- We are going to do is define our full model with our fixed effects and fully crossed Subject and Item random effects.
- Then we are going to define the null model with only the random effects.

```
model.full <- lmer(RT~Context*Sentence + (1+Context*Sentence|Subject) + (1+Context*Sentence|
Item), data=DV, REML=TRUE)
model.null <- lmer(RT~(1+Context*Sentence|Subject) + (1+Context*Sentence|Item), data=DV,
REML=TRUE)</pre>
```

- Note that we define our fixed effect using the notation Context*Sentence
- This is equivalent to (Context + Sentence + Context: Sentence) which corresponds to a main effect of Context, a main effect of Sentence and the interaction between the two (as represented by the colon symbol).

• Our model with the fixed effects (as well as the random effects) is a better fit for our data than is the model just with the random effects. Now we need to look at the model parameters using the summary () function...

```
> summary(model full)
```