**Week 10, Day 1**

**Multiple Logistic Regression**

* Inference
  + Conditions: linearity, randomness, independence
  + Test for slope a specific predictor (Wald test)
  + CI for the slope & Interpretation
  + Drop-in-deviance test (G-test, likelihood ratio test) for usefulness of the logistic model
  + Nested drop-in-deviance test (LRT)
    - anova(reduced,full,test="Chisq")
    - parallels with nested F-test (multiple linear regression)
* Remember: “Holding all other variables constant”!
* Goodness of Fit: Misclassification Table (no longer R2!)

pred.success <- ifelse(fitted(model)>0.5,1,0)

tally(~pred.success+model$y,format="proportion")

* Finish Multiple Logistic Regression Practice