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59 lines (46 sloc) | 3.17 KB

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History



```
1 library(lme4)
2 library(lmerTest)
3 library(lsmmeans)
4 library(pbkrttest)
5 library(readr)
6 library(ggplot2)
7
8 #script for AngerFear RT and accuracy data analysis with arousal
9
10 #this is the analysis of the RT data
11 AngerFearRT <- read_csv("~/AngerFearRT.csv")
12
13 AngerFearRT$StoryEmotion <- as.factor(AngerFearRT$StoryEmotion)
14 AngerFearRT$FaceExpression <- as.factor(AngerFearRT$FaceExpression)
15
16 contrasts(AngerFearRT$StoryEmotion) <- matrix(c(.5, -.5))
17 contrasts(AngerFearRT$FaceExpression) <- matrix(c(.5, -.5))
18
19 #with Subject, Vignette, and Face as crossed random effects with arousal
20 #full model does not converge so need to drop interaction term from the random effects - in addition, Face random effect has only random in
21 modelRTAr1 <- lmer(RT ~ StoryEmotion*FaceExpression*Arousal + (1+StoryEmotion+FaceExpression|Subject) + (1+StoryEmotion+FaceExpression|Vig
22 summary(modelRTAr1)
23 modelRT <- lmer(RT ~ StoryEmotion*FaceExpression + (1+StoryEmotion+FaceExpression|Subject) + (1+StoryEmotion+FaceExpression|Vignette) + (1
24 anova(modelRTAr1, modelRT)
25
26 #difference between models not signif - arousal does not interact with effect so drop arousal from subsequent analysis
27
28 modelRTnull <- lmer(RT ~ (1+StoryEmotion+FaceExpression|Subject) + (1+StoryEmotion+FaceExpression|Vignette) + (1+FaceExpression|Face),
29 anova(modelRT, modelRTnull)
30 summary(modelRT)
```