

# 1. Bar Graphs

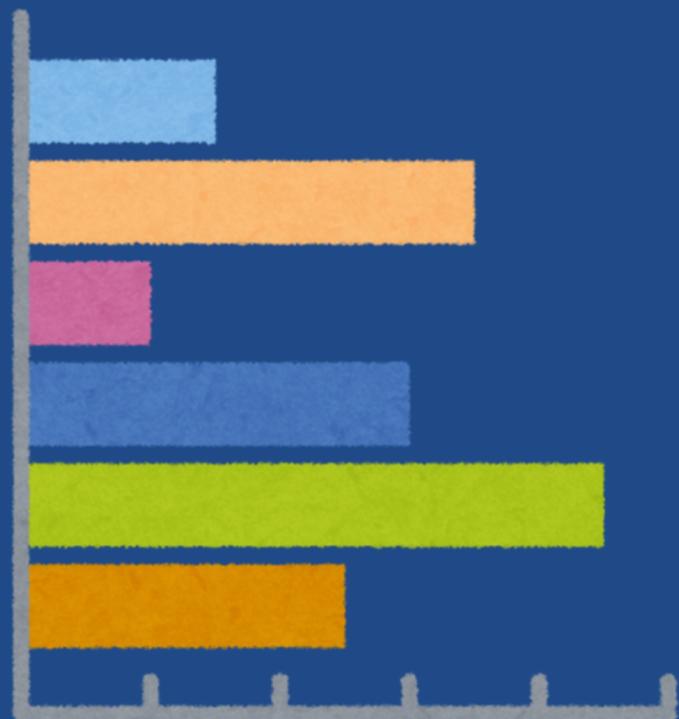
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When to Use?

**When comparing values across different categories, such as sales by region or survey responses by category**

Examples:

**Comparing sales figures across different regions.**



## 2.Column Chart

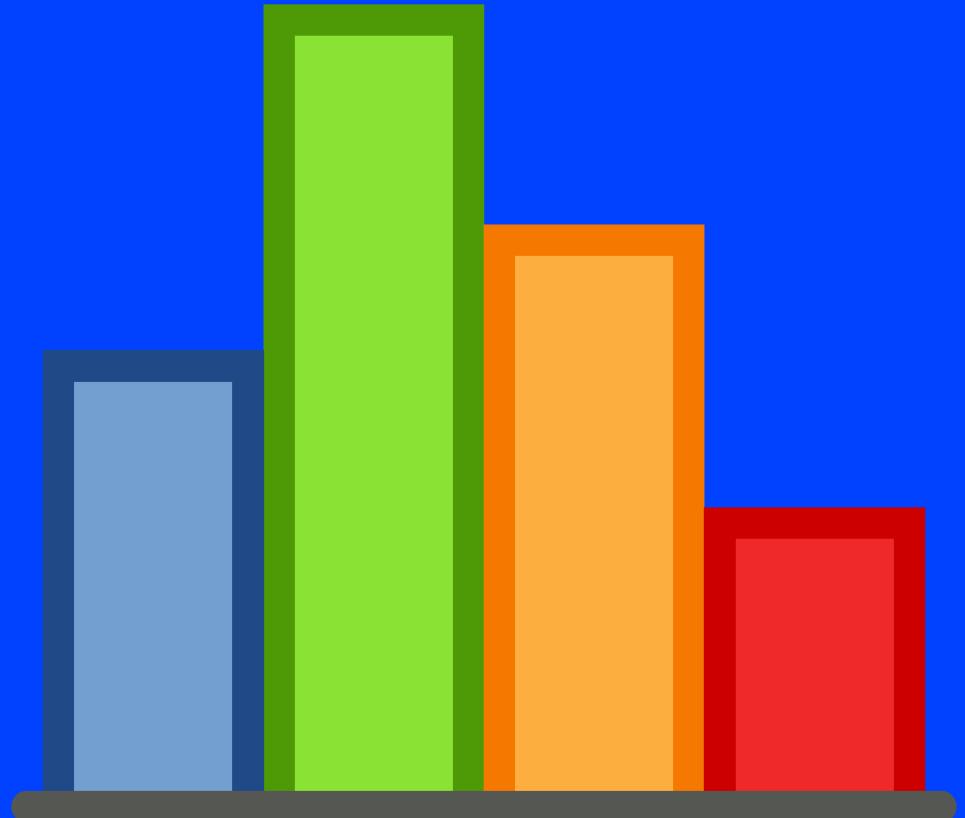
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When to Use?

**When comparing data over time, such as monthly revenue or quarterly performance.**

Examples:

**Displaying monthly revenue over the course of a year**



# 3. Line Chart

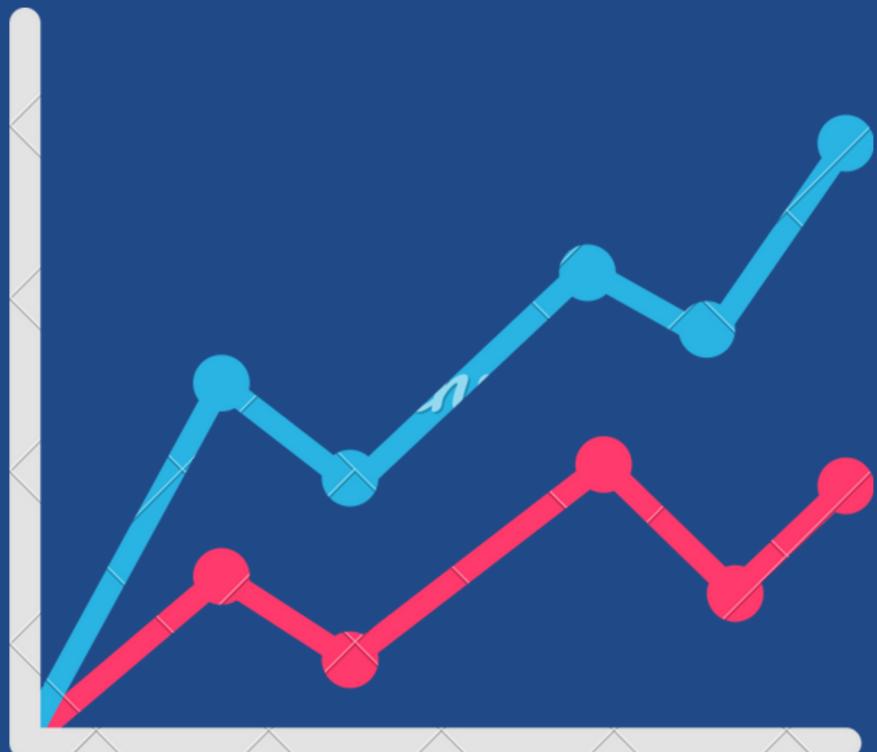
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When to Use?

When visualizing trend over time, Such as tracking website & stock prices

Examples:

Displaying monthly revenue over the course of a year



# 4. Area Chart

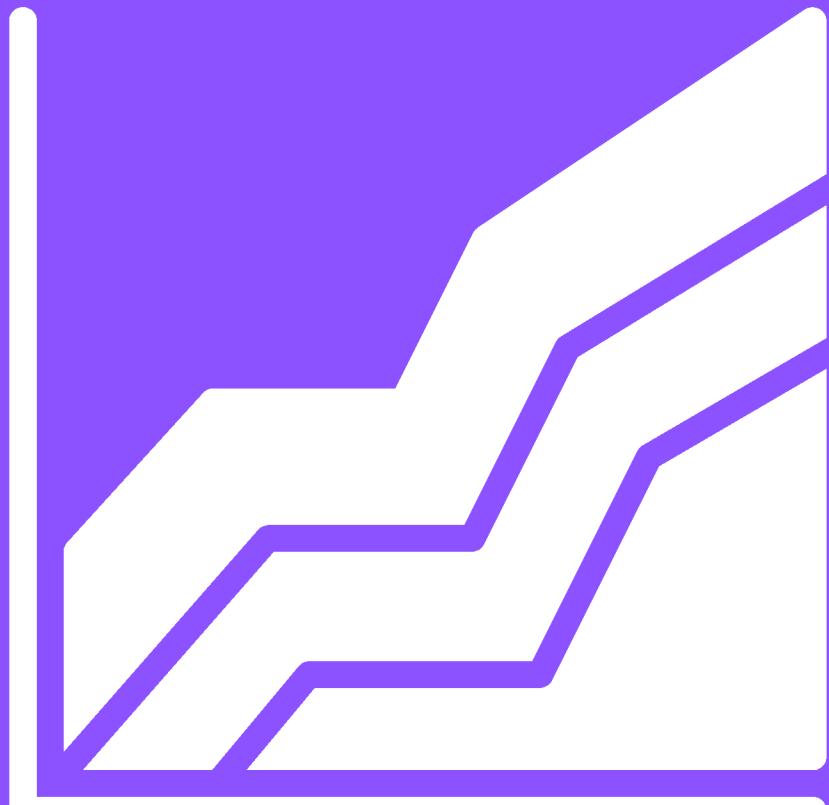
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When to Use?

**When showing cumulative values over time to illustrate the total growth, such as cumulative sales or employment contributions.**

Examples:

**Visualizing cumulative sales over time to show growth.**



# 5.Pie Chart

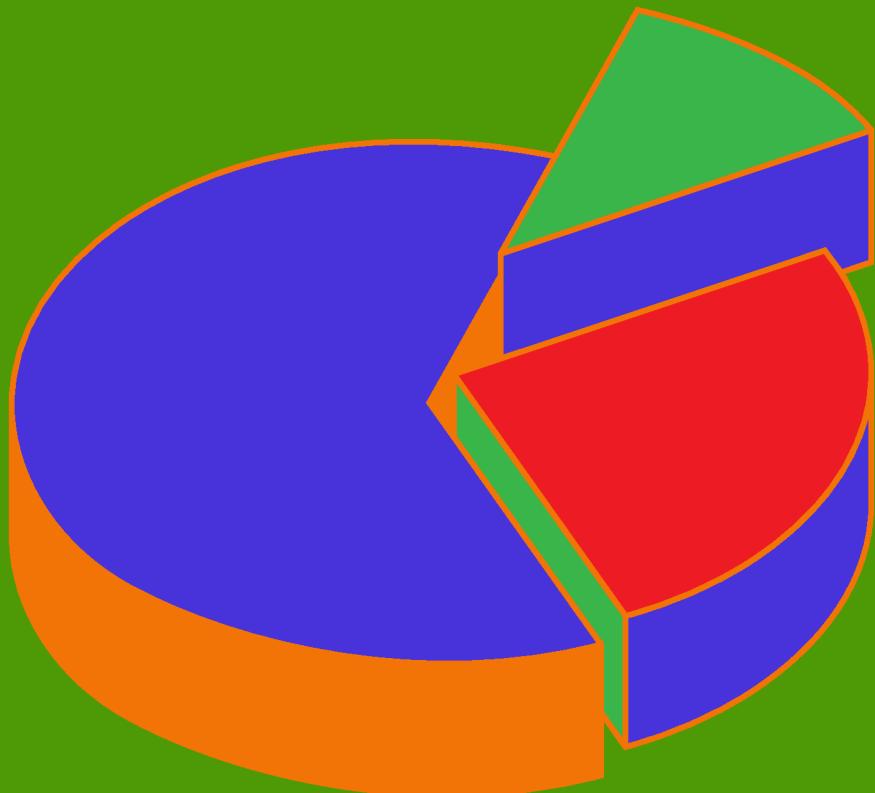
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When to Use?

**When displaying proportions of a whole, such as market share or budget allocation**

Examples:

**Showing the market share of different products.**



# 6. Donut Chart

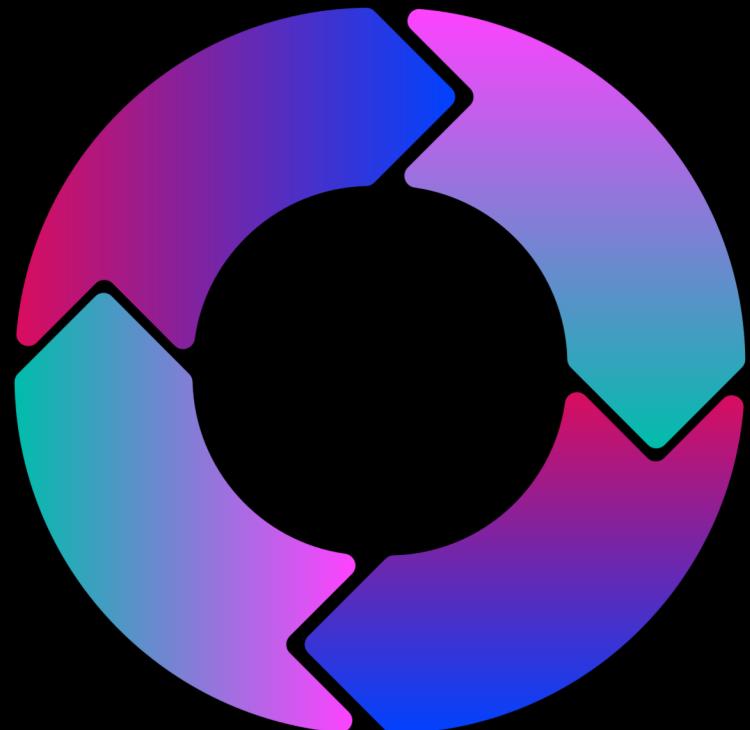
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When to Use?

**When showing proportions with an additional ability to add more data in the center, like a breakdown of budget allocation.**

Examples:

Displaying the percentage distribution of customer demographics.



# 7.Scatter Chart

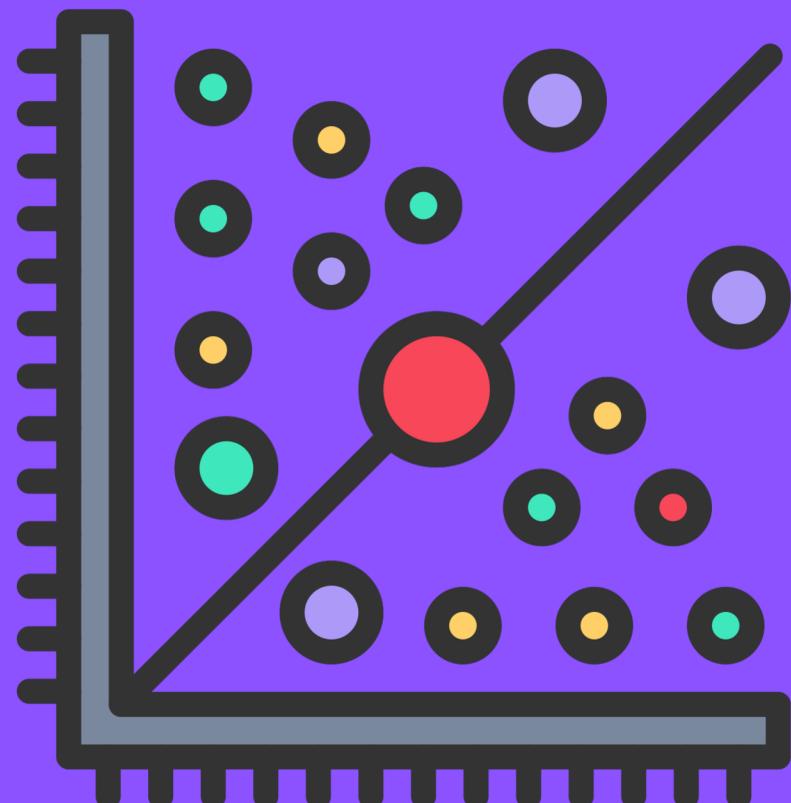
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When to Use?

**When analyzing relationships between two variables, such as advertising spend versus sales revenue.**

Examples:

Exploring the relationship between advertising spend and sales revenue



# 8. Bubble Chart

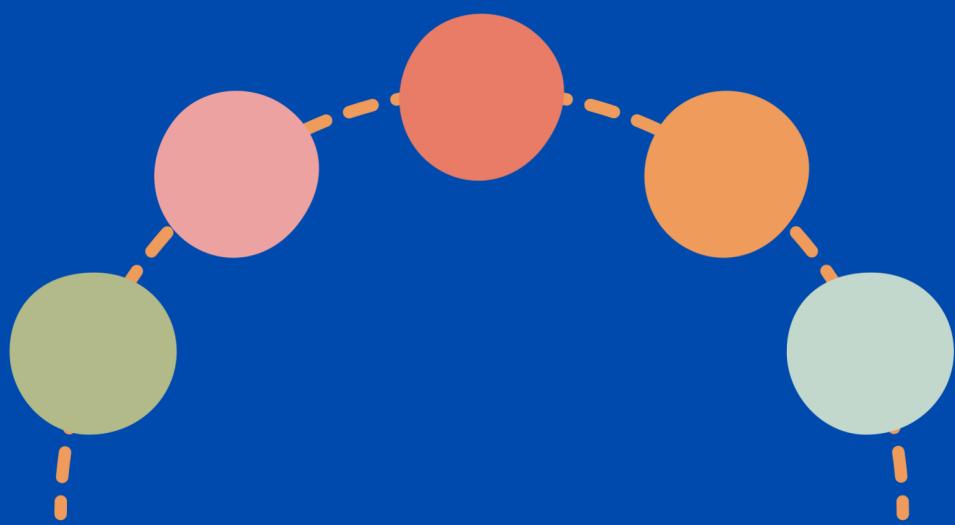
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When to Use?

**When comparing three variables,  
such as product sales, profit, and  
market size**

Examples:

Comparing product performance by sales, profit, and market size.



# 9. Basic Map

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When to Use?

**When plotting geographic data points, such as customer locations or store sites.**

Examples:

Plotting customer locations to visualize geographic distribution.



# 10.Filled Map

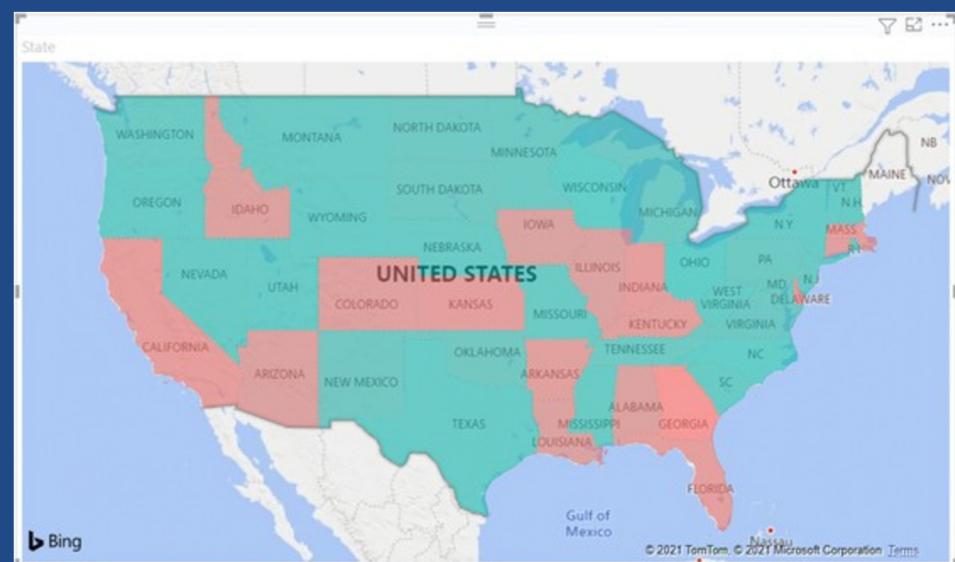
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When to Use?

**When displaying data over geographic areas, such as sales performance by state or country.**

Examples:

**Showing sales performance by country or region.**



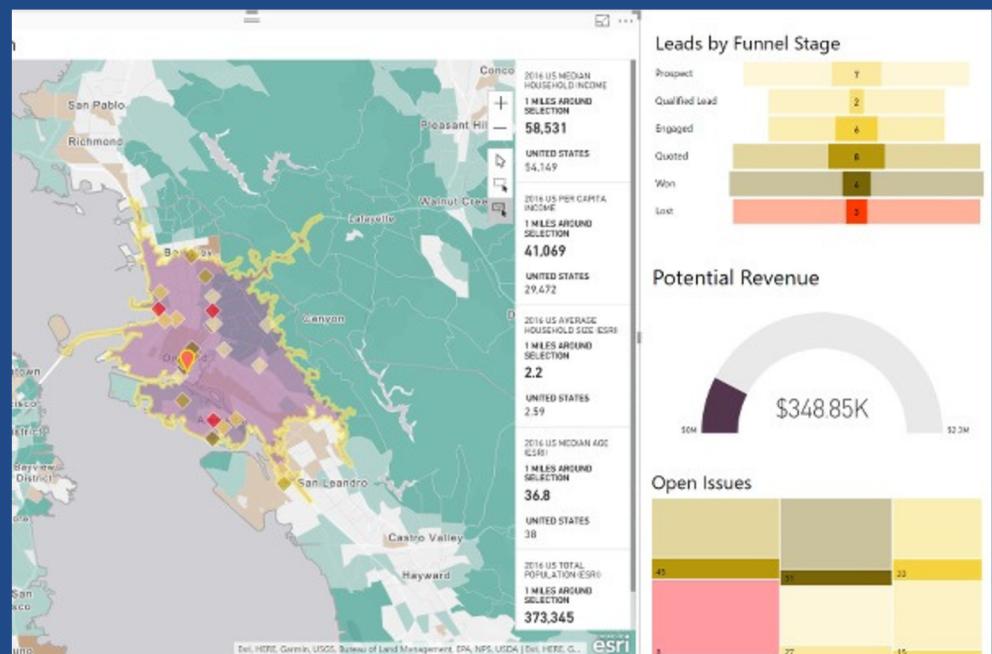
# 11.ArcGIS Map

When to Use?

When you need advanced geographic features and spatial analysis, like analyzing traffic incidents or demographic data.

Examples:

Analyzing spatial data with advanced geographic features



# 12. Tree-Map

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When to Use?

**When displaying hierarchical data in a compact format, such as sales by product category.**

Examples:

Analyzing spatial data with advanced geographic features



# 13.Funnel Chart

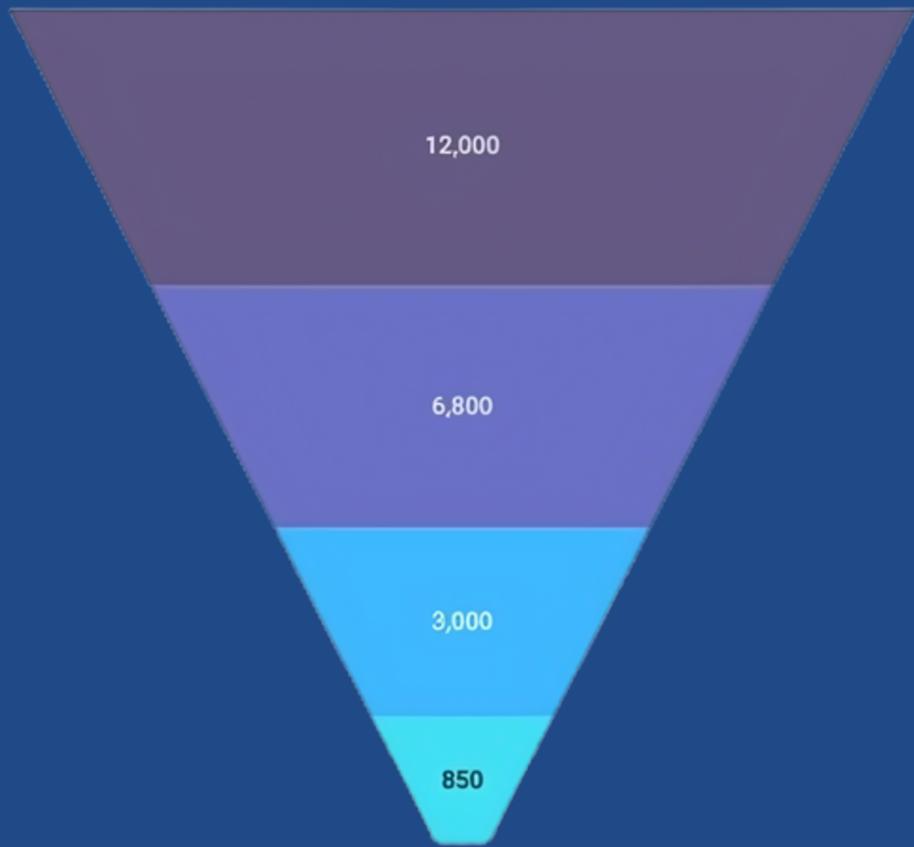
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When to Use?

**Visualizing stages in a sales process, from lead generation to closing**

Examples:

Visualizing stages in a sales process, from lead generation to closing.



# 14. Gauge

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When to Use?

**When showing progress toward a specific goal, such as sales targets or performance metrics.**

Examples:

Showing progress toward a sales target.



# 15.KPI

## (Key Performance Indicator)

When to Use?

**When displaying a key metric compared to a goal, such as monthly sales versus target.**

Examples:

Displaying a key metric like monthly sales compared to a goal.



# 16.Card

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When to Use?

**When highlighting a single important figure, such as total revenue or the number of new customers.**

Examples:

**Highlighting a single important figure, such as total revenue.**



# 17. Multi-Row Card

When to Use?

When showing multiple key metrics in a compact format, like sales, profit, and expenses.

Examples:

Displaying multiple key metrics, such as sales, profit, and expenses.

The screenshot shows the Power BI visualizations pane on the left and the fields pane on the right. In the visualizations pane, there is a 'Employee salary and bonus' card with five rows of data. Each row contains two columns: 'Sum of Salary' and 'Sum of Bonus'. The names listed are Arushi, Gautam, Radha, Ram, and Sita. In the fields pane, under the 'General' tab, there is an 'Alt text' section which is highlighted with a red border. The alt text field contains the text 'this is a chart'.

Employee	Sum of Salary	Sum of Bonus
Arushi	50000	20000
Gautam	40000	20000
Radha	70000	2500
Ram	40000	3600
Sita		

# 18.Table

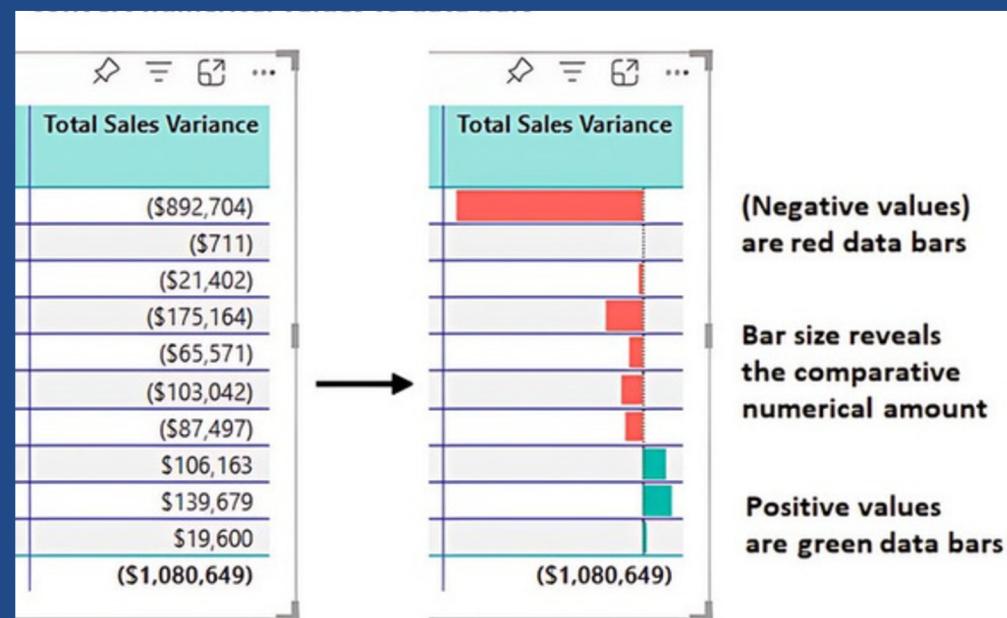
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When to Use?

**When displaying detailed data in a tabular format, such as a list of transactions or product inventory**

Examples:

Presenting detailed sales data in a tabular format.



# 19.Matrix

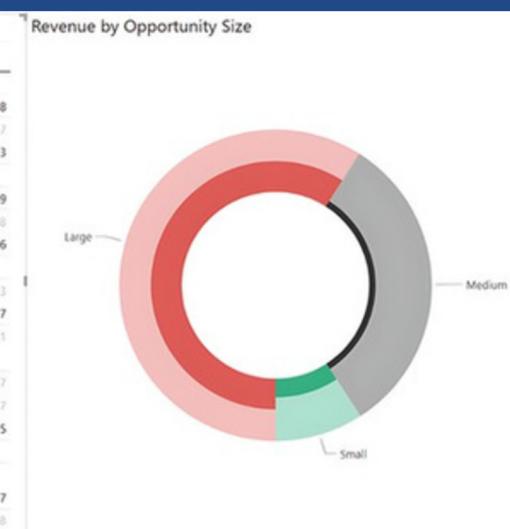
## When to Use?

**When you need to show data with multiple levels of categorization, similar to a pivot table, like financial performance by region and department.**

## Examples:

Showing financial data with row and column grouping, similar to a pivot table.

Region	Central		West		
	Sales Stage	Opportunity Count	Revenue	Opportunity Count	Revenue
<b>Lead</b>	Small	26	\$22,907,676	11	\$11,889,018
	Medium	25	\$90,249,147	18	\$72,871,697
	Large	40	\$321,876,492	18	\$149,636,713
<b>Qualify</b>	Small	10	\$11,550,016	5	\$5,695,989
	Medium	12	\$48,820,525	8	\$23,018,908
	Large	7	\$51,344,920	2	\$13,727,406
<b>Solution</b>	Small	13	\$12,771,741	7	\$7,155,493
	Medium	9	\$38,048,946	4	\$16,363,417
	Large	7	\$48,923,102	4	\$29,922,591
<b>Proposal</b>	Small	8	\$13,095,186	3	\$3,720,287
	Medium	4	\$15,283,161	5	\$21,456,937
	Large	2	\$18,344,522	2	\$17,855,445
<b>Finalize</b>	Small	1	\$1,788,307		
	Medium	2	\$8,974,009	2	\$7,926,517
	Large	2	\$12,539,930	2	\$13,249,668



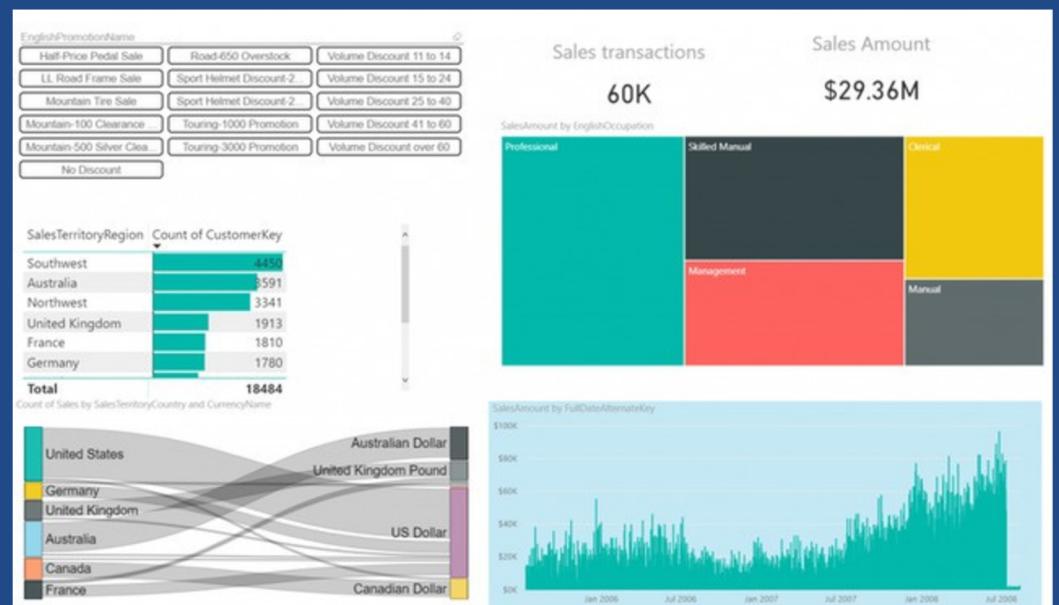
# 20.Slicer

When to Use?

**When providing interactive filtering options for your report, such as filtering by date, category, or region.**

Examples:

Providing interactive filters to refine report data by date, category, or region



# 21. Waterfall Chart

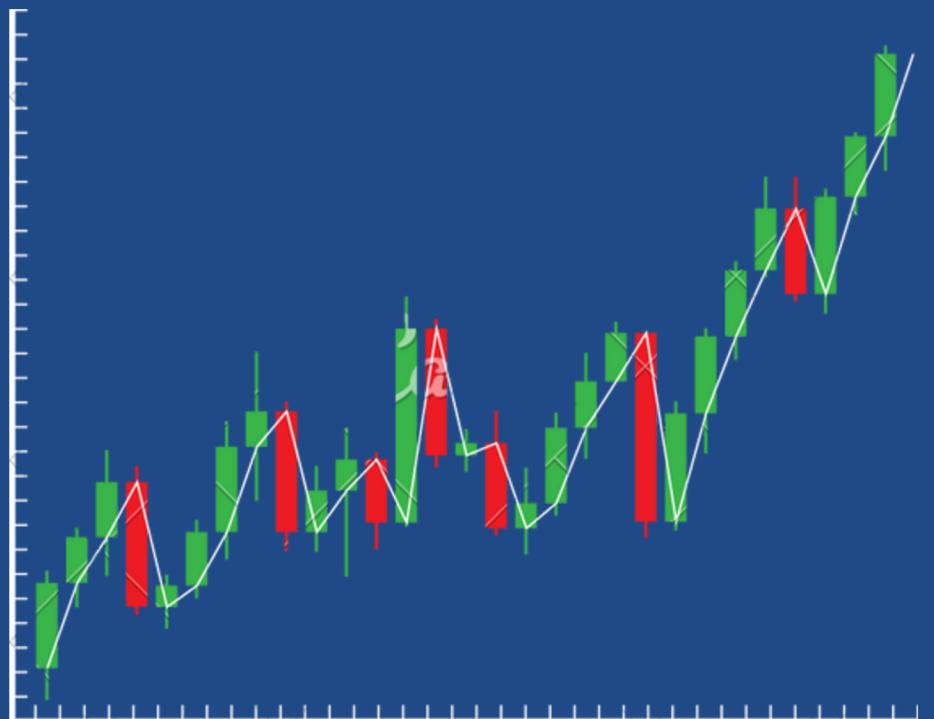
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When to Use?

**When showing the cumulative effect of sequential positive or negative values, such as profit changes over time.**

Examples:

Showing the incremental impact of individual components on a total figure, such as profit.



# 22.Combo Chart

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When to Use?

**When combining two different types of data in one visual, like sales volume and profit margin.**

Examples:

Combining revenue and profit margin data in one visual.



# 23.Ribbon Chart

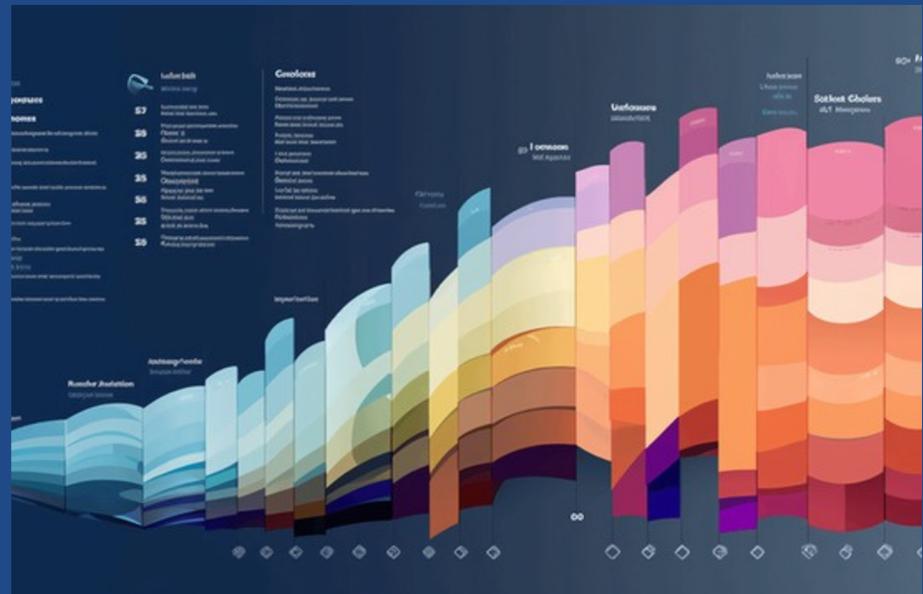
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When to Use?

**When showing rank changes over time,  
such as product rankings or market  
positions**

Examples:

Showing rank  
changes of  
products over  
time.



# 24. Decomposition Tree

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When to Use?

When you need to drill down into data across multiple dimensions to understand contributing factors, such as analyzing sales by region, product, and time.

Examples:

Drilling down into sales data to understand contributing factors.



# 25. Histogram

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When to Use?

**When showing the distribution of a single variable, such as customer ages or transaction amounts.**

Examples:

Displaying the distribution of customer ages.



# 26. Heatmap

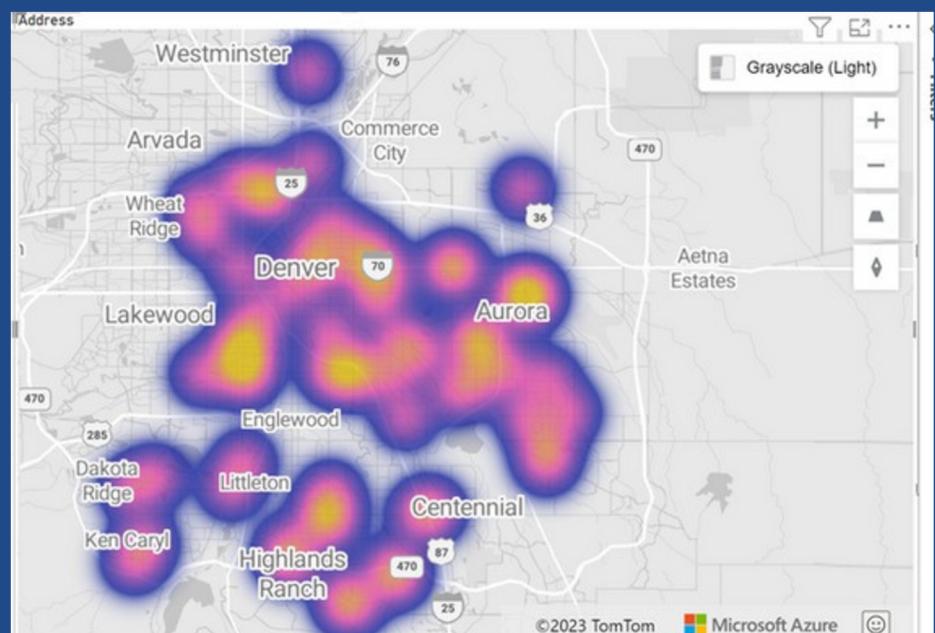
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When to Use?

**When visualizing data density or intensity, such as website click activity or sales performance across regions.**

Examples:

**Showing data density, such as website click activity.**



# 27. Sparkline

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When to Use?

**When showing trends in a small amount of space, often within tables or matrices, like monthly revenue trends.**

Examples:

Adding mini trendlines to a table to show sales trends per product.

COGS  
\$18.04M



Discounts  
\$1.78M



Gross Sales  
\$22.73M



# 28.Q&A Visual

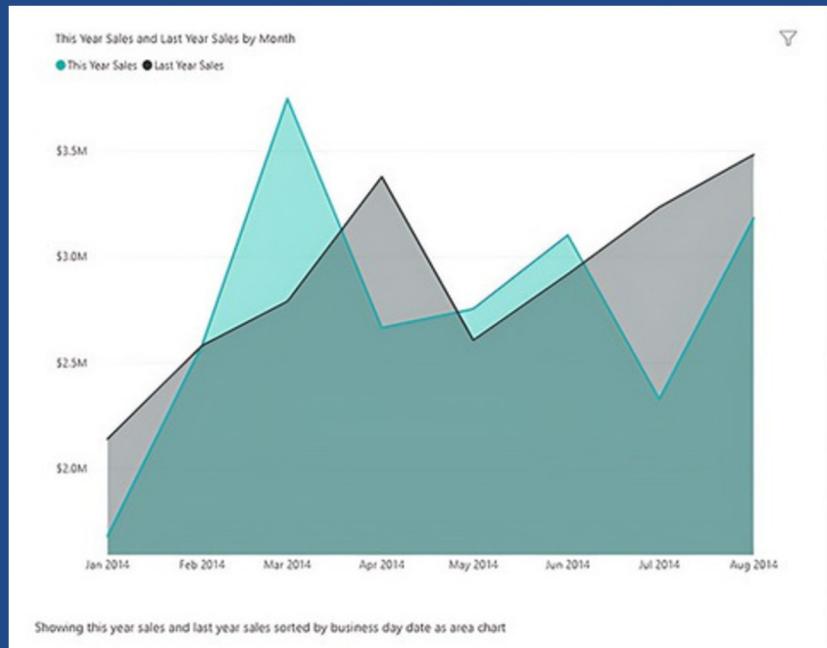
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When to Use?

**When allowing users to ask natural language questions and get visual answers, useful for ad-hoc data exploration.**

Examples:

Allowing users to type natural language questions and get visuals based on data.



# 29.R-Visual

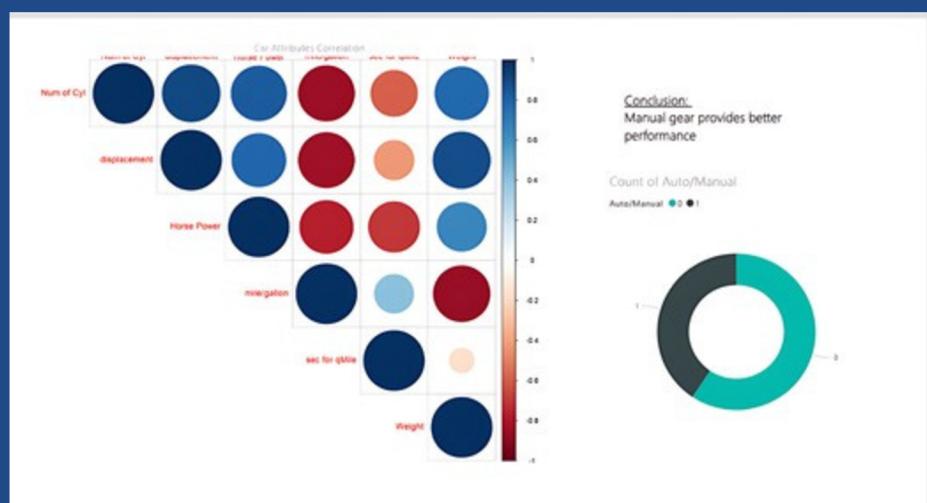
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When to Use?

**When you need to create custom data visualizations using R scripts for advanced analytics or statistical charts.**

Examples:

Creating custom data visualizations using R scripts for advanced analytics



# 30. Python Visual

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When to Use?

**When using Python scripts to generate complex visuals or for advanced data analysis, such as machine learning model outputs or time series forecasting.**

Examples:

Using Python scripts to generate complex visuals or statistical charts.

