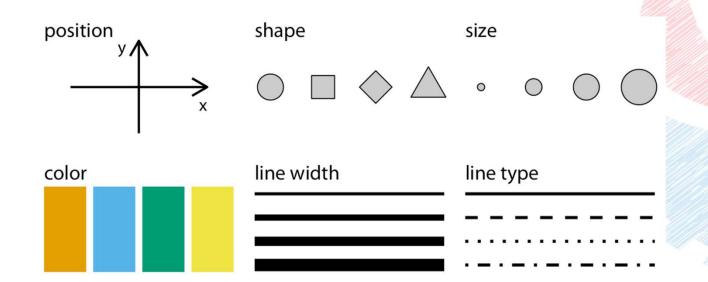


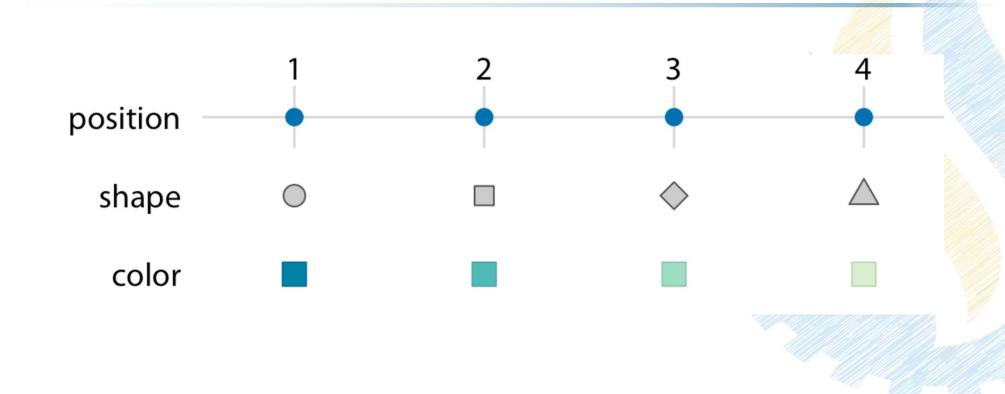
#### AESTHETICS AND TYPES OF DATA

# Shapes

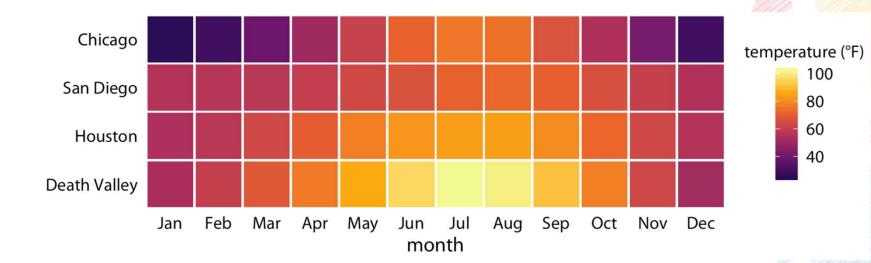




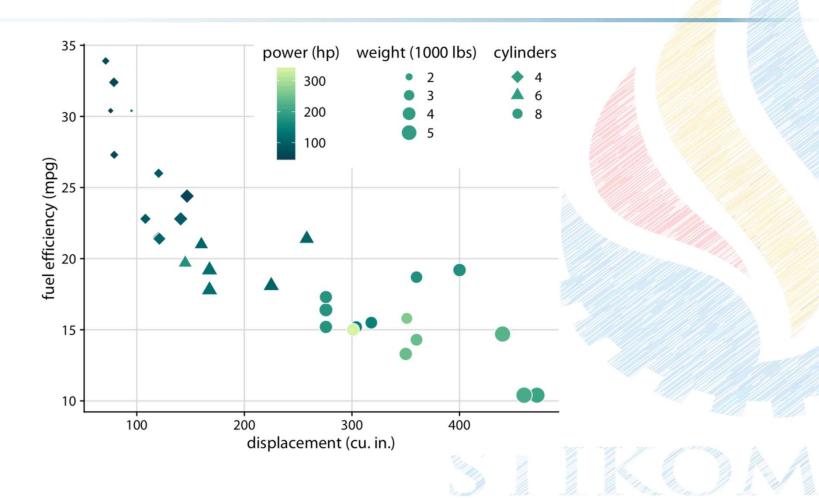
# SCALES MAP DATA VALUES ONTO AESTHETICS



STIKOM



STIKOM

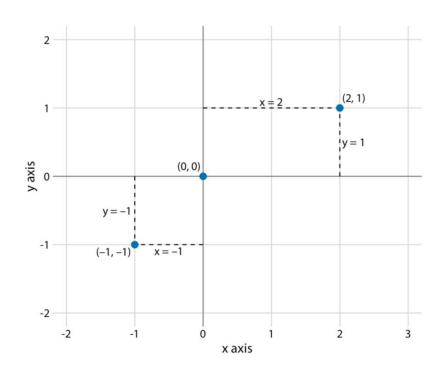


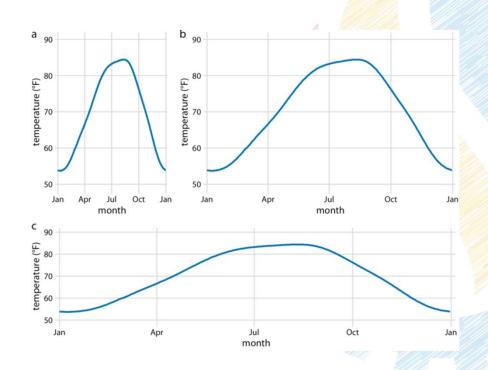
# COORDINATE SYSTEMS AND AXES - CARTESIAN COORDINATES

The most widely used coordinate system for data visualization is the 2D Cartesian coordinate system, where each location is uniquely specified by an x and a y value. The x and y axes run orthogonally to each other, and data values are placed in an even spacing along both axes

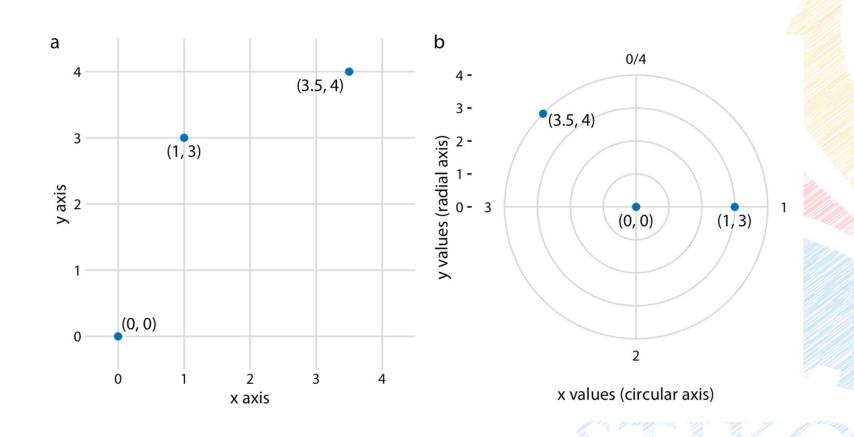
STIKOM

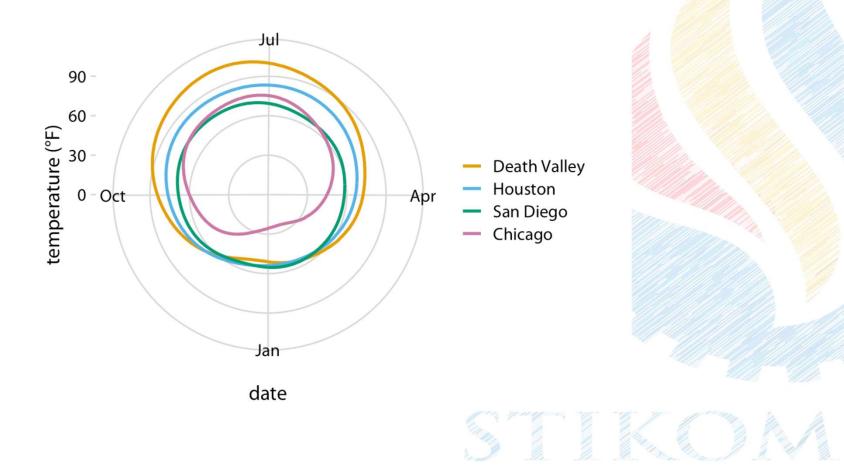
## SIMPLE CARTESIAN COORDINATE





### COORDINATE SYSTEMS WITH CURVED AXES

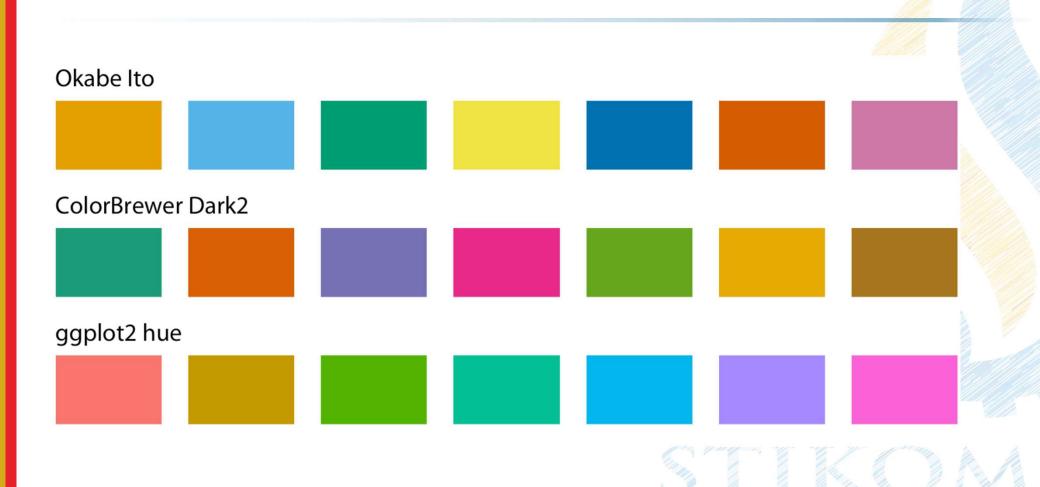


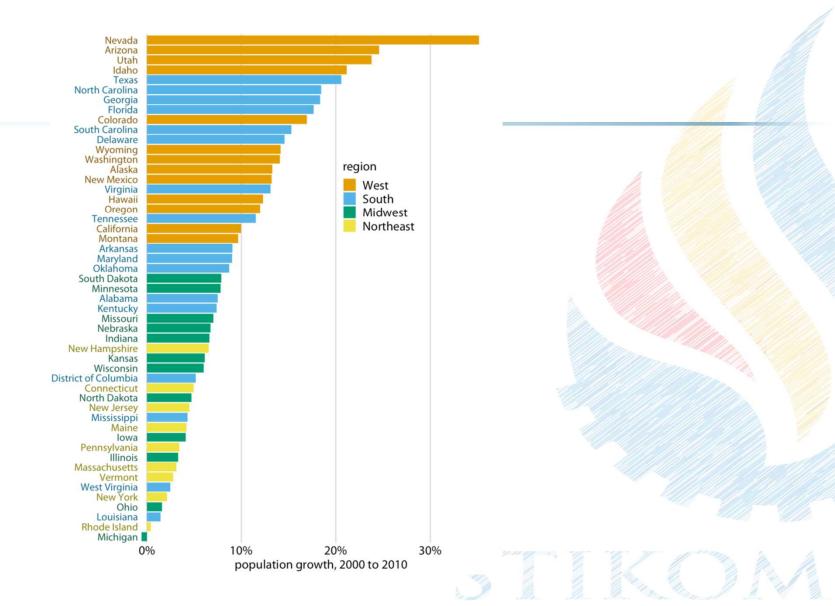


#### COLOR SCALES

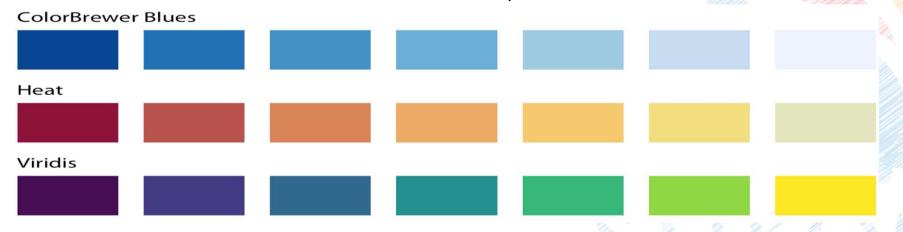
- Color to Represent Data Values: Color can also be used to represent quantitative data values, such as income, temperature, or speed. In this case, we use a sequential color scale. Such a scale contains a sequence of colors that clearly indicate which values are larger or smaller than which other ones, and how distant two specific values are from each other. The second point
- Example qualitative color scales.
  - The Okabe Ito scale is the default scale used throughout this book [Okabe and Ito 2008].
  - The ColorBrewer Dark2 scale is provided by the ColorBrewer project [Brewer 2017].
  - The ggplot2 hue scale is the default qualitative scale in the widely used plotting software ggplot2

# EXAMPLE QUALITATIVE COLOR SCALE



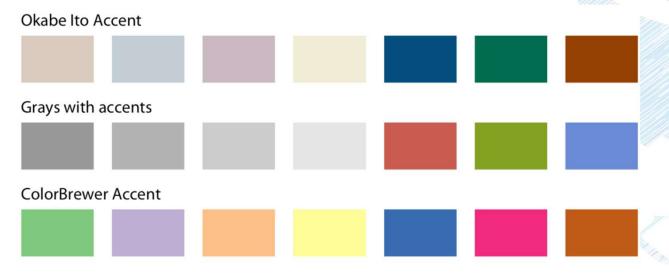


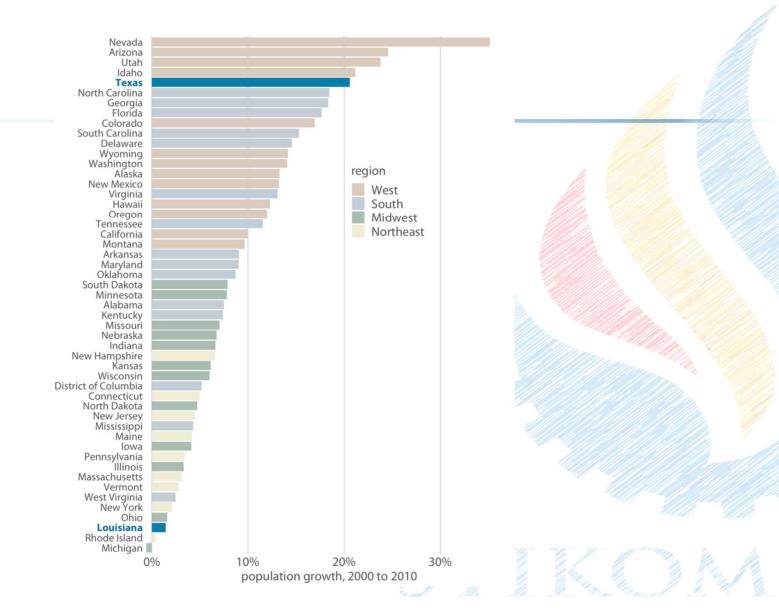
Sequential scales can be based on a single hue (e.g., from dark blue to light blue) or on multiple hues (e.g., from dark red to light yellow) (Figure 4-3). Multihue scales tend to follow color gradients that can be seen in the natural world, such as dark red, green, or blue to light yellow, or dark purple to light green. The reverse (e.g., dark yellow to light blue) looks unnatural and doesn't make a useful se quential scale.



#### COLOR AS A TOOL TO HIGHLIGHT

Color can also be an effective tool to highlight specific elements in the data. There may be specific categories or values in the dataset that carry key information about the story we want to tell, and we can strengthen the story by emphasizing the relevant figure elements to the reader.





#### SAMPLE IMPLEMENTATION

# Hidup Layak di Pulau Jawa

Survei ini menggunakan data-data UMK 2020 di seluruh Pulau Jawa dan Survei Biaya Hidup (2012) yang disesuaikan dengan Indeks Harga Konsumen (IHK) tiap tahun hingga tahun 2020.

https://louislugas.github.io/umk-sbh-jawa-map/index.html

