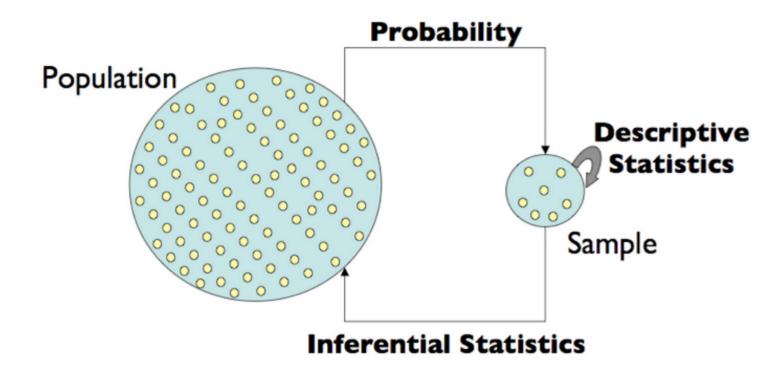
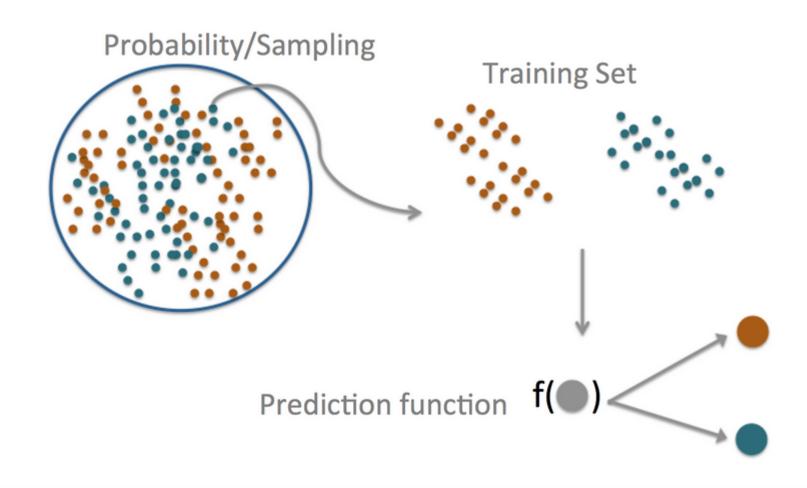
# Organize thyself

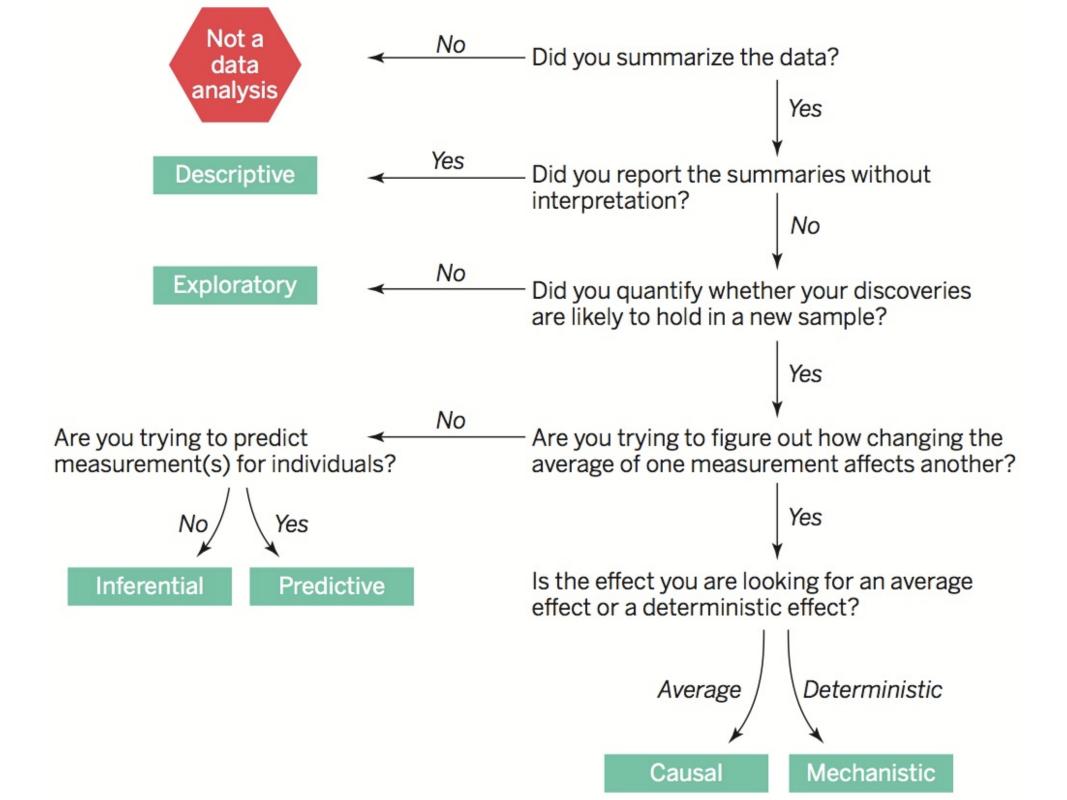
#### Inference



http://www.gs.washington.edu/academics/courses/akey/56008/lecture/lecture2.pdf

#### **Prediction**





### Steps in a data analysis

- Define the question
- Define the ideal data set
- Determine what data you can access
- Obtain the data
- Clean the data
- Exploratory data analysis
- Statistical prediction/modeling
- Interpret results
- Challenge results
- Synthesize/write up results
- Create reproducible code

### An example

http://jtleek. com/jhsph753and4/lectures/01\_01\_cours eBackground/#35 Version control

http://slides.com/jeffleek/sisbid-m1-d1#/7

Hint: click down

## Why reproducible research is important

http://slides.com/jeffleek/sisbid-m1-d1#/4

Hint: click down

### Reproducible research

http://slides.com/jeffleek/sisbid-m1-d1#/8

Hint: click down

#### Homework for next time

- Install R, Rstudio, Git, and Github
  Do the practice examples if you need to
- 2. What is a data set you have in hand and can share?
- 3. What data do you wish you had?