Correlation

L Two continuous variables.

L Same logic applies to binary variables L Same interpretation.

What about correlation of ranks?

Exi. The rank of wages for each major by gender.

- Pearson correlation Coefficient Cannot be used w/ rank data

- Spearman's rho (p)

Can be used to

Calculate correlations

between ranks.

SUse SPSS.

Linear Regression - Extension of correlations Slope (Direction ! Trade-off) Visual: What is the slope? Where does this line 1 Start? (e.g. what is the value of Y, when X=0?) Regression eguation Y = X + BX + E variable - For each value of X "e.g. days absent" The value of Y
 When X=D
 (aka intercept) B = 15 the slape (or trade-off) between X and Y (aka slope) \mathcal{E} = the amount of error between Predicted and actual valves (aka. residual, error)

Ex. Right-to-work legislation

Southern Compel

people to join unions.

Opposite of RTW is Thirshare

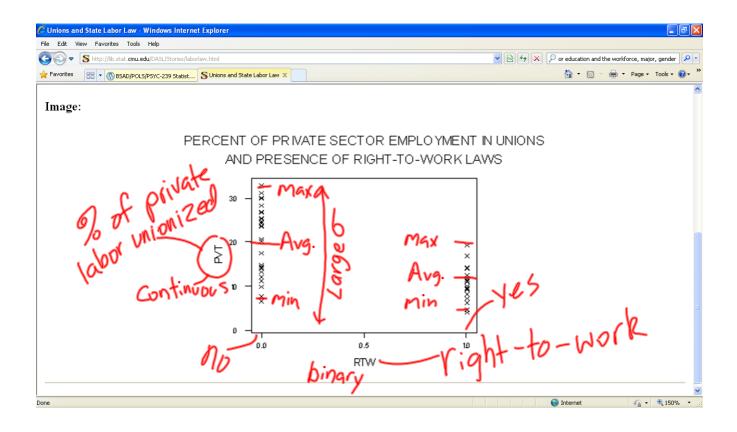
What's the impact

of being a right-to-work

state on union membership?

Hypothesis:

- (1) Being a right-to-work State will increase union Membership (probably false)
- Deing a right-to-work state reduces union membership.
- 3 There is no relationship between right-to-work and union activity.



$$\frac{1}{n} \sum_{n=1}^{\infty} \chi_{i}$$
= $\frac{\chi_{i} + \chi_{2} + \chi_{3} + \dots + \chi_{n}}{n}$
= $\frac{15 + 15 + 15 + 12}{12 + 16 + \dots}$
= $\frac{1}{n} \sum_{n=1}^{\infty} \chi_{i}$