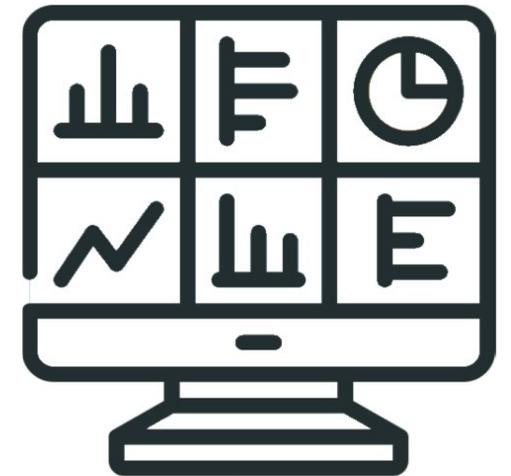


Developing Reports

Add Visuals and Report Elements

- Commonly, report pages are created using a combination of **visuals** and **report elements**
- **Visuals** are any object added to a report page that requires (at least) one or more *fields* from the *model*
 - Types include: *visuals, tables, slicers*
- **Report Elements** are any object added to a report page that do not require any *fields* from the *model*
 - Types include: *text boxes, images, shapes, buttons*¹



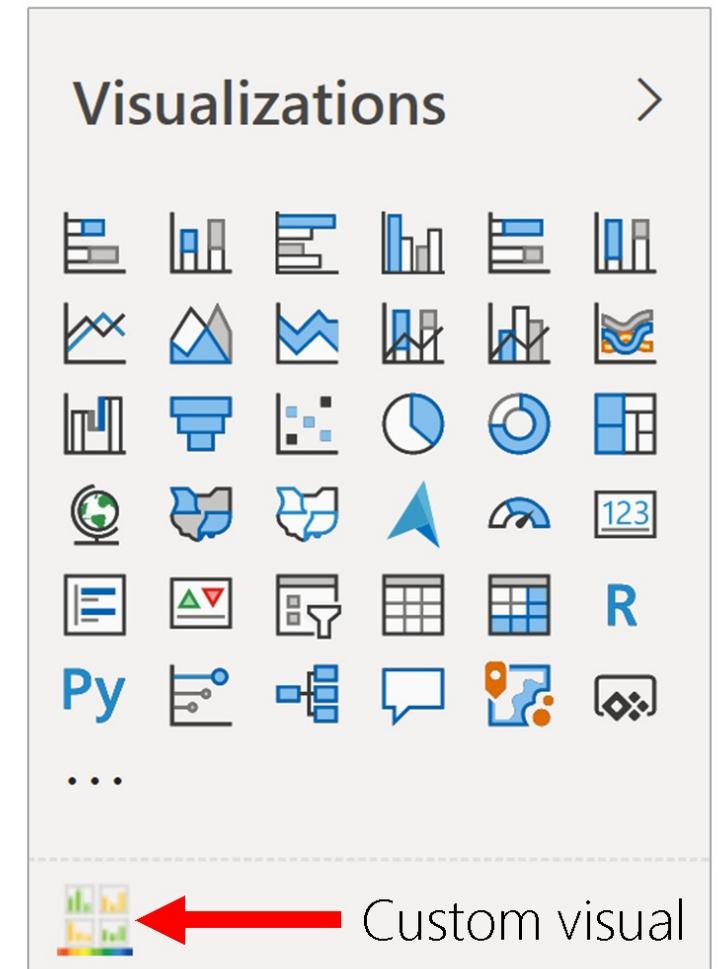
1: Buttons will be covered in **Module 2**

Developing Reports

Add Visuals and Report Elements ► Visuals

- **Visualizations** in Power BI contain multiple types of objects – the *primary categories* are:
 - **Charts/Graphs:**
 - Column, Bar, Line, Combo, Scatter, Waterfall, Funnel, Treemap
 - **AI Visuals:**
 - Key influencers, Decomposition tree, Smart narrative, Q&A¹
 - **Tables:**
 - Table, Matrix
 - **Cards:**
 - Card, Multi row card, KPI, Gauge
 - **Maps:**
 - Map, Filled map, shape map, ArcGIS map, Azure map
 - **Filter data:**
 - Slicer
 - **Custom visuals:**
 - From file or marketplace

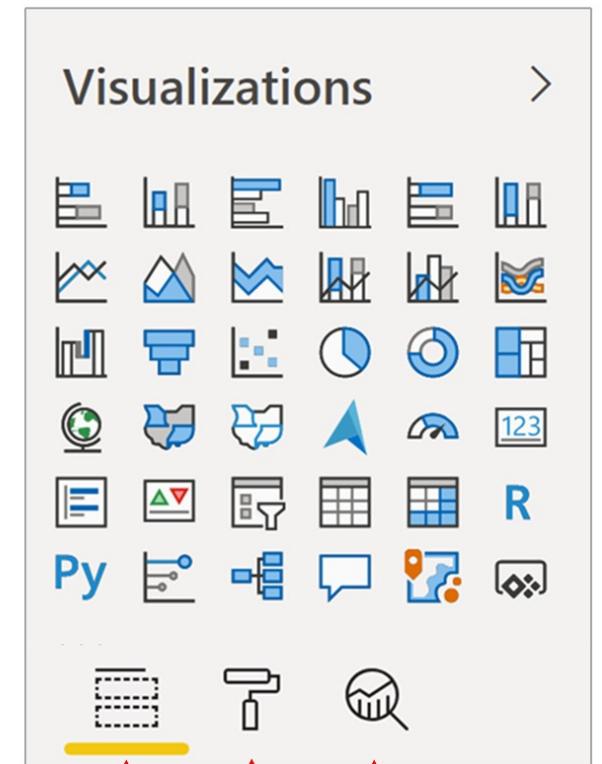
1: Added from the Insert ribbon



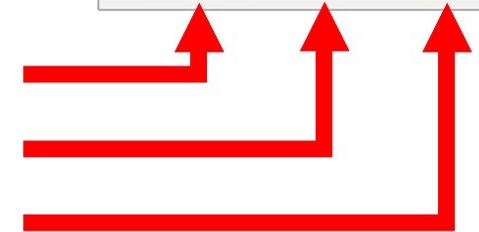
Developing Reports

Add Visuals and Report Elements ► Configure Visuals

- Three sub-panes exist for configuring visualizations:
 - **Fields pane** – displays *wells* (inputs) to *add, remove, or modify* fields in the visual
 - **Format pane** – displays *formatting and settings* for a visual
 - Commonly, formatting is configured *after* all visuals and report elements have been added to the report
 - **Analytics pane** – displays available *analytics lines* that can be added to a visual



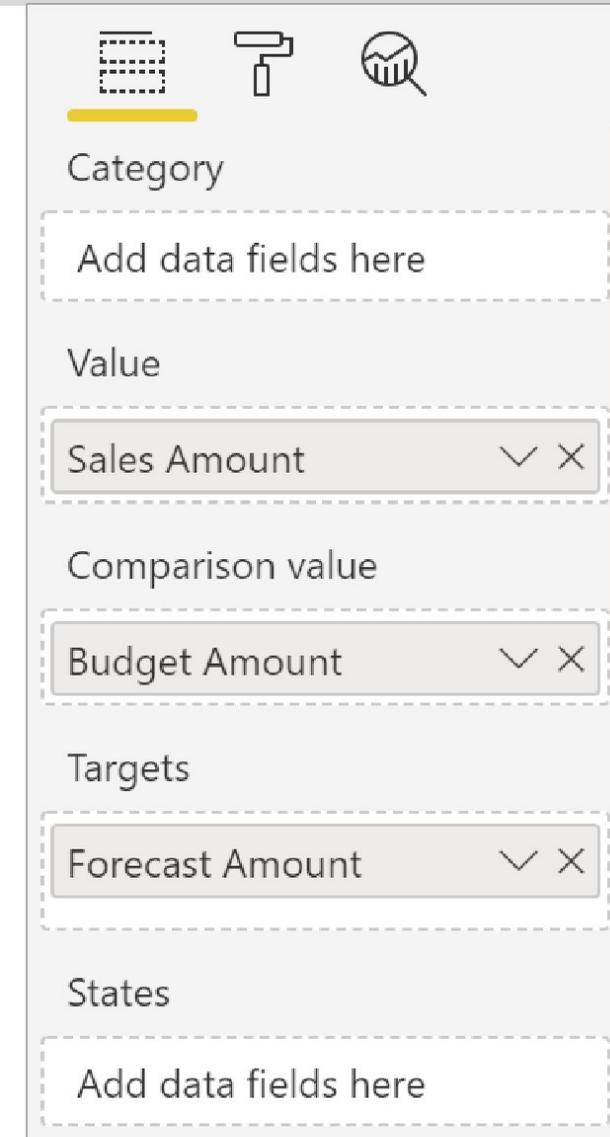
Fields pane
Format pane
Analytics pane



Developing Reports

Add Visuals and Report Elements ► Fields Pane

- The **Fields** pane displays a series of *wells* for a visual
 - Displayed wells will change depending on the selected visual
- Commonly, fields added to a well either display *categorical data* – or *aggregate* the data
 - Fields can be added to the same well more than once
- **Field configurations:**
 - Rename
 - Select aggregation
 - Show value as
 - Move to (other well)
 - Remove field
 - Reorder



Developing Reports

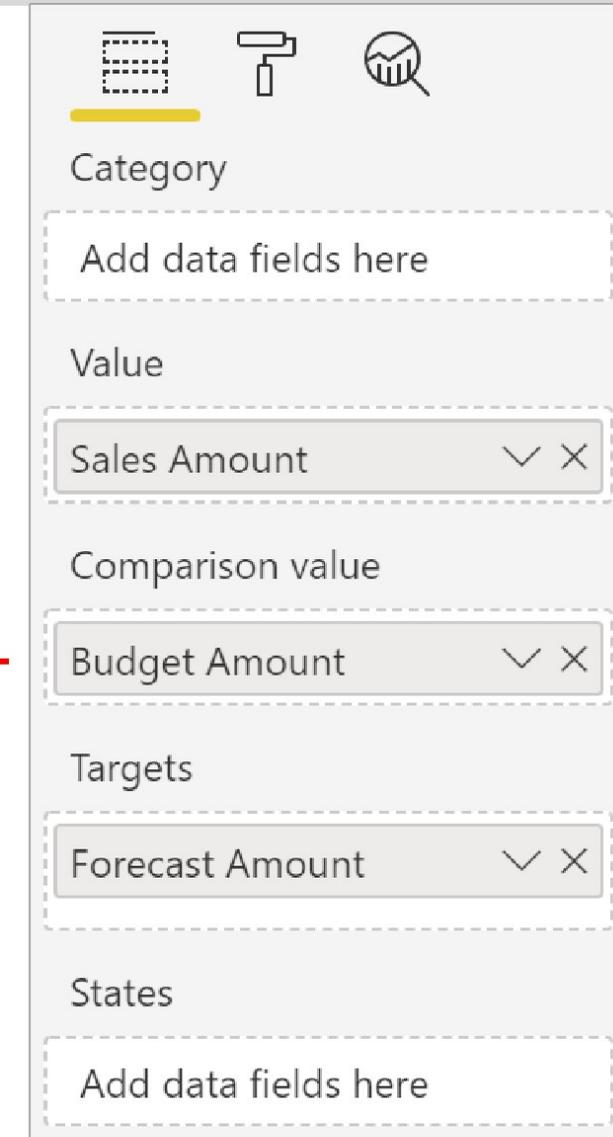
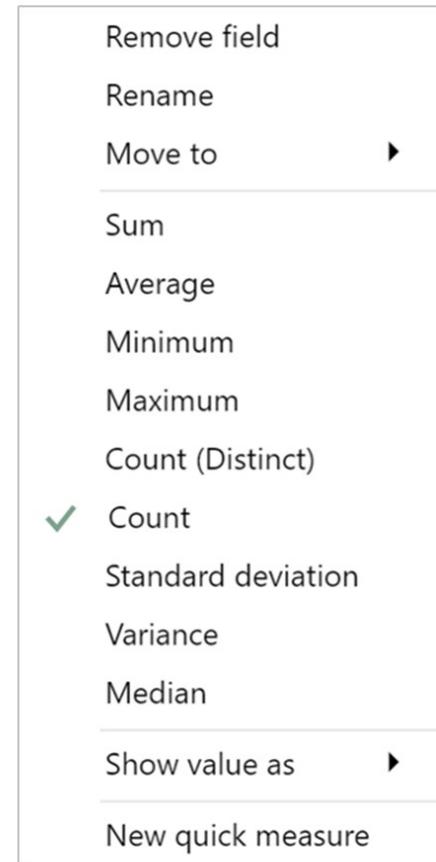
Add Visuals and Report Elements ► Fields Pane

- **Supported field *aggregations* include:**

- Sum
- Average
- Minimum
- Maximum
- Count (Distinct)
- Count
- Standard deviation
- Variance
- Median

- **Fields can also be *shown as*:**

- Percentage of *grand total*
- Percentage of *row total*
- Percentage of *column total*



Developing Reports

Add Visuals and Report Elements ► Analytics Pane

- The **Analytics** pane adds *dynamic reference* lines – which provides focus on important trends or insights
- **Line types include:**
 - Trend
 - Constant
 - Minimum
 - Maximum
 - Average
 - Median
 - Percentile
 - Forecast¹
 - Symmetry shading²

1: Only available for the **Line Chart**

2: Only available for the **Scatter Plot**



Developing Reports

Add Visuals and Report Elements ► Report Elements



Text Box



Button



Shape



Image

- **Report Elements in Power BI include:**

- **Text Box** – Rich text box
- **Button** – User interactive button that can be assigned a *bookmark* or *URL link*
- **Shape** – Inserts a rectangle, oval, line, triangle, arrow
- **Image** – Imports a local image file