o what do each of these symbols mean?

- . What are we estimating?
  - B., B.
- · How do we do the estimation?

OLS or ML

Linear regression assumptions:

- 1. Normality
- 2. Homogeneity of variance
- 3. Independence

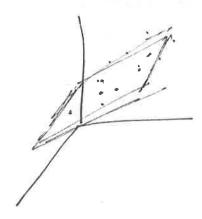
Others:

- linearity
- fixed X-values
- · Aside : Standardized residuals = residuals =
- · Heide : F-statistic returned by 'low of regression -> comparisson to model w/ only mean.
- · Aside adjusted R2 = R2 that is adjusted for the number of predictors

How do we know if our middle fits our assumptions?
- Regression diagnotics.

## Multiple Linear Regression

Rather than predicting the relationship between a response and the predictors with a single line, we are now looking at a plane



The slope of a line in one-dimension of the plane is the partial regression coefficient.