**ES/N01703X/2: Understanding infants’ curiosity driven exploration**

The files in this archive relate to:

Twomey, K. E., & Westermann, G. (2018). Curiosity-based learning in infants: a neurocomputational approach. *Developmental Science*, *21*(4), e12629.

**This archive is structured as follows:**

Top level: files relating to paper as a whole

Exp1/\*: files specific to Experiment 1 reported in Twomey & Westermann (2018)

Exp2/\*: files specific to Experiment 2 reported in Twomey & Westermann (2018)

Files have been tagged as input (information that goes into the model) and output (raw or derived output from the model.

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| **File name** | **Type** | **Description** |
| allmodelfinal.m | Input | MATLAB script: model code. Stimuli are stored within this code. Select from conditions 1 - 5. E2 model comparisons can be run as simulation 4 (curiosity) and selecting the appropriate curiosity function at lines 445 and 446. |
| goldilocks.xlsx | Output | Analysis of distances chosen by curiosity model. Includes details of EDs between successive stimuli |
| younger\_stim\_osf.xlsx | Input | Stimulus details |
| Exp1.zip/alldata.csv | Output | Model data, E1 |
| Exp1.zip/curio-model-E1-OSF.R | Input | Analysis script, E1 |
| Exp2.zip/datacurorig.csv | Output | Model data from the curiosity condition, E2 |
| Exp2.zip/dataeucorig.csv | Output | Model data from the ED condition, E2 |
| Exp2.zip/datanovmax.csv | Output | Model data from the maximum subjective novelty condition, E2 |
| Exp2.zip/dataplastmax.csv | Output | Model data from the maximum plasticity condition |