Section 5.5: Small-sample situation:

Friday, June 12, 2015
9:09 AM

Student's t distribation

what if your semple size is small?

- either the availability of data is restricted (studying large-magnitude earthquakes)

- or practical considerations limit the amount of date you are will in to take

(cost of rediocarbon dating: \$10,000 per semple)

(length of time per measurement)

when can you use the normal distribilition?

x z = x-p 6/sn

? normally distributed if

original population you are samply from is itself normally distributed

(then sample size doesn't matter)

usue | Scenerio

arizinel population is not normal but sample size = 30

conclusion: if n 13 small (n 430) and distribution is non-normal or unknown.