

Analysis Models for Experiment 1:

Misspecification Analysis:

```
Misspec_analysis <- glmer(Misspecification ~ Shift_Direction *  
Context_Variability + (Shift_Direction * Context_Variability | SessionID), dataset,  
family = binomial(link = logit), control = glmerControl(optimizer = "bobyqa"))
```

Speech Fluency Analysis:

```
Fluency <- glmer(isFluent ~ Shift_Direction * Context_Variability +  
(Shift_Direction * Context_Variability | SessionID),  
dataset %>% filter(!Misspecification),  
family = binomial(link = logit),  
control = glmerControl(optimizer = "bobyqa"))
```

Differential Onset Latency Analysis:

```
Onset <- lmer(OnsetChange ~ Shift_Direction * Context_Variability +  
(Shift_Direction * Context_Variability | SessionID),  
dataset %>% filter(!Misspecification))
```