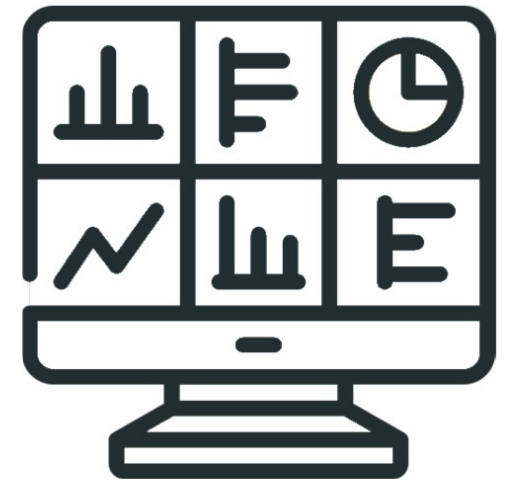


# Developing Reports

## 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*<sup>1</sup>



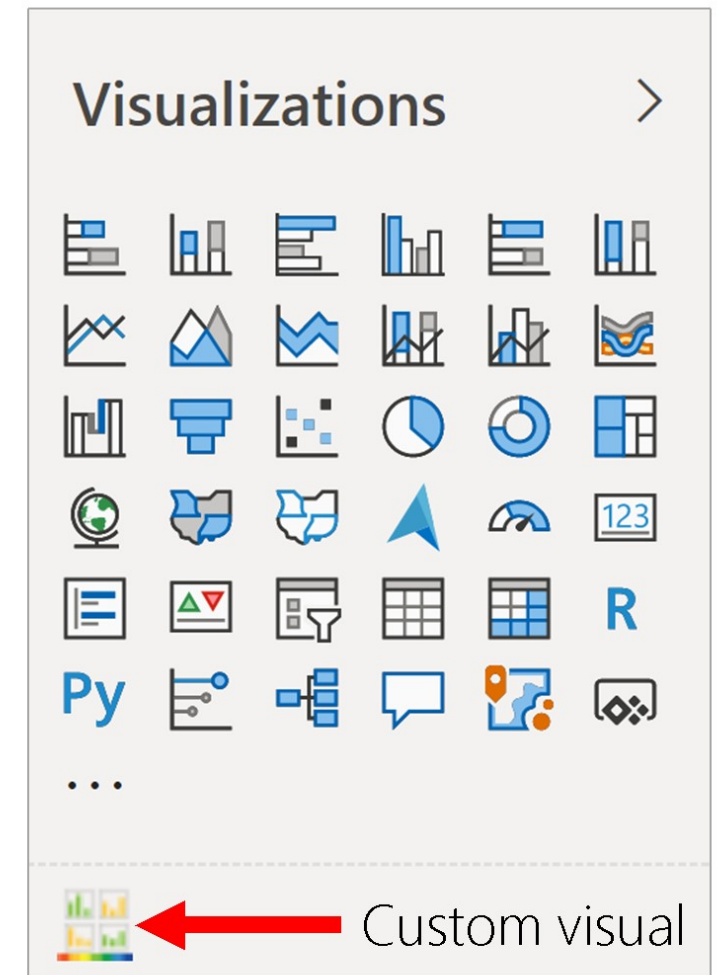
**1:** Buttons will be covered in **Module 2**

# 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&A<sup>1</sup>
  - **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

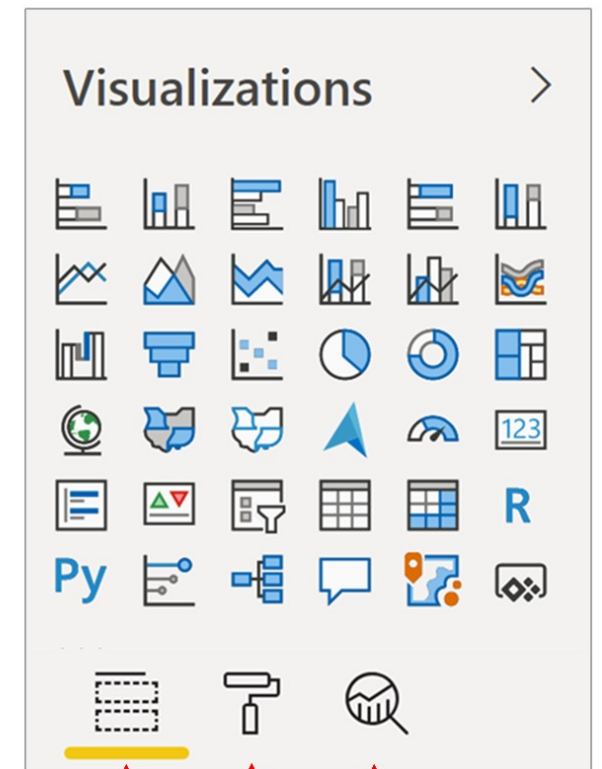
1: Added from the Insert ribbon



# 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

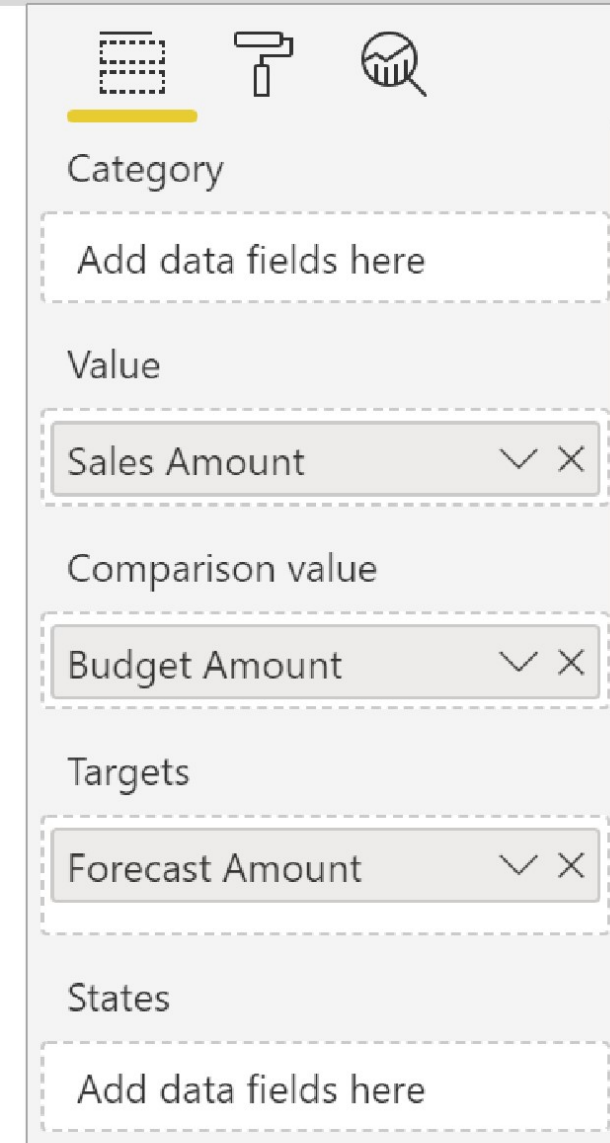
Format pane

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



The screenshot shows the 'Fields' pane interface. At the top, there are three icons: a grid for 'Category', a bar chart for 'Value', and a line chart for 'Comparison value'. The 'Category' section is highlighted with a yellow bar and contains a dashed box labeled 'Add data fields here'. The 'Value' section contains a field 'Sales Amount' with a dropdown arrow and a close button. The 'Comparison value' section contains a field 'Budget Amount' with a dropdown arrow and a close button. The 'Targets' section contains a field 'Forecast Amount' with a dropdown arrow and a close button. The 'States' section contains a dashed box labeled 'Add data fields here'.



# Developing Reports

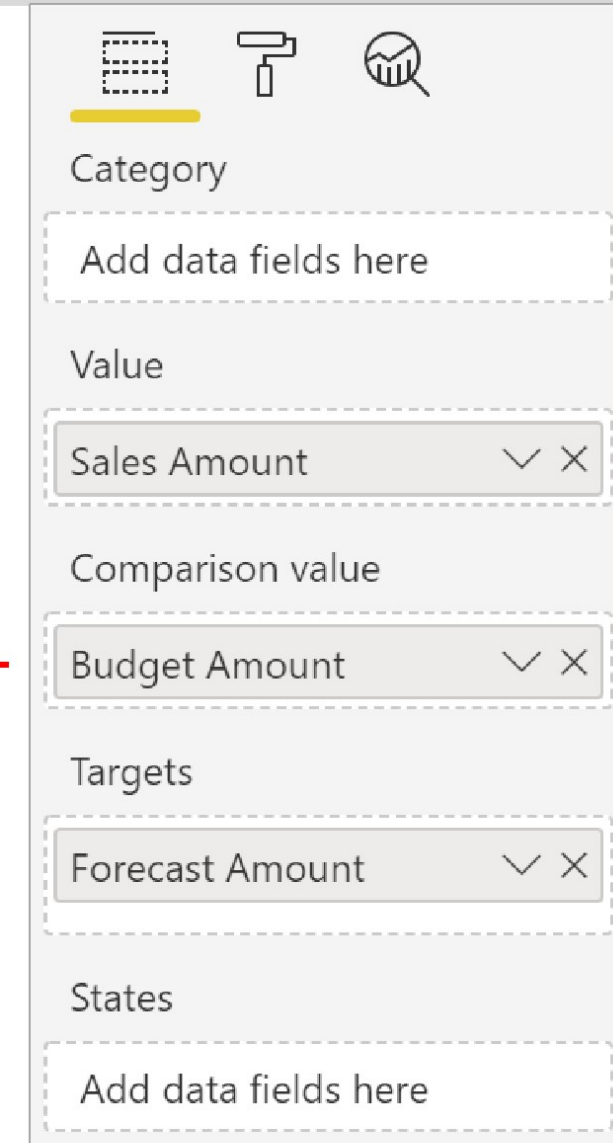
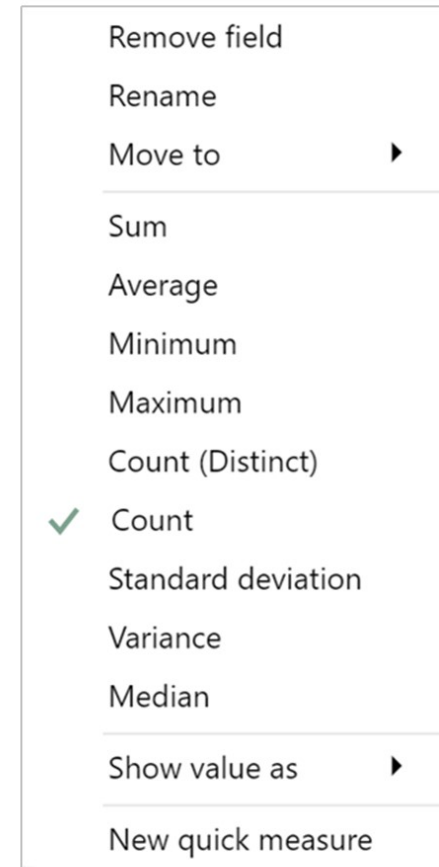
Add Visuals and Report Elements ► Fields Pane

- **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
  - Forecast<sup>1</sup>
  - Symmetry shading<sup>2</sup>

**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