Regression, part I

First, how is regression different from correlation?

What is a least squares lines, and how do we fit one to our data?

(You should know that there are other ways of fitting a line, but that's all you need to know about any other "methods")

How do you calculate this line? In specific, how do you get b_0 and b_1 ?

What is *SS*_{cp}?

What is your equation for the line?

Don't confuse your equation of a line with the equation for Y_i

The equation for Y_i is not an equation of a line and includes e_i as an extra term.

Why is this useful?

What is the difference between \hat{Y}_i and Y_i ?

What are we estimating with b_0 and b_1 ?

Be able to sketch the least squares line given the equation.

Comment: be a bit careful when reviewing this material if you have the 4^{th} edition. In class we are taking the approach used by the 2^{nd} and 3^{rd} edition. This is also the approach used in the notes.