

# Core Principles of Data Visualization

## Show the data

People read graphs in a research report, article, or blog to understand the story being told. The data is the most important part of the graph and should be presented in the clearest way possible. But that does not mean that all of the data must be shown—instead, many graphs show too much.



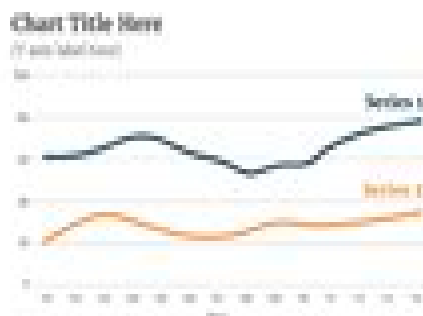
## Reduce the clutter

Chart clutter, from unnecessary or distracting visual elements, will tend to reduce effectiveness. Clutter comes in the form of dark or heavy gridlines, unnecessary tick marks, labels, or text, unnecessary lines or patterns, unnecessary shading and gradients, and unnecessary dimensions. For often graphs are cluttered or filled problems.



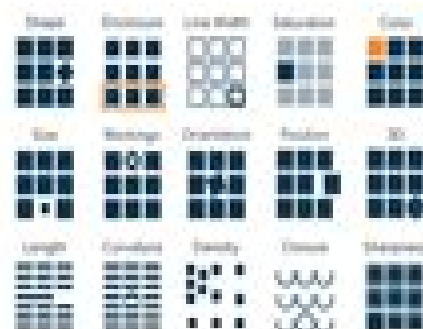
## Integrate the text and the graph

Standard research reports often suffer from the **slide-show effect**, in which the writer separates the text completely that appear in the graph. A better model is one in which visualizations are constructed to complement the text and at the same time to contain enough information to stand alone. In a simple example, legends that define or explain a line, bar, or point are often placed far from the content of the graph—all to the right or below the graph. Integrated legends—right below the title, directly on the chart, or at the end of a line—are more accessible.



## Preattentive Processing

Effective data visualization taps into the brain's **preattentive visual processing**. Because our eyes detect a limited set of visual characteristics (such as shape and contrast), we routinely notice characteristics of an object and automatically perceive them as comprising an image. Preattentive processing refers to the cognitive operations that can be performed prior to focusing attention on any particular region of an image. In other words, it's the stuff you notice right away.



# Core Principles of Data Visualization

## Audience



Always consider your audience—whether they need a chart, written report, a more in-depth paper, or an online explanatory data tool.

## Include annotation



Add explanatory text to help the reader understand how to read or use the visualization (if necessary) and also to guide them through the content.

## Use pie charts with care



We are not very good at discerning quantities from the slices of the pie chart. Other chart types—for example, bars, stacked bars, terraces, or slope charts—may be a better choice.

## Avoid 3D



Using 3D when you don't have a third variable will usually distort the perception of the data and should thus be avoided.

## Start bar and column charts at zero



Bar and column charts that do not start at zero emphasize the differences between the values. For small changes in quantities, consider visualizing the difference or the change in the values.

## Make labels easy to read



When applicable, rotate bar and column charts to make the labels horizontal. If possible, make vertical axis labels horizontal, possibly below the title. In general, make labels clear, concise, and easy for your reader to understand.

## Try small multiples



Breaking up a complex and chart into smaller charts can be an effective way to visualize your data.

## Use maps carefully



Use maps carefully, always being sure it is the geographic point you are trying to make. Column and bar charts, for example, are often better at enabling comparisons between geographic units.

## Color and font considerations

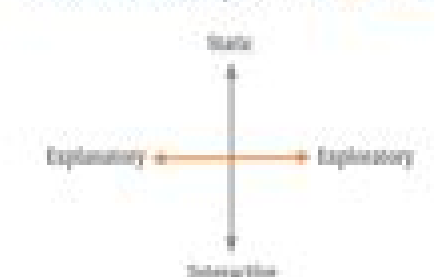


Avoid default colors and fonts—they all look the same and don't stand out.

Consider color blindness—about 1% of people (mostly men) have some form of color blindness.

Avoid the rainbow color palette—it doesn't map to our number systems and there is no logical ordering.

## Visualization Mapping: Form and Function



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