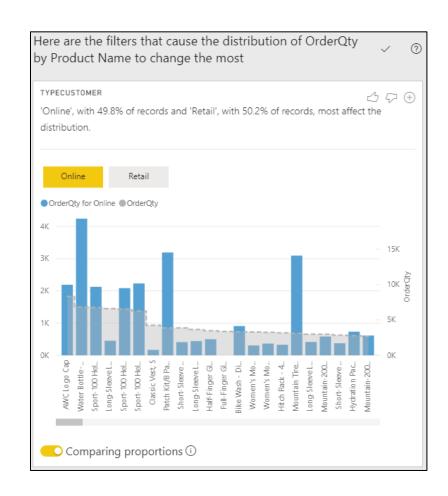
Leverage AI visuals

Explore insights with Advanced Analytics



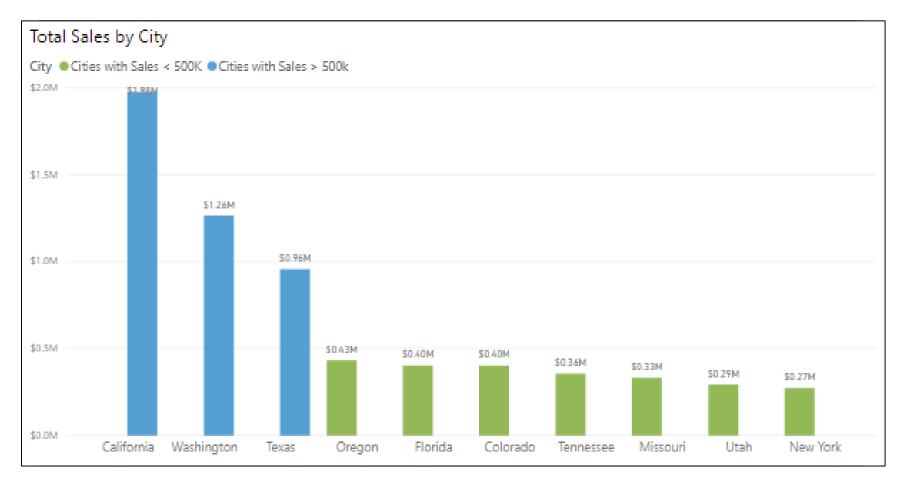
Compare data with the Analyze feature





Group and bin data

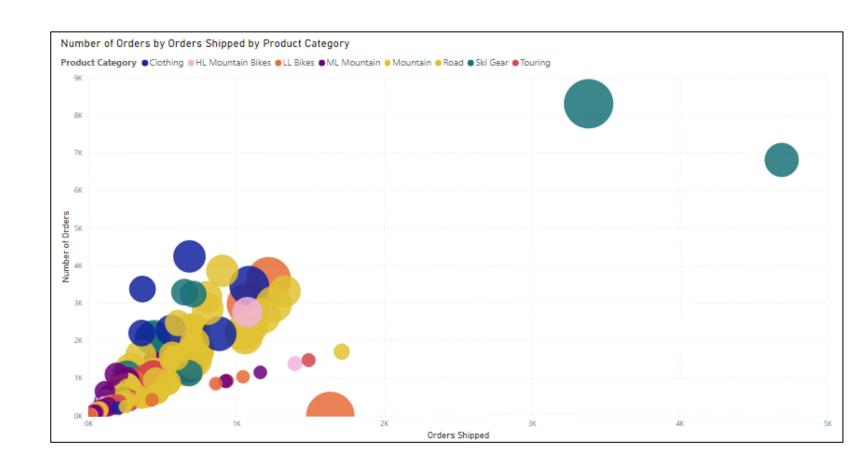
Organize data into categories or intervals to better analyze and visual data.



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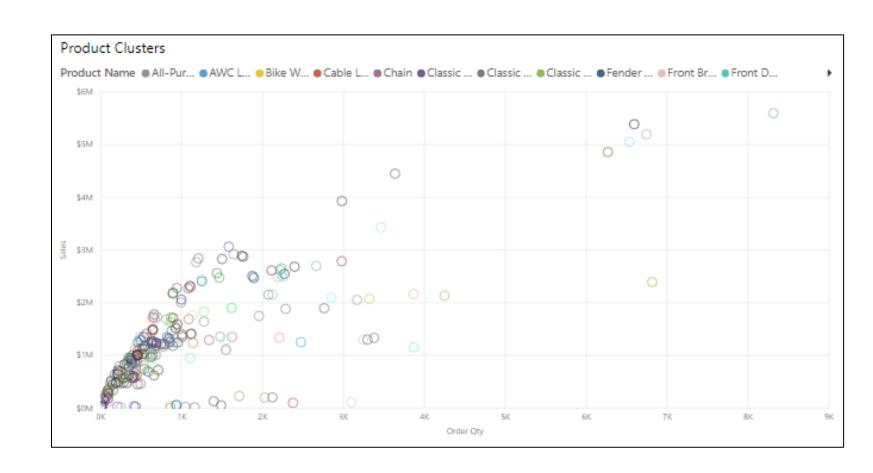
Identify outliers in data

- Unexpected deviations in data.
- Scatter charts can detect outliers.
- Use DAX to define and analyze outliers dynamically.



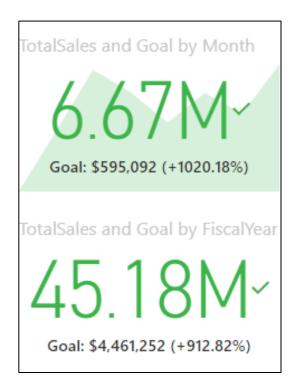
Clustering with Scatter chart visual

- Automatic data grouping.
- Enhance pattern recognition and insights.
- Simplify data understanding and analysis.

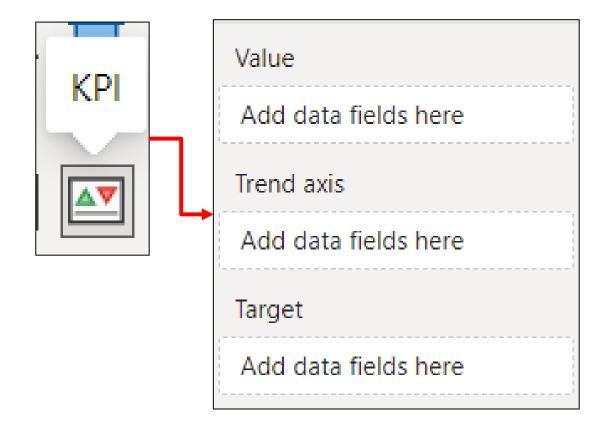


Key Performance Indicator visual

At-a-glance insights into performance against predefined targets.

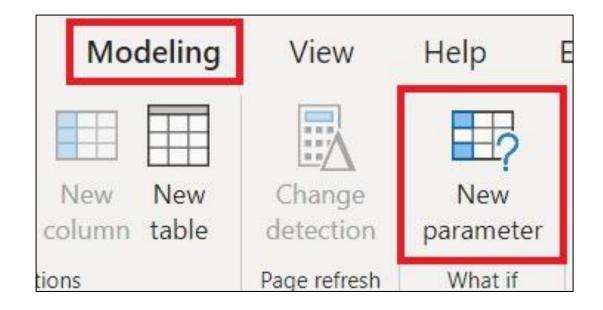


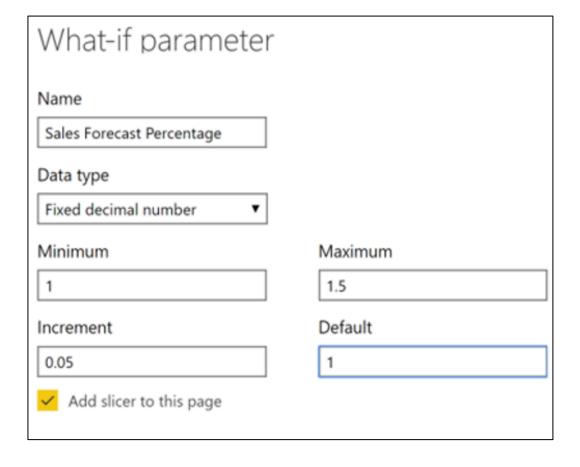




What-if parameters

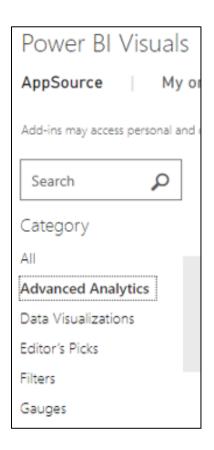
Enable scenario planning and interactive exploration for better decision-making.

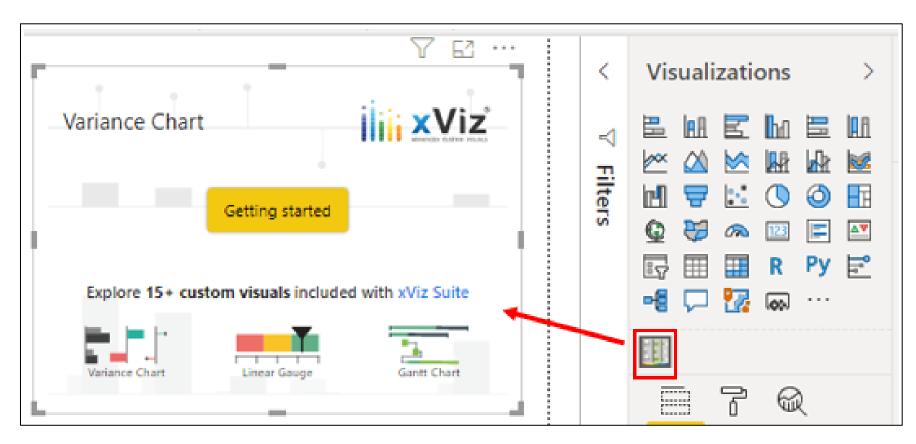




Advanced Analytics custom visuals

Discover additional visuals developed with Advanced Analytics in mind.



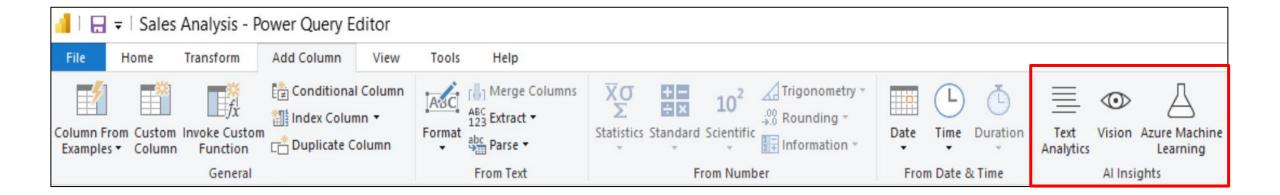


Leverage Al visuals



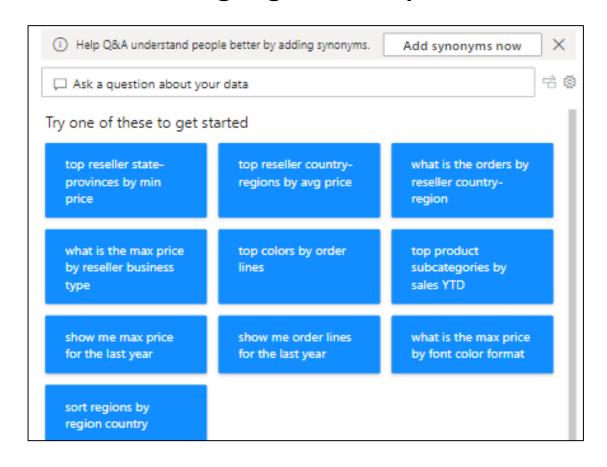
Al Insights for data preparation in Power Query Editor

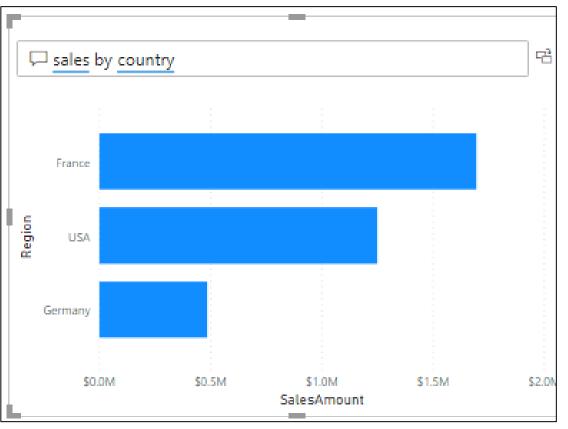
Leverage AI analysis of text, images, and use Azure Machine Learning models.



AI in the Q&A feature

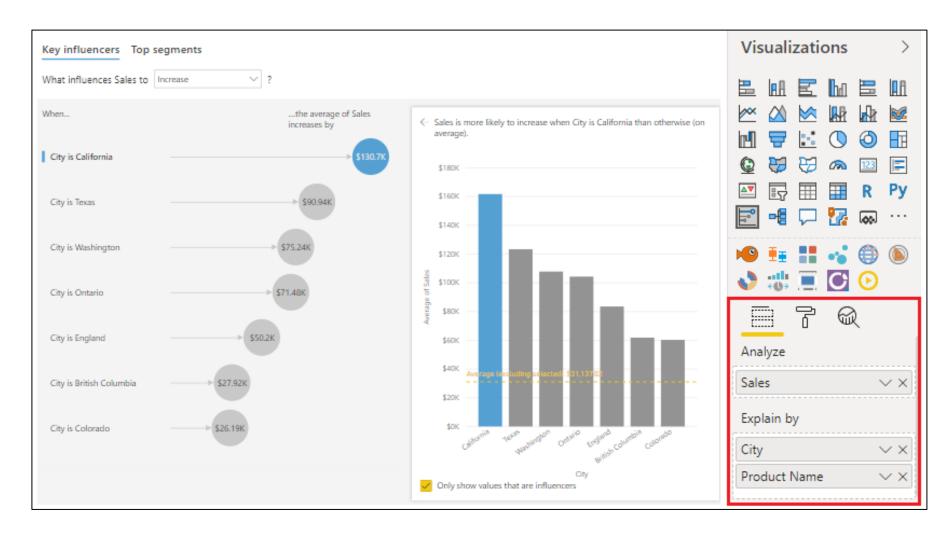
Use natural language to ask questions about data and create visuals for insights.





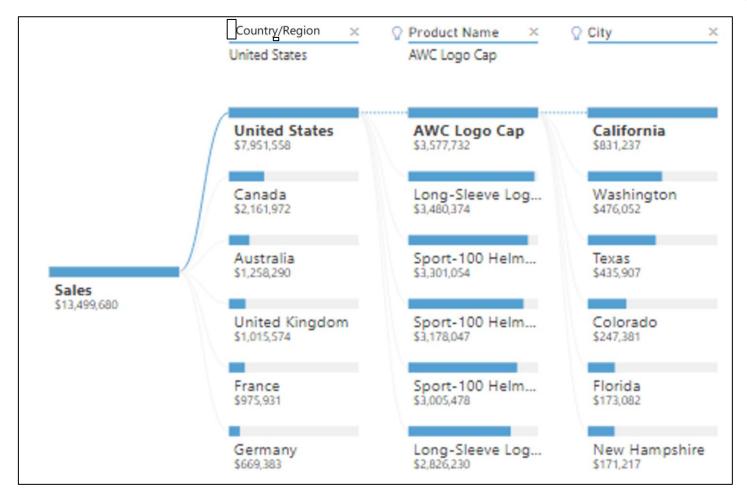
Key influencers visual

Identify factors driving variations in a chosen target metric.



Decomposition tree visual

Visualize data hierarchies for in-depth exploration and pattern discovery.



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Lab: Perform data analysis in Power BI (30 minutes)



Perform Data Analysis | GitHub Exercise

In this lab, you'll create the Sales Exploration report.

In this lab you learn how to:

- Create animated scatter charts
- Use a visual to forecast values

Knowledge Check: Al Visuals



Where are time series charts located?

- ☐ The filter pane is where all filters on visuals and pages are located.
- Time series charts can be imported from AppSource.
- ☐ The fields pane is where all charts are located.

What visual should be used to display outliers?

- ☐ The line chart is best-suited to display outliers.
- The scatter chart is best-suited to display outliers.
- ☐ The clustered column chart is best-suited to display outliers.

Recap

In this section, we covered:

Grouping and binning and the Analyze feature to compare data.

Clustering data and finding outliers with the Scatter chart visual.

Scenario planning with what-if parameters.

Leveraging AI during data preparation.

Discovering trends and patterns with Key Influencers and Decomposition Tree visuals.



Thanks

Resources

Design Power BI reports

Configure Power BI report filters

Enhance Power BI report designs for the user experience

Perform advanced analytics in Power BI