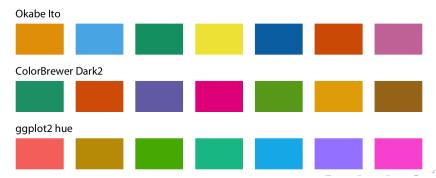
Fundamentals of Data Visualization

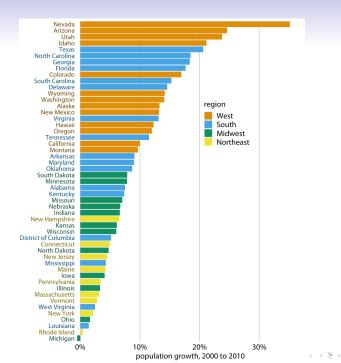
Chapter 4

April 25, 2023

Color as a tool to distinguish

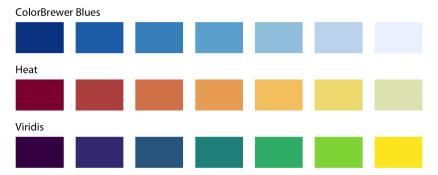
- Discrete items that do not have an intrinsic order.
 - coutries on a map
 - manufacturere of a product
- A finite set of specific colors chosen to:
- look clearly distinct from each other, but
- not stand out from each other, and
- not create the impression of an order.

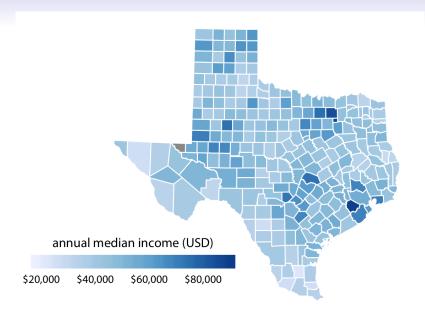




Color to represent data values

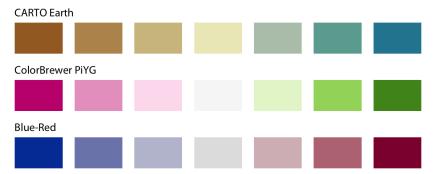
- Sequential color scale
- Which values are larger or smaller
- How distant the values are from each other
 - scale needs to be perceived to vary uniformly
- Can be based on single hue or multiple hues

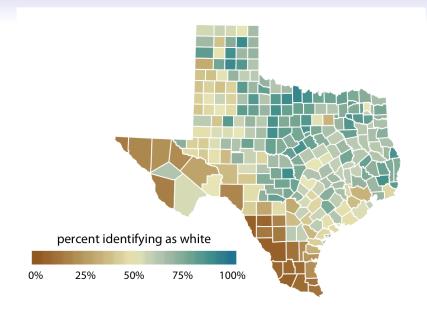




Color to represent deviation from norm

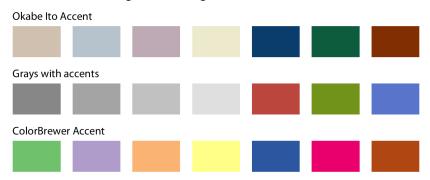
- Diverging color scale
- Neutral is usually a light color
- Two extremes are contrasting colors
- Extremes should be balanced in value

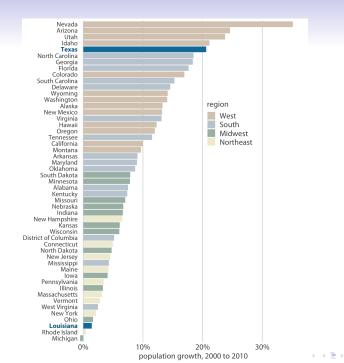




Color as a tool to highlight

- Some colors vividly stand out
- Accent color scales
 - a set of subdued colors
 - a matching set of stronger, darker, more saturated colors





Baseline colors should not compete for attention

- Pick drab colors
- Pick no color

