

Appendix: Pilot Experiment

2022-04-26

We add a new pilot dataset of 16 infants from Leiden University. Procedures: Leiden = HPP, Julien = eyetracking Which random effects structures should we use for the 2 pilot labs? (Can either have intercept per lab, or per procedure, but not both, since each lab used a different procedure.)

Participants

Analysis

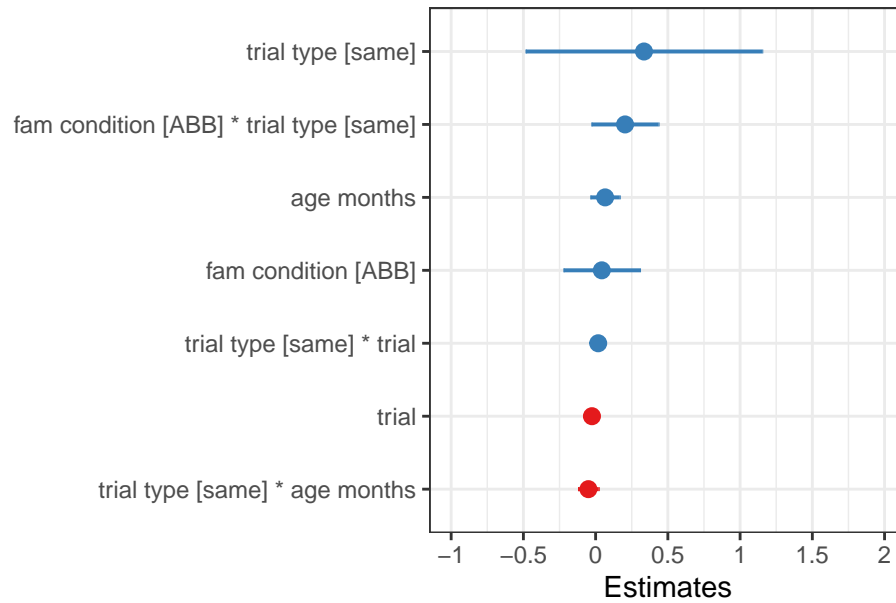


Figure 1: Regression coefficients with 95% confidence intervals.

Table 1: Summary of participants

age_months	n
8.00	7
9.00	2
10.00	2
11.00	6
12.00	15
13.00	2

Table 2: Regression coefficients.

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	7.85	0.59	16.28	13.33	0.00
fam_conditionABB	0.04	0.13	46.38	0.32	0.75
trial_typesame	0.33	0.42	341.21	0.80	0.42
age_months	0.07	0.05	22.67	1.27	0.22
trial	-0.03	0.01	85.42	-1.82	0.07
fam_conditionABB:trial_typesame	0.20	0.12	340.28	1.73	0.09
trial_typesame:age_months	-0.05	0.04	340.21	-1.37	0.17
trial_typesame:trial	0.02	0.02	354.23	1.03	0.30

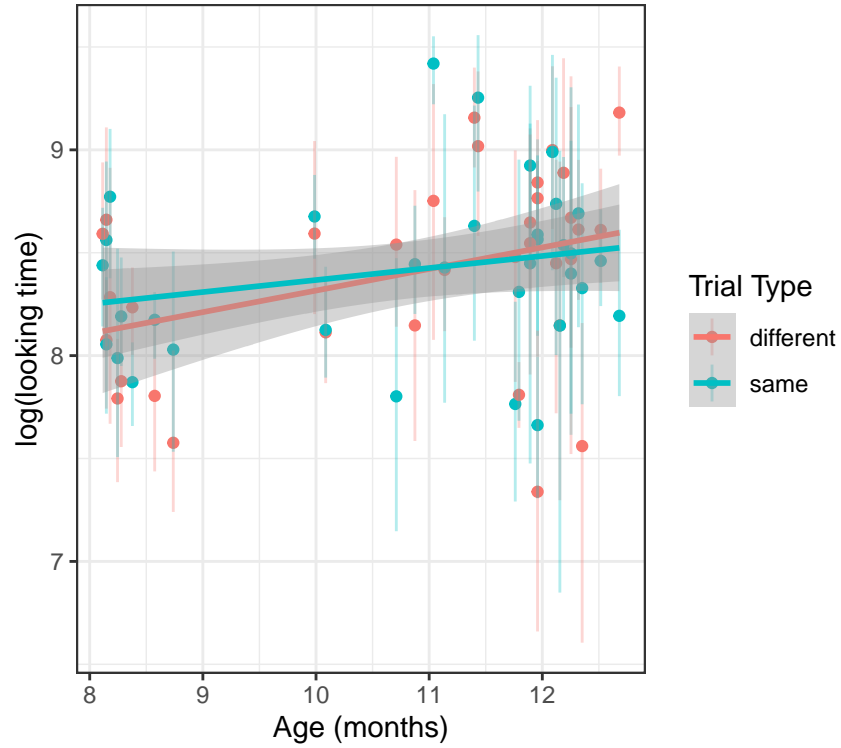
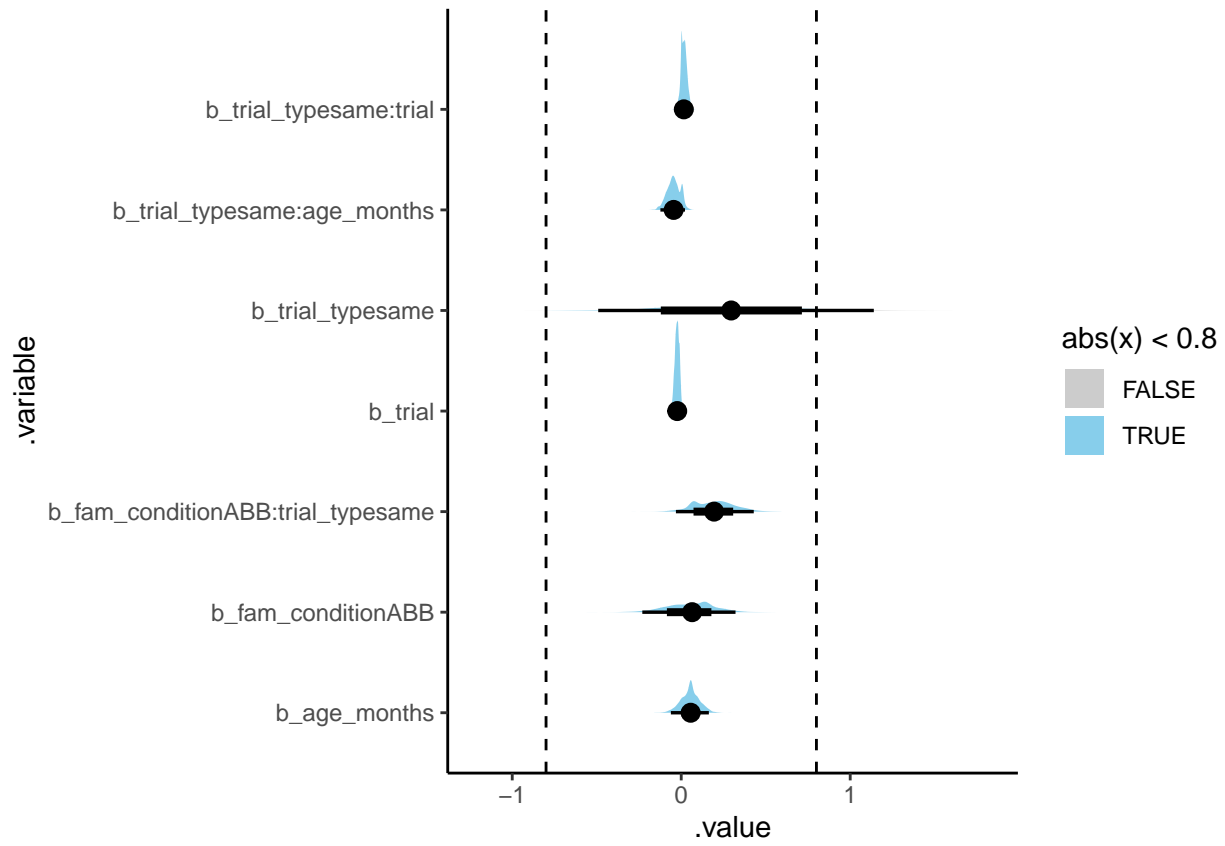


Figure 2: Log(looking time) by trial type and age, and bootstrapped 95% confidence intervals.

Bayesian Regression



Generate posterior predictive values.

