

Peekbank: Exploring children's word recognition through an open, large-scale repository for
developmental eye-tracking data

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Abstract

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15 The ability to rapidly recognize words and link them to referents in context is central to
16 children's early language development. This ability, often called word recognition in the
17 developmental literature, is typically studied in the looking-while-listening paradigm, which
18 measures infants' fixation on a target object (vs. a distractor) after hearing a target label.
19 We present a large-scale, open database of infant and toddler eye-tracking data from
20 looking-while-listening tasks. The goal of this effort is to address theoretical and
21 methodological challenges in measuring vocabulary development. [tools; processing; analysis/
22 usage examples]

23

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Across their first years of life, children learn words in their native tongues at a rapid pace (Frank, Braginsky, Yurovsky, & Marchman, 2021). A key part of the word learning process is children’s ability to rapidly process words and link them to relevant meanings – often referred to as word recognition. Developing word recognition skills builds a foundation for children’s language development and is predictive of later linguistic and general cognitive outcomes (Bleses, Makransky, Dale, Højen, & Ari, 2016; Marchman et al., 2018).

Methods

We report how we determined our sample size, all data exclusions (if any), all manipulations, and all measures in the study.

Participants

Material

Procedure

Data analysis

We used R (Version 4.0.3; R Core Team, 2020) and the R-package *papaja* (Version 0.1.0.9997; Aust & Barth, 2020) for all our analyses.

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Results

43

Discussion

References

- 44
- 45 Aust, F., & Barth, M. (2020). *papaja: Create APA manuscripts with R Markdown*.
46 Retrieved from <https://github.com/crsh/papaja>
- 47 R Core Team. (2020). *R: A language and environment for statistical computing*. Vienna,
48 Austria: R Foundation for Statistical Computing. Retrieved from
49 <https://www.R-project.org/>