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Affective-Theory-of-Mind-Inferences / Expt 1 Script and data / **Expt1_AngerFear_script.R**

 ajstewartlang Tidied up code with consistent labelling   de7b584 3 hours ago

0 contributors

59 lines (46 sloc)   3.17 KB   Raw   Blame   History   ▭   ✎   🗑

```
 1    library (lme4)
 2    library (lmerTest)
 3    library (lsmeans)
 4    library (pbkrtest)
 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)
```

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