

TUES MAR 12

INTERACTIONS BETWEEN VARIABLES

VARIANCE:
OF SAMPLE

$$\frac{1}{n-1} \sum_i (x_i - \bar{x})^2$$

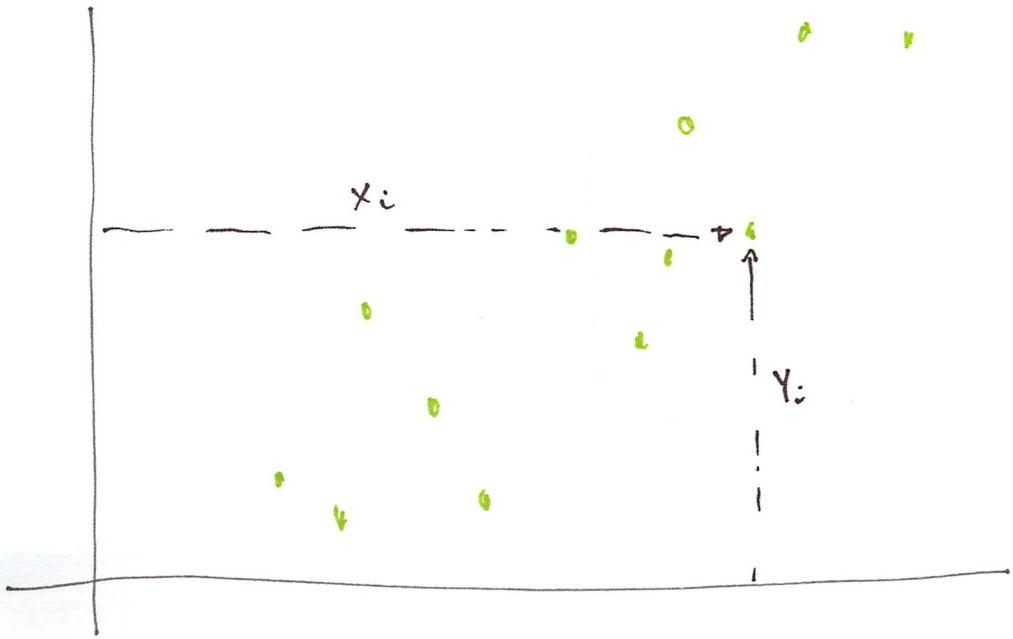
Q: DO MOVIES
THAT COST MORE
MAKE MORE \$\$?

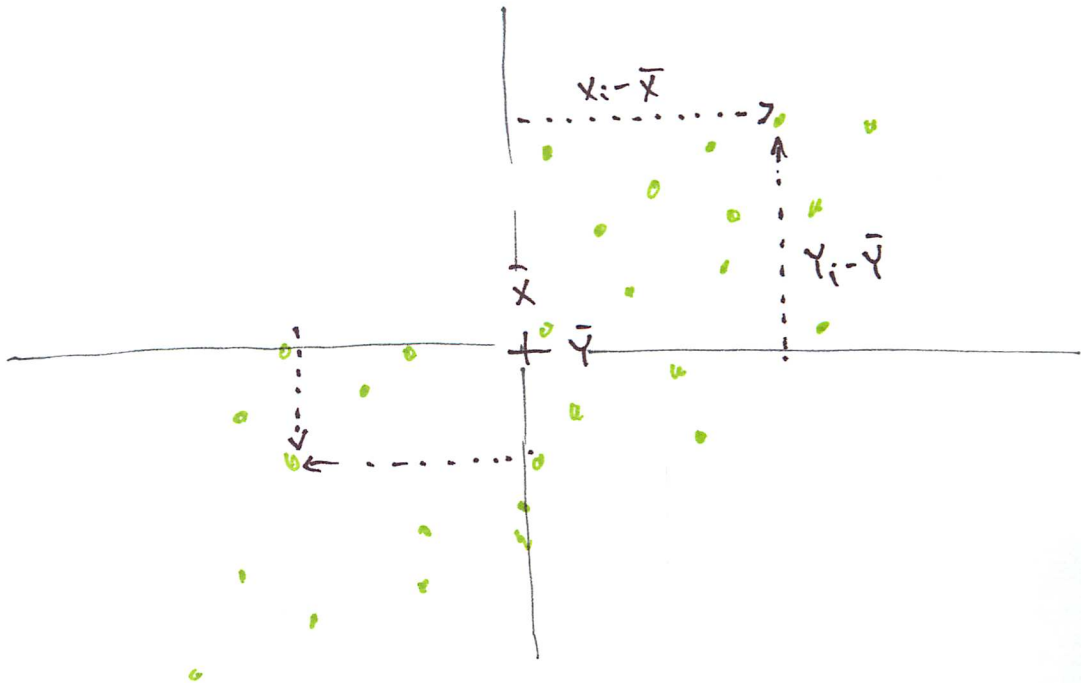
COVARIANCE:
OF SAMPLE

$$\frac{1}{n-1} \sum (x_i - \bar{x})(y_i - \bar{y})$$

PEARSON
CORRELATION:
COEFFICIENT

$$\frac{\sum (x_i - \bar{x})(y_i - \bar{y})}{\sqrt{\sum (x_i - \bar{x})^2} \sqrt{\sum (y_i - \bar{y})^2}}$$





LINEAR MODEL

