

■ Data Visualization - Interview Revision Sheet

Graph	Definition	When to Use	One-liner
Line Graph	Data points connected by lines.	Show trends over time.	Trends over time.
Bar Graph	Rectangular bars comparing categories.	Compare discrete categories.	Compare categories.
Column Chart	Vertical bar chart.	Compare across fewer categories.	Vertical comparison.
Area Chart	Line chart with filled area.	Show trend + volume.	Trend with volume.
Pie Chart	Circle divided into slices.	Show percentage share.	Part-to-whole.
Scatter Chart	Plots (x,y) points.	Show relationships/correlation.	Reveal correlation.
Bubble Chart	Scatter with bubble size.	Compare 3D data.	Size adds dimension.
Map / Filled Map	Geographical data chart.	Geo-spatial analysis.	Data on maps.
Tree Map	Nested rectangles sized by value.	Show hierarchy & proportions.	Hierarchy by size.
Funnel Chart	Stage-wise decreasing chart.	Conversion/attribution analysis.	Show drop-offs.
Gauge Chart	Dial-like chart.	Progress vs. goal.	Track progress.
KPI	Single metric visualization.	Show critical business metric.	Quick KPI view.
Waterfall Chart	Step-by-step change visualization.	Show contributions to change.	Explains step change.
Histogram	Distribution of continuous data.	Distribution analysis.	Frequency of ranges.
Heatmap	Matrix with color intensity.	Show correlations/patterns.	Color shows intensity.
Sparkline	Mini inline chart.	Quick trends in small space.	Tiny trend summary.