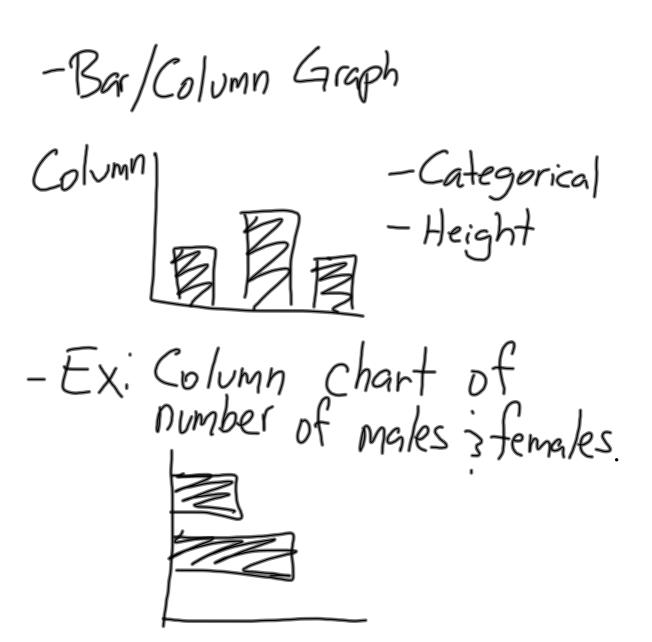
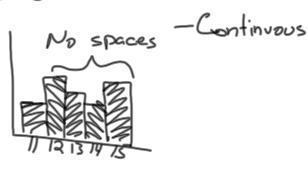
Last Class - Measures of variation Linterpeting standard deviation. - Overview of graphs Line Pie Histogram Bar/Column Today: More graphs, exemples, & Sampling



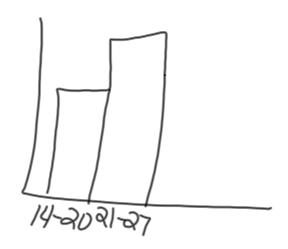
Histogram



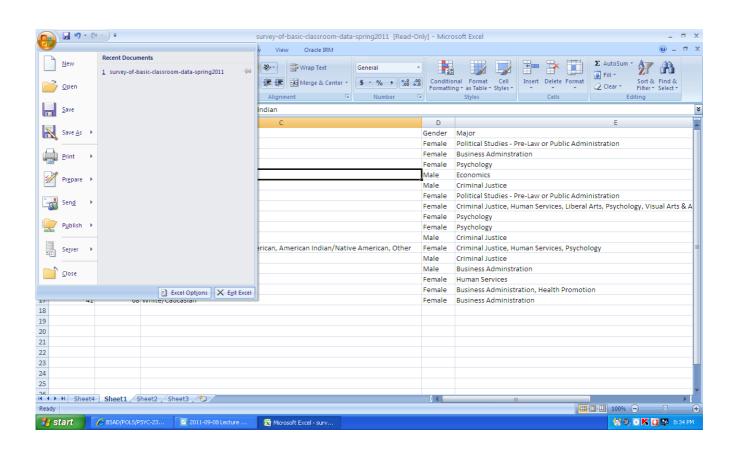
In Excel, Histograms are an optional add-in

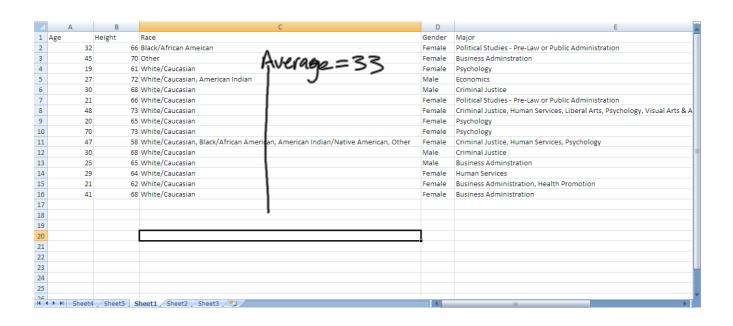
Ex: Histogram of age.

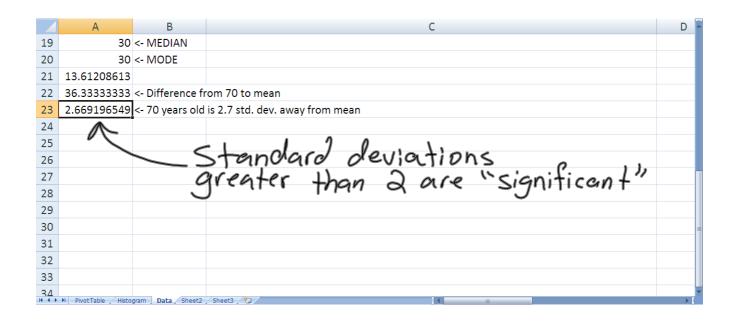




If data is randomly missing, then ignore the observation.

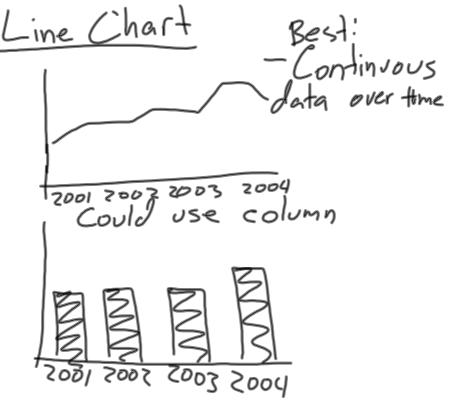






Column/Bar V Histogram V Pie Chart

Ex: Pie chart of student majors



Ex: Land-Ocean Temperature
from 1880 to 2010.

(Anomolies in temperature
from the "average"
temp.)

JEach number is the difference of the year's aug. temp from the average between 1957-1980.

e.g. -0.576 in 1880 means 0.576°F below the '51-'80 avg.

Scatterplot

- Previously we've looked at plotting one variable (uni variate analysis) one variable

- We can also explore two variables at the same time bivariate multiport

Scatterplots hard to graph.

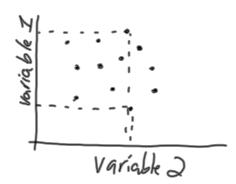
Best when comparing

Two continuous variables.

L(an be used w/

(atesprical data, but

More difficult



Ex. New data: Educational

Spending

- (reate Scatterplot of Pay"

Spend

Spend

Import data

Web -> Excel

Scaph

Three notes: LHW #2 to be returned Tuesday. LHW #3 Posted tomorrow (due Thursday) L Tuesday's class will discuss normal distributions (ska. day behind)