Week 6 Reading Guide: Model Selection

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|  | **Answers in different color text**  It is **really** helpful for me if you make your answers in a different color, so I can easily pick them out! |

**What is parsimony? How does parsimony relate to Occam’s Razor?**

**What do we mean by the term “full model”?**

**What is the relationship between the variance of** the variance of and the variance of the residuals?

**What is the formula for** ?

**What values must** fall between?

**How do you interpret** ?

**Why can’t you use** for regressions with more than one (1) explanatory variable?

**How does adjusted** remedy this issue?

**Suppose you have a two categorical variables included in your regression, one with 7 levels and one with 4 levels. What value will you use for** in the calculation of ?

**What is stepwise model selection?**

**How does backward selection work?**

**How does forward selection work?**