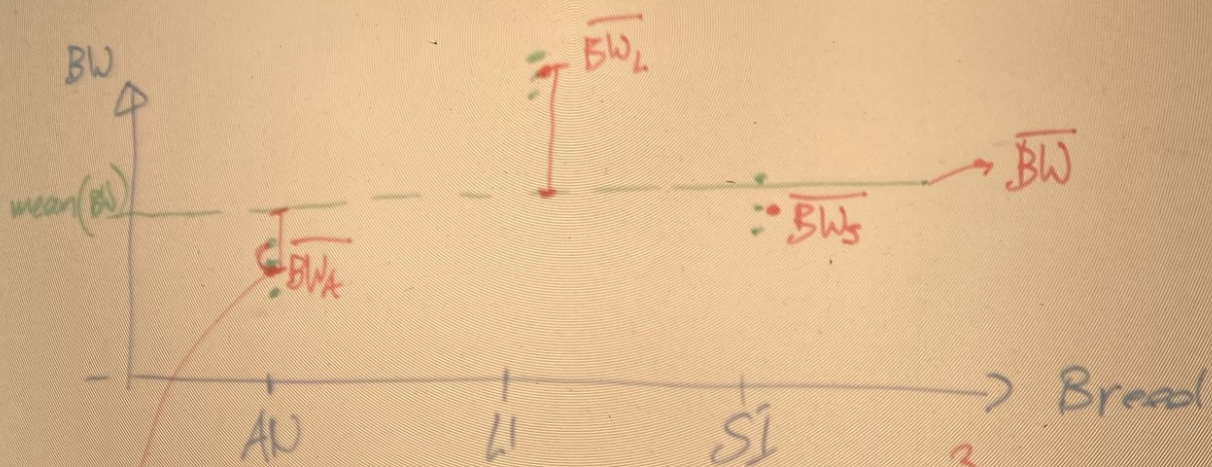


□ Variation in Data can be quantified by Analysis of Variance (ANOVA)

In R: `anova()` ; parameters the same as with `lm()`

• Results shown with `summary()`

□ Example: `anova('Body Weight' ~ Breed, data = ...)`



$$SSq[Breed] = \sum_{i=1}^3 (\overline{BW}_i - \overline{BW})^2$$

$$= (\overline{BW}_A - \overline{BW})^2 + (\overline{BW}_L - \overline{BW})^2 + (\overline{BW}_S - \overline{BW})^2$$