Topic: Creating Basic Visualizations & Adding Interactivity to Visuals

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2. How do you add a slicer to a report?

ightharpoonup Go to the **Visualizations pane** ightharpoonup Slicer icon, then drag a field (e.g., *Quarter*) into the slicer's *Field* well.

3. What is the difference between a bar chart and a column chart?

Bar chart displays data horizontally, while a column chart displays it vertically. They both show comparisons, just in different orientations.

4. How do you change the color of a visual background?

Select the visual \rightarrow open the **Format pane** (paint roller icon) \rightarrow go to **Visual** > **Background** \rightarrow turn it on and choose a color.

5. What does "drill-down" mean in a visual?

It allows users to **explore data hierarchically**, e.g., clicking on a region to see data for products or quarters within that region.

6. Create a bar chart showing SalesAmount by Region.

→ Visual type: **Bar chart** Fields:

• $Axis \rightarrow Region$

• Values → SalesAmount

7. Add a slicer for Quarter to filter all visuals on the page.

→ Add Slicer visual → Field: Quarter → then click "Sync slicers" in the View tab to apply it across all pages.

- 8. Format the bar chart to show data labels.
- Select the bar chart \rightarrow Format pane \rightarrow Data labels \rightarrow On \rightarrow adjust font/color as desired.
- 9. Use a line chart to show SalesAmount trends over Quarter.
- → Visual: **Line chart**
 - Axis → Quarter
 - Values → SalesAmount
- 10. Add a tooltip to display Product details when hovering over bars.
- ightharpoonup Create a **Tooltip page**, add Product details, then enable **Tooltip** under *Format* ightharpoonup *General* ightharpoonup *Tooltip* on your main chart.
- 11. Sync slicers across multiple report pages.
- Go to View \rightarrow Sync slicers pane \rightarrow turn on "Sync" and "Visible" for the same slicer across all pages.
- 12. Create a custom visual with dynamic measure selection (e.g., Sales vs. Profit).
- Create a **Measure Selector** table (Sales, Profit).
- → Write DAX:

```
SelectedMetric :=
SWITCH(
    SELECTEDVALUE(MeasureSelector[Measure]),
    "Sales", SUM(Sales[SalesAmount]),
    "Profit", SUM(Sales[Profit])
)
```

Then use this measure in visuals.

- 13. Implement a hierarchy for Region > Product > Quarter drill-down.
- In the Data view, drag Product and Quarter fields under Region to create a hierarchy. Enable Drill Down on the visual to navigate through levels.

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Place two visuals in the same spot \rightarrow Create **Bookmark A** (show first visual, hide second) and **Bookmark B** (reverse) \rightarrow Add **Buttons** to toggle.

15. Optimize a slow-rendering report with 10+ visuals.

- → Reduce visual count per page
- ☑ Disable unnecessary interactions
- **☑** Use aggregated data tables
- Avoid using too many complex DAX measures
- **☑** Enable **Performance Analyzer** to detect slow visuals