

# Data Visualization Cheat Sheet

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## Visualize Relationships

BAR CHART



It is useful to display the measure data that reflect negative values. On a bar chart, negative values, and the other corresponding value.

USE CASES

1. Volume of page searches by region
2. Market share revenue by product

GROUPED BAR



Are shown as a series for each, where the categories are placed on the x-axis. Measure differences over time, trends, or other data, such as sales, or together in value.

USE CASES

1. Brand market share
2. Profit margin by region

DOTS AND LINES



It is used to show the relationship between two different variables by using the dots that represent the data, separated from two different variables.

USE CASES

1. Display the relationship between time and platform acquisition
2. Show the relationship between sales and profit over a timeline

SCATTER PLOT



It helps to understand the relationship between two variables, and the scatter plot is connected with a line.

USE CASES

1. Comparing price index
2. Visualizing trends and events when analyzing the services

3D BAR CHART



3D bar charts show the data in the form of a cube. The values of the variables are represented by the x-axis and y-axis. The size of the cube represents the measure of the variable.

USE CASES

1. Advanced analysis (KPIs or Comparisons) in terms of sales performance
2. Relationship between the productivity, ROI per client, & acquisition cost

AREA CHART



A common visualization for comparing the most prominent value that exists in a set. This can be used to monitor the relationship between different words that exist together to capture a trend or the most commonly present word.

USE CASES

1. Top 100 user count by customer in customer service tools

## Capture a Trend

LINE CHART



The most common way to capture the trends over a period of time.

USE CASES

1. Revenue of IT over time
2. Energy consumption in kWh over time
3. Single website over time

AREA CHART



Capture multiple trends over time. Line charts include area allowing comparison of different units across a range.

USE CASES

1. Apple's iPhone sales over time
2. Japan's GDP/GDP growth over time
3. Amazon's Amazon price over time

BAR CHART



Show the trend changes over time and can be used to attract the attention of the audience to monitor the best changes across the trend.

USE CASES

1. Total sales over time
2. Apple's profit over time

3D BAR CHART



Most commonly used variation of area charts, the bar chart is a three-dimensional view of a bar chart used to compare the performance of a number of categories.

USE CASES

1. Apple's sales over time by region
2. Total revenue over time by country

PIE CHART



Structural version of a bar chart. It offers a clear view across and compares non-proportional values in relation to existing values.

USE CASES

1. Electricity consumption and CO2 emissions over time

## Part-to-whole Charts

PIE CHART



One of the most common ways to show part to whole data. It is used commonly with unit percentages.

USE CASES

1. Voting preference by age group
2. Market share of your services

DOUGHNUT CHART



The donut chart is a variation of the pie chart, the difference being it has a hole in the center for equality.

USE CASES

1. Annual IT market share
2. Monthly sales by channel

3D PIE CHART



3D pie chart has dimensional charts that are used to show the relationship between data points.

USE CASES

1. Average monthly temperature across the year
2. Expenditure with the highest amount of profits over time

3D GROUPED BAR



Bar to compare subcategories within categories. Use bar chart to compare percentages.

USE CASES

1. Quarterly sales per region
2. Total car sales by volume

3D BAR CHART



3D bar charts show data in perspective for the value being measured and can be used to compare hierarchical structured data.

USE CASES

1. Group sales count with categories
2. Stock price comparison to industry and company

## Visualize a flow

WATERFALL CHART



Useful for representing flow in systems. This flow can be any measurable quantity.

USE CASES

1. Energy flow between countries
2. Supply chain volume between warehouse

DOUGHNUT CHART

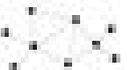


Useful for comparing weighted relationships or flows across nodes. Usually useful for highlighting the dominant or relationship.

USE CASES

1. Export between countries to illustrate import/export patterns
2. Loan flow volume between the largest countries

DOTS AND LINES



Often is a graph to connect different or multidimensional data. It is used to show different flows from different forms have relationship with each other.

USE CASES

1. How different account are connected worldwide
2. Loan market share growth across

## Capture Distributions

BAR CHART

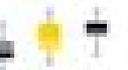


Show the distribution of a variable. Commonly, numerical data is shown as columns. The x-axis shows the range and the y-axis represents the frequency.

USE CASES

1. Distribution of salaries by an organization
2. Distribution of heights in one cohort

BOX PLOT



Show the distribution of a variable using 5 the summary statistics: minimum, first quartile, median, third quartile, and maximum.

USE CASES

1. Gas efficiency of vehicles
2. Time spent reading across readers

3D BAR CHART



A variation of the bar chart. It also shows the full distribution of the data alongside summary statistics.

USE CASES

1. Time spent in restaurants across age groups
2. Length of an effect by dose

AREA CHART



Visualize a distribution by using something in area. Consider distributions and better capture the distribution shape of the data.

USE CASES

1. Distribution of price of home listings
2. Comparing fully covered to customer segment

BAR



Charts are great for showing and tracking data in dashboard or presentations.

USE CASES

1. Revenue to track of a sales department
2. Total sign-ups after a promotion

3D BAR CHART



Bar to be used in small dashboards. It is better to be used in a table.

USE CASES

1. Annual executive performance
2. Registrations per customer

DOUGHNUT CHART



This chart is often used in executive dashboards to report to show progress KPIs.

USE CASES

1. KPI scores
2. Revenue vs target

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**M Tight**



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