

Gestalt principles of visual perception, or how the brain processes information

We assume that objects are related because of:

Proximity: being close together.

Similarity: consisting of the same shape,

color, orientation or size.

Enclosure: being inside a 'box'.

Closure: Perceiving a set of different elements as a single shape, even though

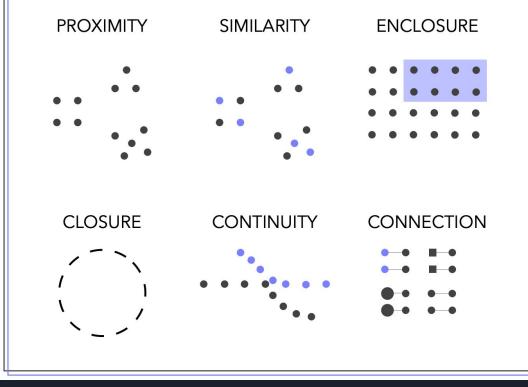
parts may be missing.

Continuity: creating a path where one may

not exist.

Connection: being connected together.

GESTALT PRINCIPLES OF VISUAL PERCEPTION



Cognitive load

Cognitive load refers to the mental effort required to learn new information. Since the human brain does not have an infinite amount of this space, more information than necessary would only lead to confusion and would ultimately result in the information not going in.

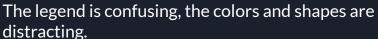
What can hinder a perfect flow of information?

Clutter. Clutter are visual elements that take up space but don't increase any understanding. It makes the visuals appear more complicated than necessary.

Examples of clutter:

Non-strategic use of contrast

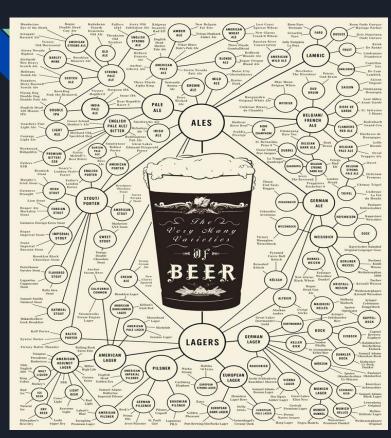






The data is arranged cohesively, and in order.

Lack of Visual order



Cluttered chart: data is a little over the place and needs to be explained to be read clearly, and is monochromatic.



Cleaned chart: The chart is properly aligned, a little bit of color is added for distinction between the values, and contents that are connected are next to one another.

Decluttering solutions!

Original Chart:

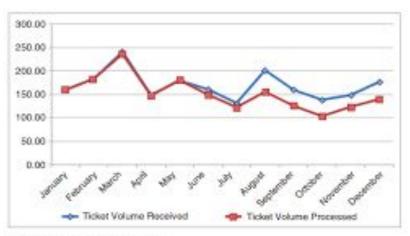


FIGURE 3.17 Original graph

- -Removing chart borders
- -Removing grid lines
- -Removing data markers
- -cleaning up axis labels
- -labeling values correctly and attaching them where they belong.
- -Using the same color for the same value.

Final chart:

Clean and organized, the data is clearly labeled, the white space is used to emphasize the information we need to see, the abbreviated months offer us a simple layout, and the chart is pristine.

