Data Visualization: ggplot2
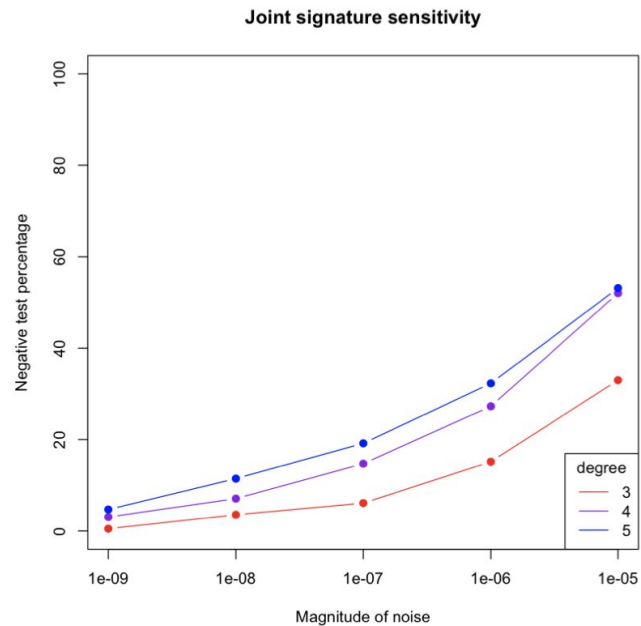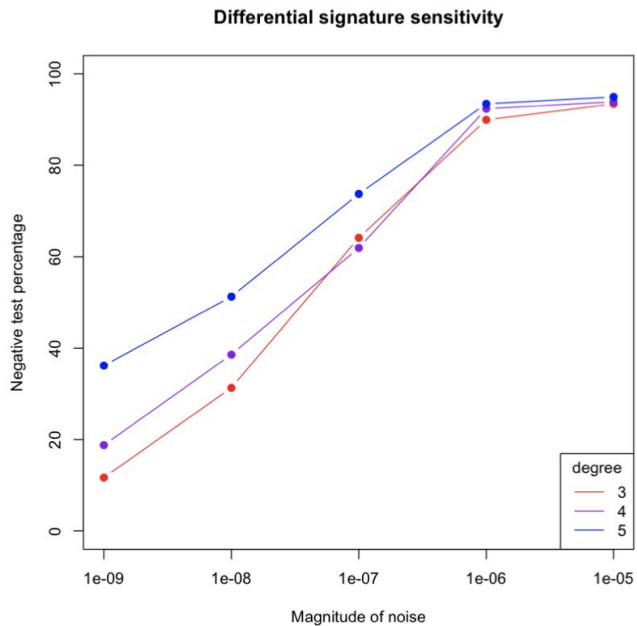
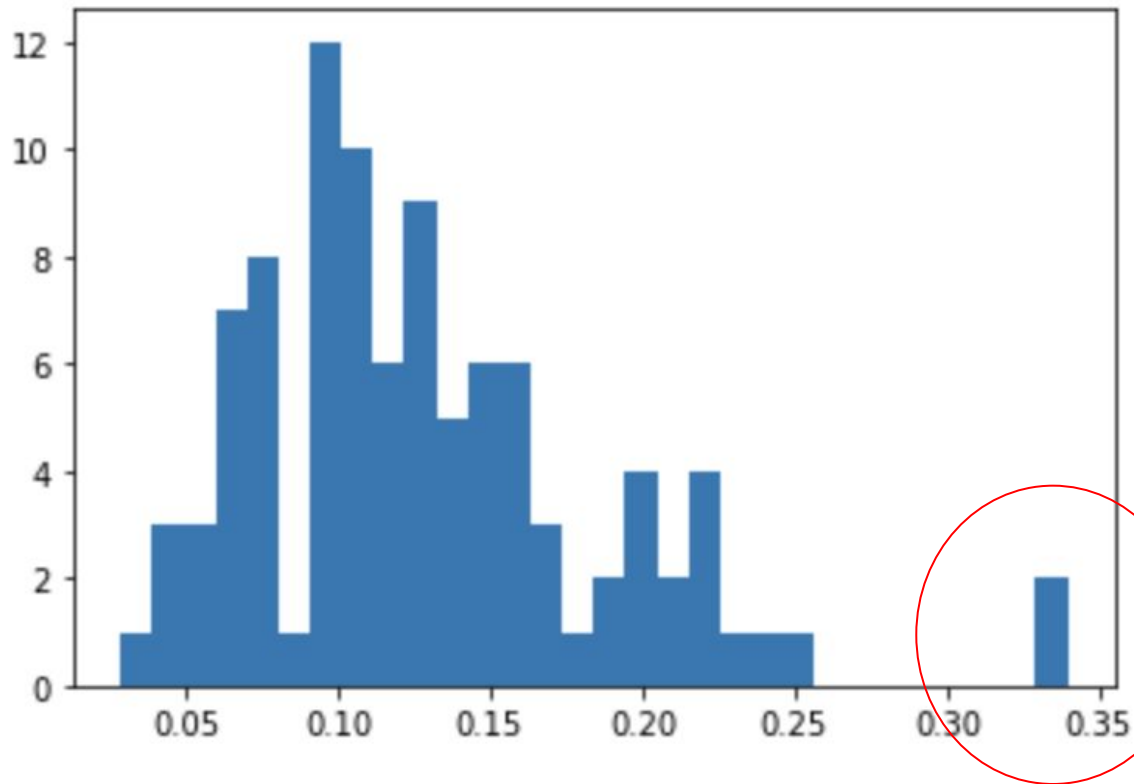BSDS 100, Spring 2021
Michael Ruddy

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
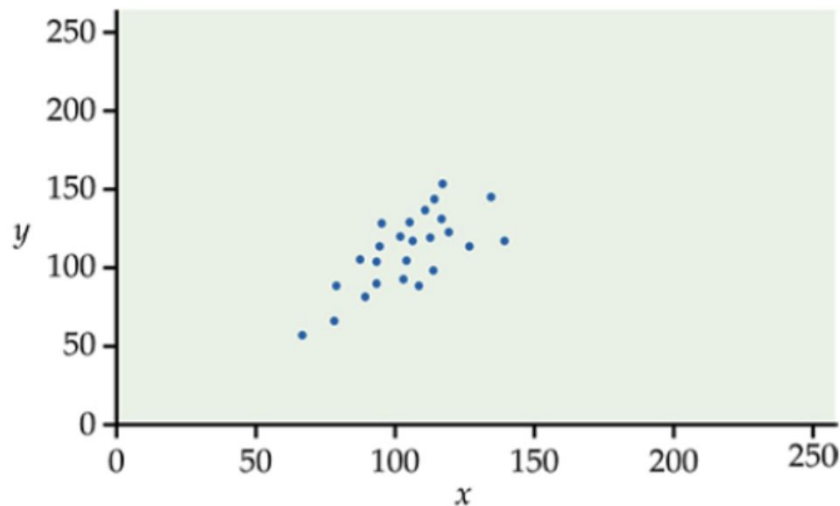
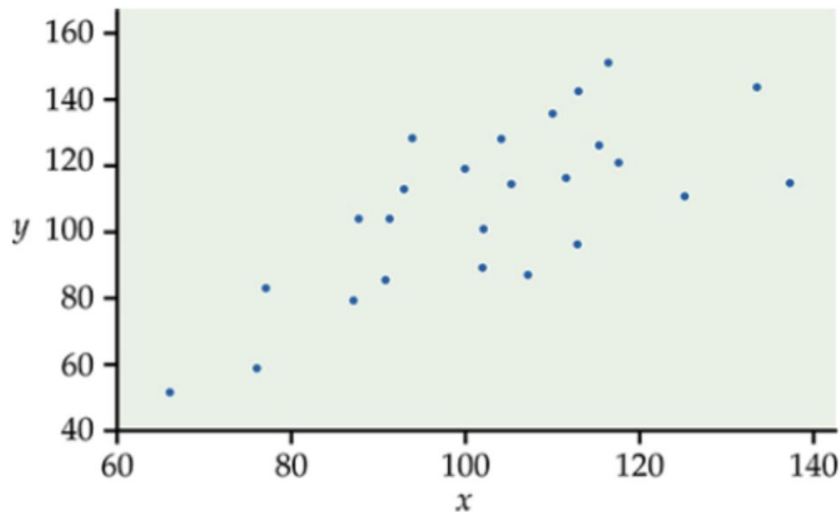- Sanity check!

Why visualize data?

Why visualize data?

Be careful!

- Like any statistic, visualizations can distort data

~James Wilson

- Are these points 'close' together?

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