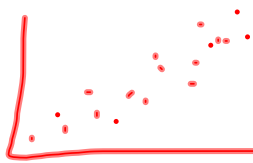


3.1 scatterplots

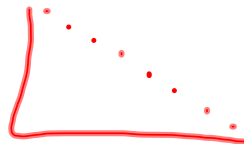
cheez-it
snickers
black licorice
almond joy
smarties
rice krispies treats
skittles
m&m's
butterfinger
reese's pieces
4 musketeers
nerds
blowpops
altoids
shortbread cookies
oreo cookies
goldfish
gummy bears
funyuns
cashews
raisins
beef jerky
popcorn
wasabi coated peas
smoked almonds

cheez-it
snickers
black licorice
almond joy
smarties
rice krispies treats
skittles
m&m's
butterfinger
reese's pieces
4 musketeers
nerds
blowpops
altoids
shortbread cookies
oreo cookies
goldfish
gummy bears
funyuns
cashews
raisins
beef jerky
popcorn
wasabi coated peas
smoked almonds

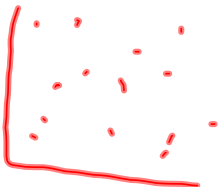
What would a graph look like for 2 people who have similar interests?



Opposite interests?



No particular correlation?



Response (dependent) variable

- outcome of a study
- usually y, vertical

Explanatory (independent) variable

- attempts to explain observed outcomes
- usually x, horizontal

Scatterplot

- show relationship between 2 quantitative variables
- one variable on horizontal axis, other variable on vertical axis
- a point per individual

At this point, exercises 1, 3, & 5 on page 123 and number 7 on pages 125-126 would be accessible.

Look for

- **overall pattern**
- **any deviations** (like clusters or outliers)

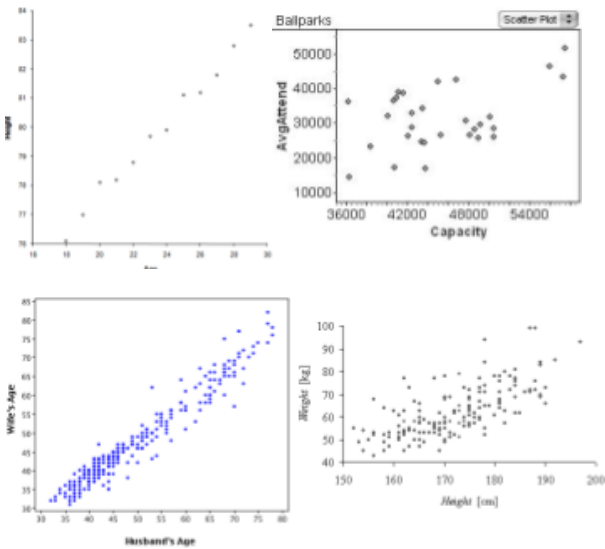
Describe

- **form**
- **direction**
- **strength**

Form
→ Hella point
Strength
Direction

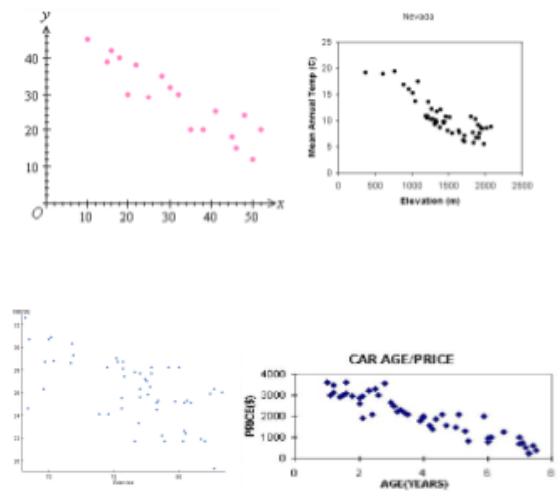
outlier: a value outside the overall pattern

Positive association



when values of 1 variable go up,
values of the other do too

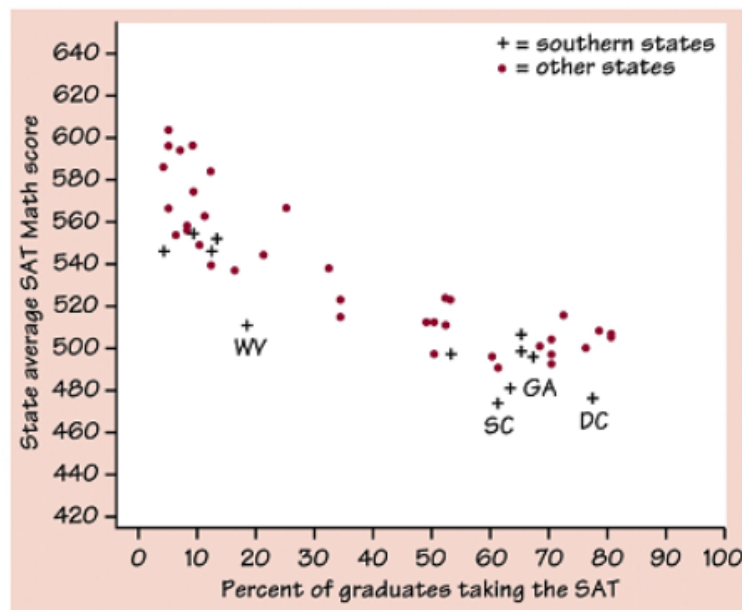
Negative association



when values of 1 variable go up,
values of the other go down

You can include categorical variables using different symbols or colors.

TI-83: separate data into two lists, use different symbol for each, plot both at the same time.



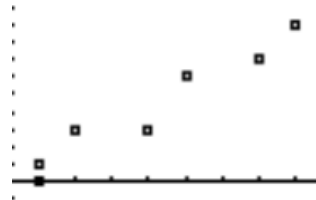
3.1 Couples_FULLL.ftm



L1	L2	L3	3
1	0		
1	1		
2	1		
3	1		
4	1		
5	1		
6	1		
7	1		
8	1		

L3(1)=

Plot1 Plot2 Plot3
On Off
Type:
Xlist: L1
Ylist: L2
Mark: + .



You can now try
exercises 9 & 11 on page 129
and exercise 13 on page 134.

Attachments



3.1 Couples_FULLL.ftm