


# Data Visualization: ggplot2

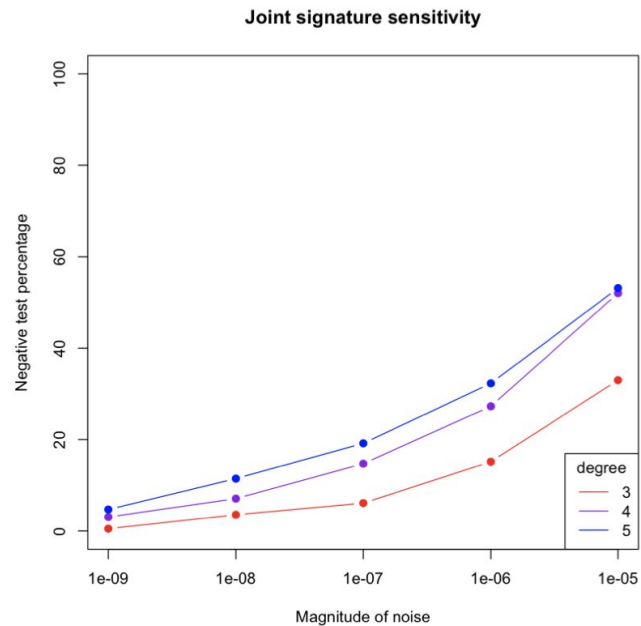
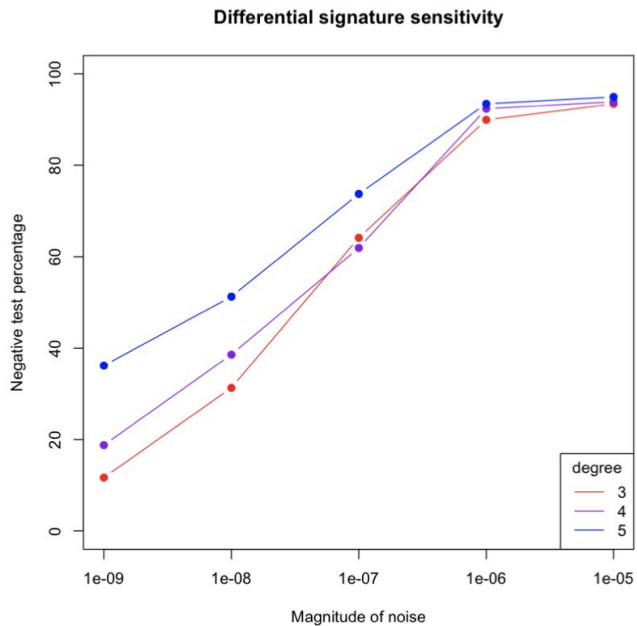
BSDS 100, Spring 2021  
Michael Ruddy

A dark blue diagonal gradient bar that starts from the bottom left and extends towards the top right, covering the lower half of the slide.

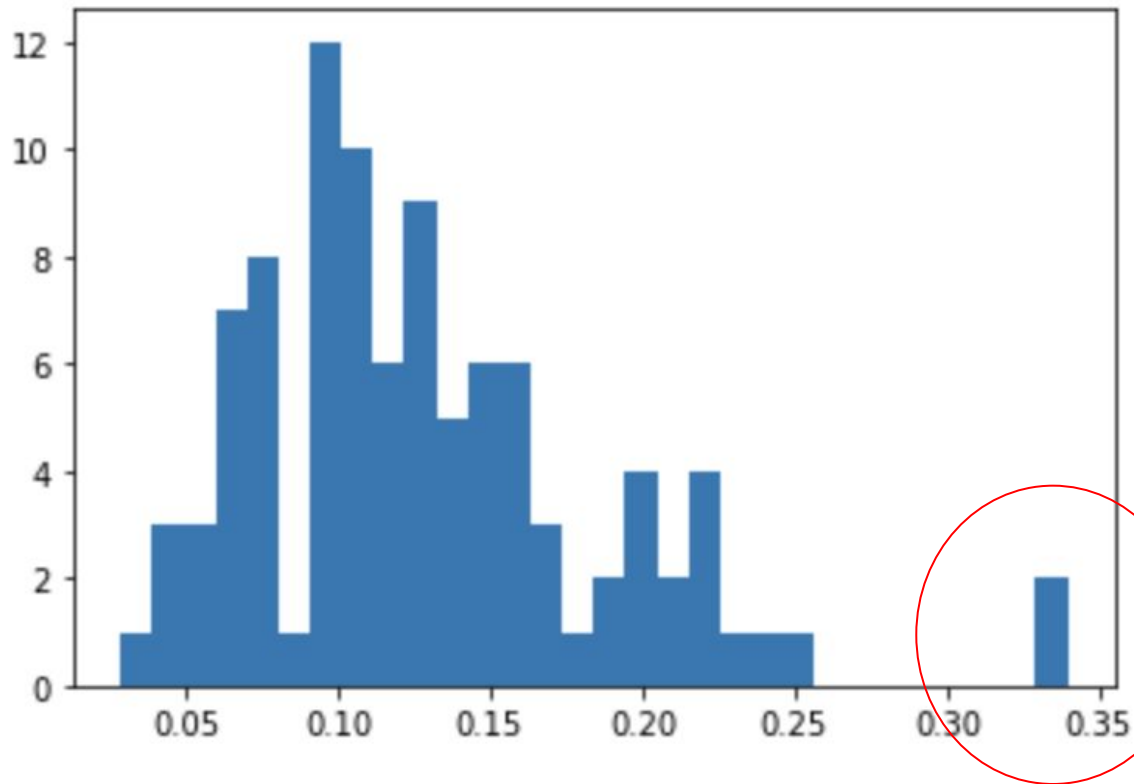
# Why visualize data?

- Falls under “Exploratory Data Analysis”
- Develop hypothesis about data
- Communicate and summarize data to others
- Quick, effective way to explore your data
- Sanity check!

# Why visualize data?

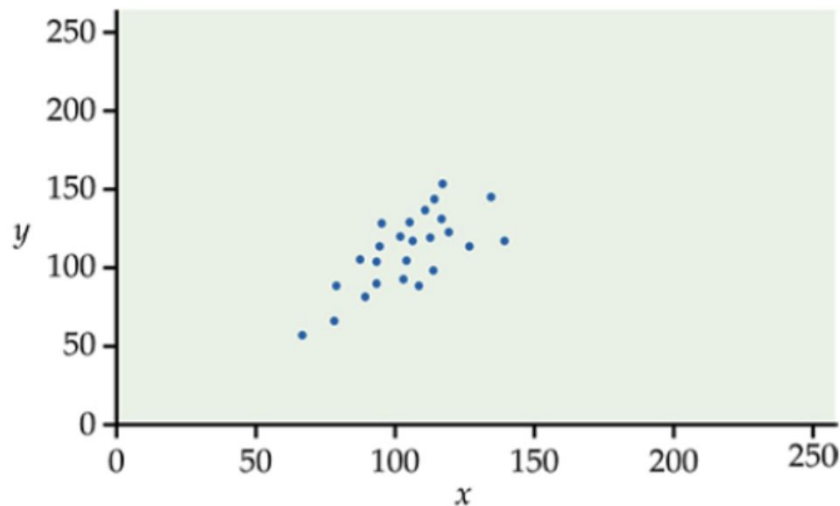
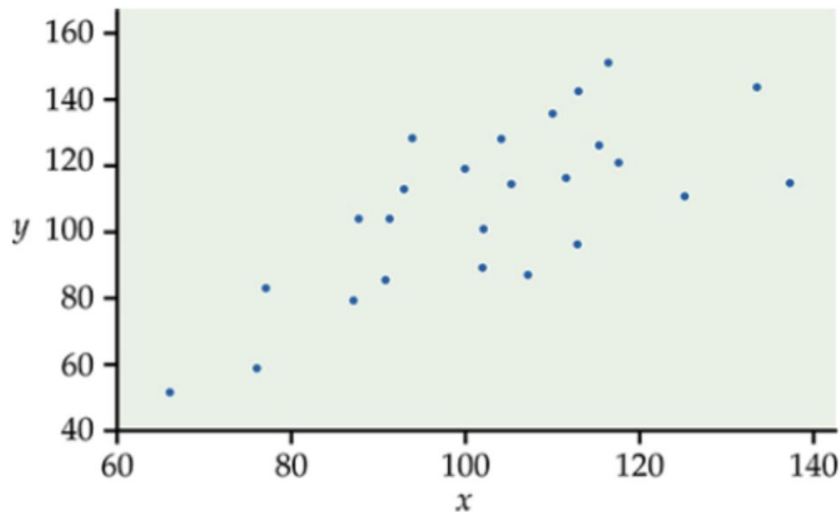


# Why visualize data?



# Be careful!

- Like any statistic, visualizations can distort data



- Are these points 'close' together?

~James Wilson

# Be careful!

- Data visualization does **NOT** prove anything about the data
- Data visualization does **NOT** prove anything about the data
- Data visualization does **NOT** prove anything about the data
- Data visualization does **NOT** prove anything about the data