

Data Visualization

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Today we will get started thinking about Data Visualization. This is a good place to start to think about Data Wrangling.

Putting data into a usable form will be useful for making graphics from data.

A taxonomy for data graphics.

“... you must learn to taste before you can cook well.”

- ▶ Visual cues
- ▶ Coordinate systems
- ▶ Scale
- ▶ Context

Visual cues

- ▶ Position
- ▶ Length
- ▶ Angle
- ▶ Direction
- ▶ Shape
- ▶ Area
- ▶ Volume
- ▶ Shade
- ▶ Color

Coordinate systems

- ▶ Cartesian
- ▶ Polar
- ▶ Geographic

Scale

- ▶ Numeric
- ▶ Categorical
- ▶ Time

Context

- ▶ Meaning

Small multiples and layers

- ▶ small multiples
- ▶ layers
- ▶ animation

Stat. 651

In Stat. 651 we will expand on these ideas and discuss `ggplot2`.