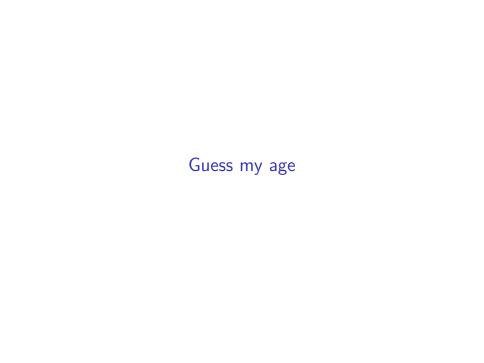
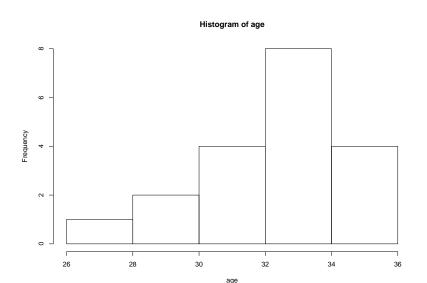
Descriptive statistics

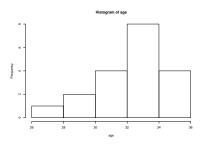


Graph your estimates

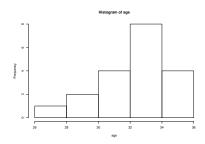
hist(age)



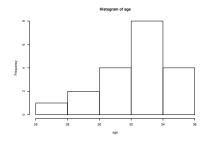
► Central tendency / location



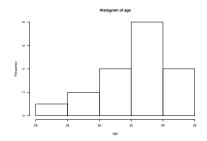
- ► Central tendency / location
 - mean



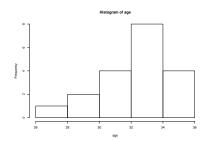
- ► Central tendency / location
 - mean
 - median



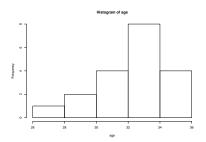
- ► Central tendency / location
 - mean
 - median
 - **▶** mode



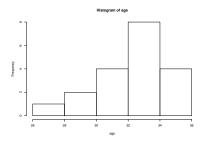
- ► Central tendency / location
 - mean
 - median
 - ► mode
- ► Variation / Spread



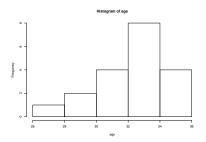
- ► Central tendency / location
 - mean
 - median
 - ► mode
- ► Variation / Spread
 - min, max, range



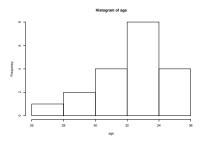
- ► Central tendency / location
 - mean
 - median
 - ► mode
- ► Variation / Spread
 - min, max, range
 - quantiles



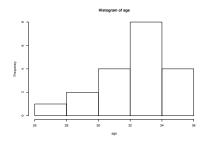
- ► Central tendency / location
 - mean
 - median
 - ► mode
- ► Variation / Spread
 - min, max, range
 - quantiles
 - standard deviation



- Central tendency / location
 - mean
 - median
 - ► mode
- ► Variation / Spread
 - min, max, range
 - quantiles
 - standard deviation
 - standard error



- Central tendency / location
 - mean
 - median
 - ► mode
- ► Variation / Spread
 - min, max, range
 - quantiles
 - standard deviation
 - standard error
 - coefficient of variation

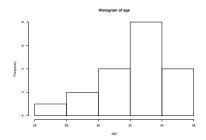


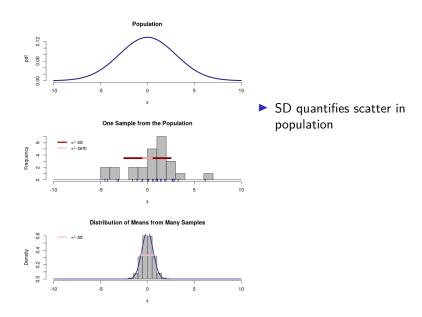
► Central tendency / location

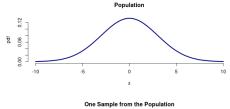
- mean
- median
- ► mode

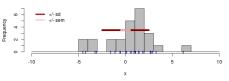
► Variation / Spread

- min, max, range
- quantiles
- standard deviation
- standard error
- coefficient of variation
- confidence intervals

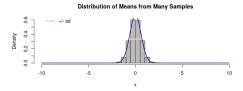


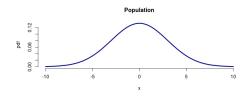


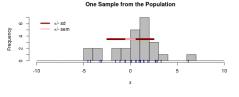


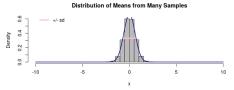


- SD quantifies scatter in population
- SEM quantifies uncertainty in parameter estimate (population mean)

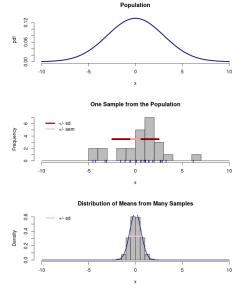








- SD quantifies scatter in population
- SEM quantifies uncertainty in parameter estimate (population mean)
- ► SEM = SD/sqrt(n)



- SD quantifies scatter in population
- SEM quantifies uncertainty in parameter estimate (population mean)
- ► SEM = SD/sqrt(n)
- SEM decreases with sample size (mean better known), SD does not.

In a Normal distribution

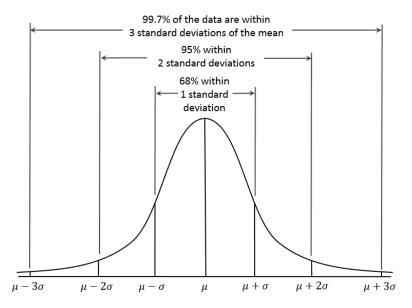


Figure 1:

What statistical descriptors are best? (and why)

https://pollev.com/franciscorod726

