**Introduction to LMMs – independent practice.**

**Remember: “intelligent copy paste”***Find the piece of code you need, copy it and modify it*

(1) Build an LMM that includes fixed effects for Trial, main effects for Twitches and main effects and interactions between Task and Congruence and main effect of Twitches.  
Include random slopes for Twitches varying across Subjects, and random slopes for the effect of Congruence varying across Subjects. Include correlations between intercepts and slopes.  
Save this in lmer.4

(2) Plot the fixed effects from this model.

(3) Use update( ) to compare this model to a model that does not include the interaction between Task and Congruence. Save this model in lmer.4.NoInt  
What is the result?

(4) Plot the random effects for Congruence varying across Subjects. Make sure you update the axes labels. (hint – modify code on lines 155-157)