**ES/L008955/1: ESRC International Centre for Language and Communicative Development**

The files in this archive relate to:

Twomey, K. E., Ma, L., & Westermann, G. (2018). All the right noises: Background variability helps early word learning. *Cognitive Science*, *42*, 413–438.

Details of methods, procedure etc. are available in the paper.

**Contents**

**1) Structure of archive**

**2) Variable descriptions**

**1) Structure of archive**

/data: eyetracking data files; participant information, analysis scripts

/stimuli: audio and visual stimuli, stimulus details and counterbalancing

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| **File name** | **Type** | **Description** |
| Twomey\_et\_al-2017-Cognitive\_Science.pdf | PDF file | Final published paper, open access |
| data/aois.txt | Text file | AOI co-ordinates for all trials |
| data/\*.tsv | Eyetracker data, tab-separated text | Eyetracking data files. Filenames beginning dFM\* contain data from participants who were excluded; all others are included in final analysis |
| data/FMCol-final.R | R script | Annotated analysis script |
| data/fmcol-summary-anon.csv | Comma separated text file | Anonymised participant and experiment information |
| data/summarySE.R | R function | Function for calculating 95% confidence intervals |
| stimuli/audio/\*.wav | .wav files | Audio stimuli using in training and test phase |
| stimuli/audio/audio timings.xlsx | Microsoft Excel file | Details of auditory stimulus timings |
| stimuli/FM-colour-counterbalance-15trial.xlsx | Microsoft Excel file | Counterbalancing details |
| stimuli/CC1-6/\* | Microsoft Powerpoint files | Visual stimuli from constant colour condition |
| stimuli/CC1-6/\* | Microsoft Powerpoint files | Visual stimuli from variable colour condition |

**2) Variable descriptions**

**data/\*.tsv**

ParticipantName: Participant ID

RecordingName: Recording number for that participant

MediaName: Video on screen. See FMCol-final.R and audio timings.xlsx for details of recoding of stimulus onset and offset

RecordingTimeStamp Timestamp from beginning of eyetracker recording

GazepointX (MCSpx) x coordinate of averaged gazepoint measured from top-left hand corner of on-screen stimulus

GazepointY (MCSpx) y coordinate of averaged gazepoint measured from top-left hand corner of on-screen stimulus

ValidityLeft 0 if left eye detected, 4 if not

ValidityRight 0 if right eye detected, 4 if not

**data/fmcol-summary-anon.csv**

pnum Participant order

cond Condition (cc = constant, vc = variable)

sex Participant sex

order Counterbalance order used in Tobii Studio

samplesprop Eyetracker track rate: proportion of samples where eyetracker detected eyes

vocabcomponly Participant’s receptive vocabulary as scored on Oxford CDI

vocabprod Participant’s productive vocabulary as scored on Oxford CDI

vocabcomp Participant total vocabulary as scored on Oxford CDI (vocabcomponly+vocabprod)