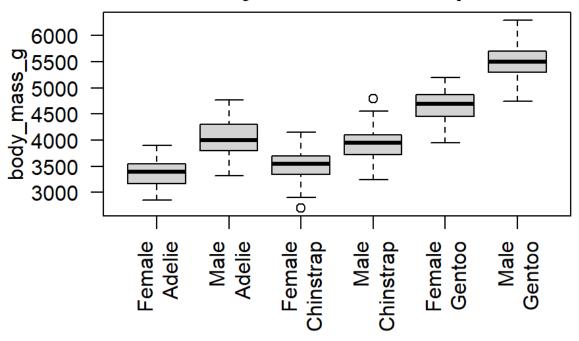Ian Eggleston

Doubly-Conditional Boxplot

1.
2. Based on the boxplot, male penguins have an average body mass that is greater than the spread of female body masses. Therefore, they are significantly heavier.
3. Adding sex, shows how much that influences the body mass of each species. You would want an even amount of each sex in an study because of the influence sex has on body mass.
4. fit_both = lm(formula = body_mass_g ~ (species * sex),data = penguins)
5. Adelie female is the base case
6. (Intercept) and speciesChinstrap
7. 3527.21 g is the predicted mean
8. 3527.21 g is the observed mean