Untitled.notebook January 02, 2019

> Scatterplots
> - looking for an association between two quantitative variables Association : < strong Assoc.
>
> - can be linear or non-linear not linear Correlation
> - must be linear

Describe Scatterplots

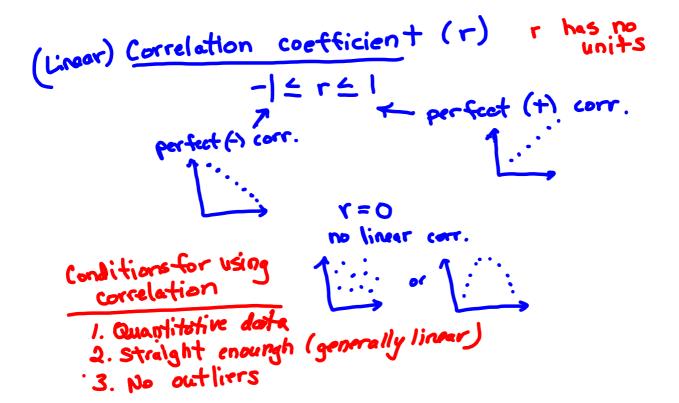
1. shape (linear, etc.)

2. strength

3. direction (+,-)

- 4. unusual (outliers)

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X = explanatory variable

y = response variable

Height us. weight

x

Lurking Veriable - a factor happening in the background that affects both veriables.

Ex: ice cream sales us. A/c sales lucking variable = temperature #8 b, d, 15, 19, 22, 23

#8 a: As prices 1, # sold will to + dir

Explanatory variable & price

Risponse variable = # sold

Shade - thesar

Strendth - pretty strong

- 8. Association Suppose you were to collect data for each pair of variables. You want to make a scatterplot. Which variable would you use as the explanatory variable and which as the response variable? Why? What would you expect to see in the scatterplot? Discuss the likely direction, form, and strength.
 - a) When climbing mountains: altitude, temperature
 - b) For each week: ice cream cone sales, air-conditioner sales
 - c) People: age, grip strength
 - d) Drivers: blood alcohol level, reaction time