Manybabies1 Test-Retest Supplementary Materials

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S1. Notes on and deviations from the preregistration

Below, we have compiled a list of notes on and deviations from the preregistered methods and analyses available at https://osf.io/v5f8t.

- All infants with usable data for both test and retest session were included in the analyses, regardless of the number of total infants a lab was able to contribute after exclusion. This decision is consistent with past decisions in ManyBabies projects to be as inclusive about data inclusion as possible (ManyBabies Consortium, 2020).
- A small number of infants whose time between sessions exceeded 31 days were still included in the analyses (n = 3).
 - Consistent with analytic decisions in ManyBabies 1 (ManyBabies Consortium, 2020), total looking times were truncated at 18 seconds (the maximum trial time) in the small number of cases where recorded looking times were slightly greater than 18s (presumably due to small measurement error in recording infant looking times).
- In assessing differences in IDS preference between test and retest sessions, we

 preregistered an additional linear mixed-effects model including a by-lab random

 slope for session. This model yielded qualitatively equivalent results (see R

 markdown of the main manuscript). However, the model resulted in a singular fit,

 suggesting that the model specification may be overly complex and that its estimates

 should be interpreted with caution. We therefore focused only on the first

 preregistered model (including only by-lab and by-participant random intercepts) in

 reporting the analyses in the main manuscript.
 - In assessing the reliability of IDS using a linear mixed-effects model predicting IDS preference in session 2 from IDS preference in session 1, we also assessed the robustness of the results by fitting a second preregistered model with more complex random effects structure, including a by-lab random slope for IDS preference in session 1. This model is included in the main R markdown script and yields

- qualitatively equivalent results to the model reported in the manuscript that includes
 a by-lab random intercept only.
- We report a series of secondary planned analyses in the Supplementary Materials
 exploring potential moderating variables of time between test sessions (S2.1),
 participant age (S2.2.), method (S2.3.), and the language background of the
 participants (S2.4.).
 - While we fit all models described in the secondary analyses of the preregistration, including models investigating interactions between moderators, we interpret the more complex, three-way interaction models with caution. Our final sample size was smaller than we anticipated, which made our sample less well-powered to investigate more complex relationships between moderators. Moreover, the baseline model for these secondary interaction models was incorrectly specified in the preregistration (lower-order terms for the moderator were incorrectly removed in the planned baseline model), and we opt instead to report estimates using the more conventional method of comparing parameters of interest to models including all predictors except the main predictor of interest (e.g., estimating significance of three-way interaction terms by comparing the model fit to a model including only all lower-order predictors).

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S2. Secondary analyses investigating possible moderating variables

S2.1. Time between test sessions

S2.1.1. Reliability moderated by time between test sessions. The number 81 of days between the first and second testing session varied widely across participants 82 (mean: 10 days; range: 1 - 49 days). We therefore tested for the possibility that the time 83 between sessions might have an impact on test-retest reliability. We fit a linear mixed-effects model predicting IDS preference in Session 2 from IDS preference in Session 1 85 (mean-centered), number of days between testing sessions (mean-centered), and their 86 interaction, including a by-lab random intercept and random slope for IDS preference in Session 1. A more complex random effects structure including additional random slopes for number of days between test sessions and its interaction with IDS preference in Session 1 did not converge. We found no evidence that the number of days between test sessions moderated the relationship between IDS preference in Session 1 and 2. Neither the main effect of time between sessions, β =-0.01, SE=0.03, t(148.70)=-0.41, p=.684, nor the interaction term, β =-0.01, SE=0.02, t(149.10)=-0.73, p=.465, showed significant effects. S2.1.2. Change in preferential looking moderated by time between test In addition to assessing the influence of moderators on test-retest reliability, we also tested whether the difference in magnitude of the IDS preference between Session 1 and Session 2 depended on moderators of interest. To investigate the influence of time between test sessions, we fit a linear mixed-effects model predicting average IDS preference from Session (centered; Session 1 vs. Session 2), days between test sessions (mean-centered), and their interaction. We included by-lab and by-participant random intercepts (more complex random effects structures did not converge due to singular fits). 101 There were two key results. We found no evidence that the change in preferential looking 102 to IDS between Session 1 and Session 2 was moderated by days between test sessions, 103 β =-0.02, SE=0.04, t(156)=-0.48, p=.634.

⁵ S2.2. Participant age

- S2.2.1. Reliability moderated by participant age. To investigate the possibility that age moderated test-retest reliability, we fit a linear mixed-effects model predicting IDS preference in Session 2 from IDS preference in Session 1 (mean-centered), participant age (mean-centered) and their interaction. The model included a by-lab random intercept and a by-lab random slope for IDS preference in Session 1. We found no evidence that age influenced test-retest reliability as indicated by the interaction between IDS preference in Session 1 and age, β =0.00, SE=0.00, t(76.60)=-0.85, p=.398.
- S2.2.2. Change in preferential looking moderated by participant age. To investigate the potential of moderators to influence the overall magnitude of the IDS effect between Session 1 and 2, we fit a linear mixed-effects model predicting average IDS preference from Session (centered; Session 1 vs. Session 2), participant age (mean-centered), and their interaction. We included by-lab and by-participant random intercepts (more complex random effects structures did not converge due to singular fits). We found no evidence that the change in preferential looking to IDS between Session 1 and Session 2 was moderated by participant age, β =-0.02, SE=0.04, t(156)=-0.48, p=.634.

\mathbf{S}_{21} S2.3. Method

S2.3.1. Reliability moderated by Method. We tested whether method

(eye-tracking vs. central fixation vs. headturn preference procedure) moderated test-retest

reliability by fitting a linear mixed-effects model predicting IDS preference in Session 2

from IDS preference in Session 1 (mean-centered), Method (dummy-coded, with central

fixation as the reference level) and their interaction. The model included a by-lab random

intercept and a by-lab random slope for IDS preference in Session 1 (models with more

complex random effects structure including by-lab random effects for Method did not

converge). We found no evidence that Method influenced test-retest reliability as indicated

by the interaction between IDS preference in Session 1 and age, $\chi^2=3.85$, p=.146.

S2.3.2. Reliability and its interaction with both method and age. In a 131 more complex linear mixed-effects model (preregistered as part of our planned secondary 132 analyses) including the interaction between IDS preference in Session 1 (mean-centered), 133 Method (dummy-coded, with central fixation as the reference level), participant age 134 (mean-centered), and all lower order interactions, we find evidence for an interaction 135 between method and age in predicting reliability, $\chi^2=6.44$, p=.040. This effect appears to 136 be mainly driven by older infants showing some evidence of test-retest reliability for the 137 headturn preference procedure, r = 0.45, p = 0.02 (see Figure 2B). However, we believe 138 these tentative findings should be treated with caution, due to the small size of our infant 139 sample once binned by multiple moderating factors. 140

S2.3.3. Change in preferential looking moderated by age and method.

S2.4. Language background

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S2.4.1. Reliability moderated by language background. NAE-learning infants showed greater IDS preferences than their non-NAE counterparts in MB1. We therefore also assessed whether test-retest reliability interacted with children's language background. A linear mixed-effects model predicting IDS preference in Session 2 based on IDS preference in Session 1 (mean-centered), NAE (centered), and their interaction, including Lab as a random intercept, revealed no interaction, β =0.29, SE=0.18, t(151.30)=1.59, p=.115 (Figure 1).

S2.4.2. Reliability and its interaction between language background and
age. We also fit a preregistered linear mixed-effects model predicting IDS preference in
Session 2 from the three-way interaction between IDS preference in Session 1
(mean-centered), NAE (centered), participant age (mean-centered), and all lower order
interactions. We find evidence for an interaction between language background and age in

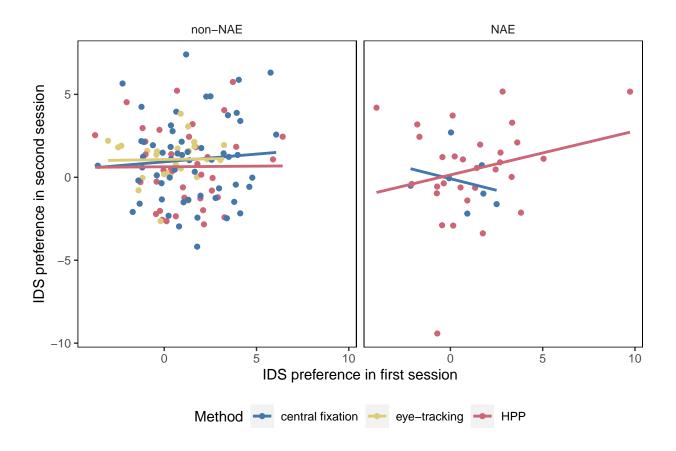


Figure 1. Infants' preference in Session 1 and Session 2 with individual data points and regression lines color-coded by method (CF, ET, or HPP). Results are plotted separately for North American English-learning infants (right panel) and infants learning other languages and dialects (left panel).

predicting reliability, β =0.01, SE=0.00, t(63.70)=2.43, p=.018. Figure 2 illustrates that 155 this interaction was driven by a small set of older infants (all from a single lab and 156 participating in the HPP method) showing a somewhat more reliable relationship between 157 Session 1 and Session 2 looking. Note that the mixed-effects analyses use Age as a 158 continuous predictor — age is median-split in Figure 2 to ease visualization. Given the 159 small number of infants driving the three-way interaction and the confounded nature of 160 this sample (with method and lab), we do not draw strong conclusions from the existence 161 of this three-way interaction, but report it here to spur future investigations into how age 162

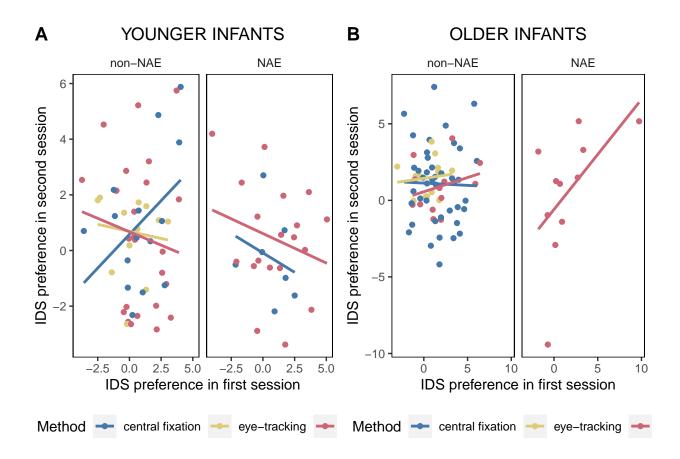


Figure 2. Infants' preference in Session 1 and Session 2 with individual data points and regression lines color-coded by method for (A) younger and (B) older infants (median-split). Results are plotted separately for North American English-learning infants and infants learning other languages and dialects

and experience interacts with test-retest reliability.

S2.4.3. Change in preferential looking moderated by age and language background.

S3. Meta-analysis of test-retest reliability

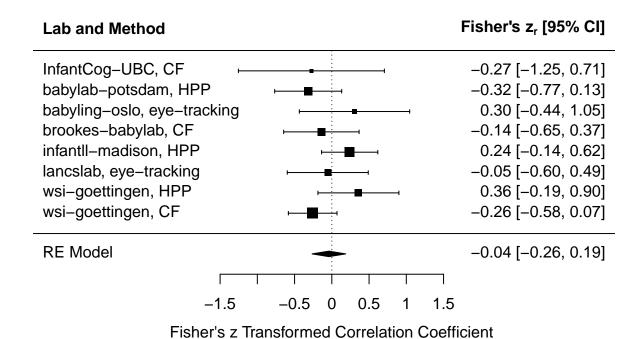


Figure 3. Forest plot of test-retest reliability effect sizes. Each row represents Fisher's z transformed correlation coefficient and 95% CI for a given lab and method (HPP = head-turn preference procedure; ET = eye-tracking; CF = central fixation). The black diamond represents the overall estimated effect size from the mixed-effects meta-analytic model.

In addition to the methods for assessing test-retest reliability reported in the main manuscript, we also investigated test-retest reliability across labs using a meta-analytic approach. We used the metafor package (Viechtbauer, 2010) to fit a mixed-effects meta-analytic model on z-transformed correlations for each combination of lab and method using sample size weighting. The model included random intercepts for lab and method. The overall effect size estimate was not significantly different from zero, b = -0.04, 95% CI = [-0.26, 0.19], p = 0.73. A forest plot of the effect sizes for each lab and method is shown

in Figure 2.

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#S4. Analyses including a more restricted sample

Given that we found that restricting the sample to participants contributing at least 6 ADS and IDS trials in both sessions, we conducted the central analyses with this more restricted infant sample.

S4.X. Moderator analyses including a more restricted sample

S4.X.1. Time between test sessions. As in the analyses with the full dataset, we found no evidence that the number of days between test sessions moderated the relationship between IDS preference in Session 1 and 2. Neither the main effect of time between sessions, β =-0.03, SE=0.03, t(95.80)=-0.96, p=.342, nor the interaction term, β =-0.01, SE=0.03, t(93.60)=-0.22, p=.828, showed significant effects.

S4.2.2. Language background

NAE-learning infants showed greater IDS preferences than their non-NAE counterparts in MB1. We therefore also assessed whether test-retest reliability interacted with children's language background. A linear mixed-effects model predicting IDS preference in Session 2 based on IDS preference in Session 1 (mean-centered), NAE (centered), and their interaction, including Lab as a random intercept, revealed no interaction, β =0.29, SE=0.18, t(151.30)=1.59, p=.115 (Figure 1).

$_{192}$ S2.3. Participant age

To investigate the possibility that age moderated test-retest reliability, we fit a linear mixed-effects model predicting IDS preference in Session 2 from IDS preference in Session 1 (mean-centered), participant age (mean-centered) and their interaction. The model included a by-lab random intercept and a by-lab random slope for IDS preference in

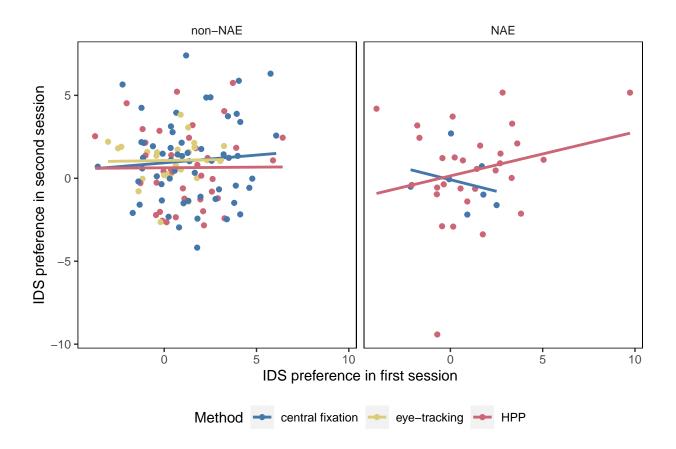


Figure 4. Infants' preference in Session 1 and Session 2 with individual data points and regression lines color-coded by method (CF, ET, or HPP). Results are plotted separately for North American English-learning infants (right panel) and infants learning other languages and dialects (right panel).

Session 1. We found no evidence that age influenced test-retest reliability as indicated by 197 the interaction between IDS preference in Session 1 and age, β =0.00, SE=0.00, 198 t(76.60) = -0.85, p = .398.

Table 1

Coefficient estimates from a linear mixed-effects model predicting

Log LT IDS preference in Session 2.

	Estimate	SE	t	р
Intercept	0.14	0.07	2.05	0.09
Log LT IDS Preference Session 1	-0.06	0.09	-0.68	0.50

S5. Alternative dependent variables

To check the robustness of our results, we also investigated whether we obtained similar results with other possible dependent measures: average log-transformed looking times and a proportion-based preference measure. For each alternative dependent variable, we conducted the main analyses of test-retest reliability reported in the manuscript: the overall Pearson correlation, the test-retest linear mixed-effects model, and an inspection of applying stricter inclusion criteria for number of trials contributed.

of S5.1. Log-transformed looking times

In these analyses, we calculated IDS preference by first log-transforming looking 208 times for each trial, computing the average log-transformed looking time for IDS and ADS 209 for each participant, and calculating the difference between average IDS and ADS 210 log-transformed looking times. We fit a linear mixed-effects model predicting IDS preference in Session 2 from IDS preference in Session 1, including a by-lab random 212 intercept. As in the analyses using average raw looking times, the results revealed no significant relationship between IDS preference in Session 1 and 2 (Table 1). The Pearson 214 correlation coefficient was also not statistically significant, r = .03, 95% CI [-.12, .19], 215 t(156) = 0.43, p = .670. Applying successively stricter inclusion criteria — by requiring a 216

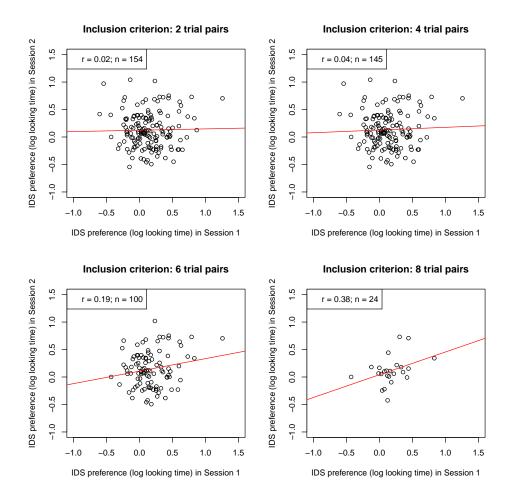


Figure 5. IDS preferences (based on average log-looking times) of both sessions plotted against each other for each inclusion criterion. n indicates the number of included infants, r is the Pearson correlation coefficient as the indicator for reliability.

higher number of valid trials per condition in each session — showed a similar pattern to the main manuscript, such that correlations increased somewhat with stricter inclusion criteria, but substantially reduced the sample size at the same time (Figure 3).

S5.2. Proportion looking to IDS

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Next, we calculated a proportion-based IDS preference measure by computing the average proportion (raw) looking time to IDS relative to total (raw) looking time to IDS 222 and ADS for each subject (i.e., IDS looking time / (ADS looking time + IDS looking 223

time)). We fit a linear mixed-effects model predicting proportion-based IDS preference in Session 2 from proportion-based IDS preference in Session 1, including a by-lab random intercept. As in the analyses using other measures of IDS preference, the results revealed no significant relationship between IDS preference in Session 1 and 2 (Table 2). The Pearson correlation coefficient based on proportional IDS looking was also not statistically significant, r = .01, 95% CI [-.15, .16], t(156) = 0.09, p = .927. Stricter inclusion criteria increased the correlation somewhat, as in previous analyses (Figure 4).

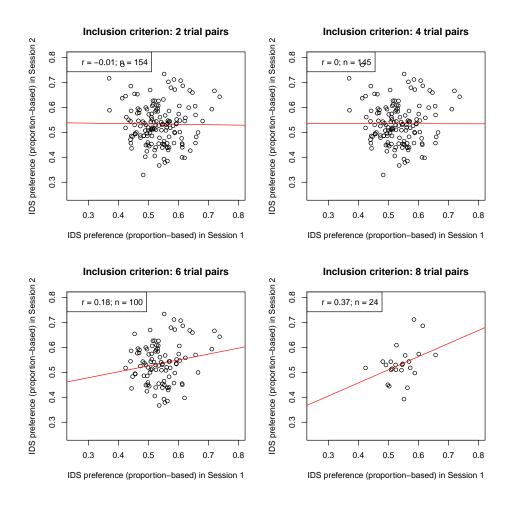


Figure 6. IDS preferences (based on proportion IDS looking) of both sessions plotted against each other for each inclusion criterion. n indicates the number of included infants, r is the Pearson correlation coefficient as the indicator for reliability.

Table 2

Coefficient estimates from a linear mixed-effects model predicting IDS preference

(based on proportion IDS looking) in Session 2.

	Estimate	SE	t	р
Intercept	0.59	0.05	10.70	0.00
IDS Preference (proportion measure) Session 1	-0.10	0.10	-1.01	0.31

S6. Sensitivity of test-retest reliability to trial number inclusion criteria

To conduct a more fine-grained analysis of how stricter trial inclusion criteria affect
test-retest reliability, we computed correlations while gradually increasing the number of
total valid trials required for inclusion. For this analysis, we required a minimum of one
IDS and one ADS trial and gradually increased the number of total valid trials required in
both sessions (irrespective of IDS and ADS condition) from 2 to 16 (the maximum number
of total trials). Figure 5 depicts the Pearson correlation coefficients for increasingly stricter
requirements for the overall trial numbers of a given participant in both sessions.
Correlations only increase and reach conventional levels of significance once the number of
total required trials for both sessions is greater than 12.



Figure 7. Pearson correlation coefficient with increasingly strict trial-level inclusion criteria. The x-axis depicts the required number of overall valid trials in both session 1 and session 2. Dots represent corresponding correlation coefficients, with 95 percent CIs. The sample size is shown above each dot.

S7. Patterns of preference across sessions

We also conducted analyses to explore whether there were any patterns of preference reversal across test sessions. While there was no strong correlation in the magnitude of IDS preference between test session 1 and test session 2, here we asked whether infants consistently expressed the same preference across test sessions. Overall, 58.20% of the infants had a consistent preference from test to retest session. Of the 158 total infants, 44.90% of infants showed a consistent IDS preference and 13.30% showed a consistent ADS preference. 23.40% of infants switched from an IDS preference at test session 1 to an ADS

preference at test session 2 and 18.40% switched from an ADS preference to an IDS preference.

Next, we explored whether we could detect any systematic clustering of infants with 251 distinct patterns of preference across the test and retest session. We took a bottom-up 252 approach and conducted a k-means clustering of the test-retest difference data (here using 253 log-transformed looking time data). We found little evidence of distinct clusters emerging 254 from these groupings: the clusterings ranging from k=2 (2 clusters) to k=4 (4 clusters) 255 appear to mainly track whether participants are approximately above or below the mean 256 looking time difference for test session 1 and test session 2 (Figure 6A). The diagnostic 257 elbow plot shows little evidence of a qualitative improvement as the number of clusters is increased, which suggests little evidence for a distinctive set of clusters of participants who 259 showed similar patterns of looking across the test and retest sessions (Figure 6B). 260

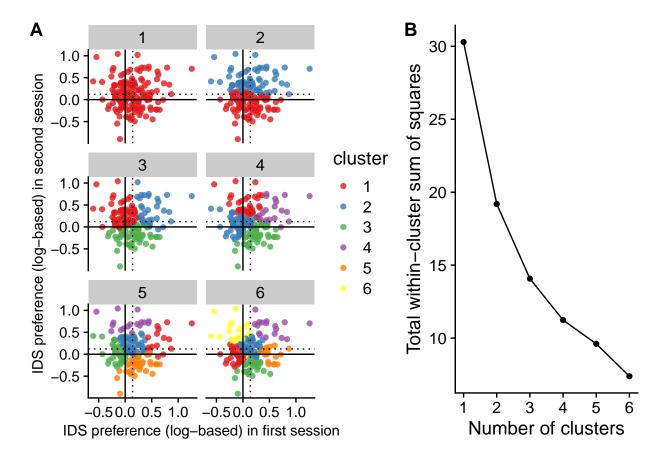


Figure 8. (A) Results from the k-means clustering analysis of IDS preference (based on average log looking times) in session 1 and 2 for different numbers of k and (B) the corresponding elbow plot of the total within-cluster sum of squares. In (A), points represent indvidual participants' magnitude of looking time difference at test sessions 1 (x-axis) and 2 (y-axis). The solid line indicates no preference for IDS vs. ADS, the dotted lines indicate mean IDS preference at test session 1 and 2, respectively. Colors indicate clusters from the k-means clustering for different values of k.

S8. Relation between number of contributed trials in each session

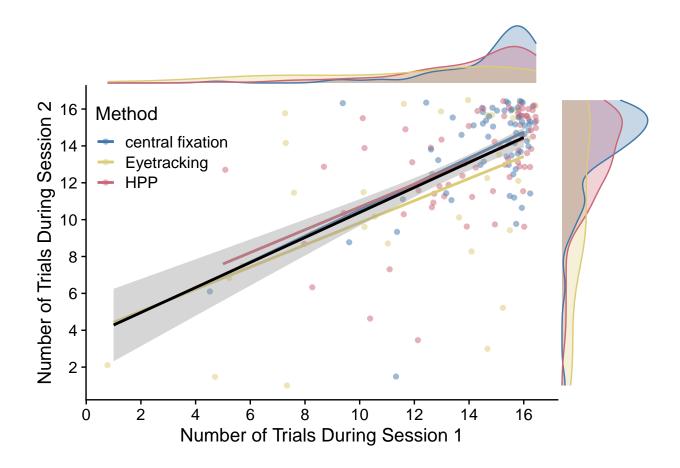


Figure 9. Correlation between the number of trials contributed in Session 1 and Session 2. Each data point represents one infant. Colored lines represent linear fits for each method.

Are there stable individual differences in how likely an infant is to contribute a high 262 number of trials? To answer this question, we conducted an exploratory analysis 263 investigating whether there is a relationship between the number of trials an infant 264 contributed in Session 1 and Session 2. Do infants who contribute a higher number of trials during their first testing session also tend to contribute more trials during their second testing session? A positive correlation between trial numbers during the first and second 267 session would indicate that there is some stability in a given infants' likelihood of 268 remaining attentive throughout the experiment. On the other hand, the absence of a 269 correlation would indicate that the number of trials a given infant contributes is not 270

271 predictive of how many trials they might contribute during their next session.

We found a strong positive correlation between number of trials contributed during 272 the first and the second session r = .58, 95% CI [.47, .67], t(160) = 9.00, p < .001 (Figure 273 7). This result suggests that if infants contribute a higher number of trials in one session, 274 compared to other infants, they are likely to contribute a higher number of trials in their 275 next session. This finding is consistent with the hypothesis that how attentive infants are 276 throughout an experiment (and hence how many trials they contribute) is a stable 277 individual difference, at least for some infant looking time tasks. Researchers should therefore be mindful of the fact that decisions about including or excluding infants based on 279 trials contributed may selectively sample a specific sub-set of the infant population they are studying (Byers-Heinlein, Bergmann, & Savalei, 2021; DeBolt, Rhemtulla, & Oakes, 2020).

S9. Correlations in average looking times between sessions

To what extent are participants looking times between the two sessions related? To 283 test this question, we first investigated whether participants' overall looking times — 284 irrespective of condition — were correlated between the first and second session. There was 285 a robust correlation between average looking time in Session 1 and Session 2: infants with 286 longer looking times during their first session also tended to look longer during their second 287 session, r = .45, 95% CI [.31, .57], t(156) = 6.28, p < .001. This relationship held even after 288 controlling for number of trials in the first and second session, suggesting that the relation between average looking in Session 1 and 2 could not be entirely explained by the 290 correlation in the number of trials contributed between the two sessions (S7), b = 0.42, 95%CI [0.27, 0.58], t(154) = 5.52, p < .001 (Figure 8A). The result is also similar when controlling for participants' average age across the two test sessions, b = 0.44, 95% CI 293 [0.30, 0.59], t(155) = 6.16, p < .001.294

Next, we explored the extent to which average looking times for IDS and ADS stimuli 295 were related. First, we found similar correlations in average looking time to IDS stimuli in 296 Session 1 and 2, r = .38, 95% CI [.24, .51], t(156) = 5.19, p < .001, and ADS stimuli in 297 Session 1 and 2, r = .40, 95% CI [.26, .53], t(156) = 5.49, p < .001 (Figure 8B). To test 298 whether these correlations were specific to looking times for IDS or ADS stimuli alone, we 299 fit linear regression models predicting average looking to IDS (or ADS) stimuli in Session 2 300 from average looking to IDS and ADS stimuli in Session 1. We found that average looking 301 to IDS stimuli in Session 2 could be predicted from average looking to IDS stimuli in Session 1, even after controlling for average looking to ADS stimuli in Session 1, b = 0.21, 95% CI [0.01, 0.41], t(155) = 2.11, p = .037. Conversely, average looking to ADS stimuli in Session 2 could be predicted from average looking to ADS stimuli in Session 1, even after 305 controlling for average looking to IDS stimuli in Session 1, b = 0.36, 95% CI [0.14, 0.58], 306 t(155) = 3.20, p = .002. These results suggest that the condition-specific correlations in 307

average looking time cannot be fully explained by the fact that infants' overall looking times between sessions are correlated.

Finally, we inspected item-level correlations between the two test sessions. 310 Specifically, we investigated the relation between items composed of the same recording 311 clips in Session 1 and Session 2 (but with a reversed order of clips between the two 312 sessions). We fit a linear mixed-effects model predicting item-level looking time in Session 313 2 from item-level looking time in Session 1, including random intercepts for participant, 314 item, and lab, as well as a random slope for item-level looking time in Session 1 for 315 participant and lab. Item-level looking in Session 2 was related to item-level looking in 316 Session 1, $\hat{\beta} = 0.17$, 95% CI [0.07, 0.27], t(5.52) = 3.38, p = .017 (Figure 8C). Similar results hold if looking times are log-transformed

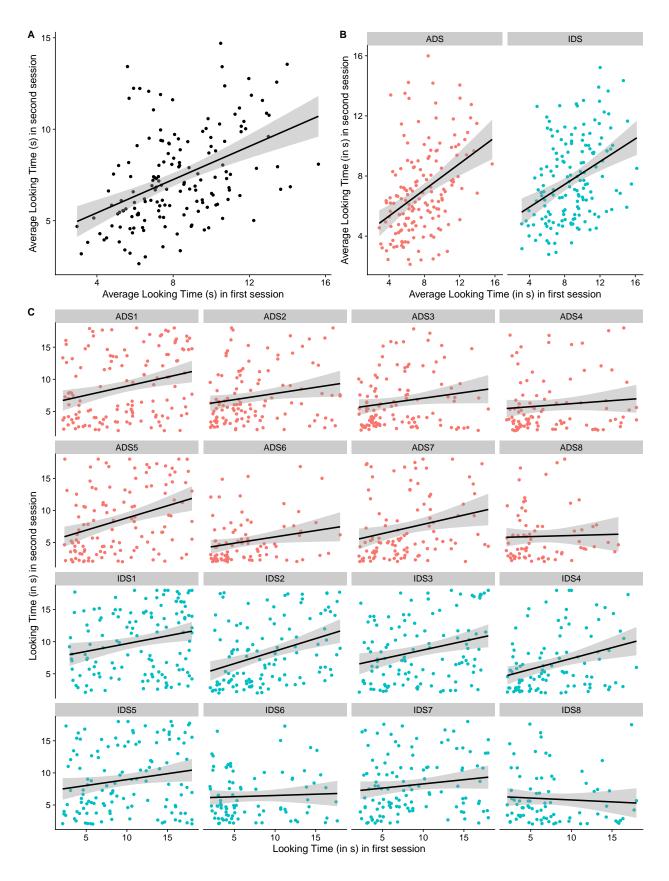


Figure 10. Correlations in average looking time (in s) between Session 1 and 2 (A) overall, (B) by condition, and (C) by item.

Table 3

Linear mixed-effects model results predicting IDS

preference in Session 2 from IDS preference in

Session 1 at the stimulus level.

Term	\hat{eta}	95% CI	t	df	p
Intercept	1.02	[0.14, 1.90]	2.27	6.55	.060
Diff 1	0.07	[-0.01, 0.14]	1.79	718.46	.074

S10. By-item-pair preference scores across sessions

Finally, we inspected on a more fine-grained item level whether IDS preference in 320 Session 1 was related to IDS preference in Session 2. To do so, we exploited the fact the 321 specific IDS and ADS stimuli were paired together in test orders in both sessions, such that 322 one IDS stimulus (e.g., IDS1) always occurred adjacently to a specific ADS stimulus (e.g., 323 ADS1). We therefore computed stimulus-specific IDS preference scores by calculating the 324 difference in raw looking time for each of the eight IDS-ADS stimulus pairs for each 325 participant (whenever both trials in a given pair were available). We then fit a linear 326 mixed-effects model predicting stimulus-specific IDS preference in Session 2 from 327 stimulus-specific IDS preference in Session 1, including by-participant and by-lab random 328 intercepts (models with more complex random effects structure, including by-item random 329 effects, failed to converge). There was a marginal, but non-significant relation in 330 stimulus-specific IDS preference between the two test sessions (Table 3). 331

332	References
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