1. PROJECT

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Title: Semantic context effects in Bengali-English bilingual and English monolingual speakers

Dates: September 2014- September 2017

Funding organisation: The Felix Trust, UK

2. DATASET

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Title: Semantic context effects in Bengali-English bilingual and English monolingual speakers

**Description:** We investigated the contribution of linguistic and executive control processes in semantic context effects for young healthy Bengali-English bilingual and English monolingual speakers. We collected blocked-cyclic naming data, executive control data and background measures to characterize each participant. This dataset contains the blocked-cyclic naming data as well as Stroop data in English from 25 Bengali-English bilinguals and 25 English monolinguals. The data from the blocked-cyclic naming task was collected using audio recorder, later transcribed orthographically. Demographic information and vocabulary testing data were collected using paper and pen tasks. Executive control tasks were assessed using computer-based tasks and were programmed and delivered using E-Prime. The groups were matched for receptive vocabulary, age, education and non-verbal intelligence.

These data could be used by future researchers to answer their specific questions regarding blocked-cyclic naming performances amongst different language users (e.g., monolinguals vs. bilinguals) as well as cognitive and linguistic underpinnings of the task (e.g., executive control measures, vocabulary measures).

Dataset accompanying the paper entitled: Patra A, Bose A, Marinis T (2020, under review). Semantic context effects in bilingual and monolingual speakers. Journal of Neurolinguistics.

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Rights-holder: Abhijeet Patra, University of Reading

3. TERMS OF USE

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4. CONTENTS

The dataset consists of six datasheets detailed below, with their contents:

1. <Means>: Contains individual level demographic details for each participant (age, sex, education); their background measures on vocabulary and IQ; performance on executive control tasks (Stroop, task switching task, and backward digit span), and mean performance across blocked-cyclic naming measures on different cycles and contexts, as well as their values of delta plot analysis for blocked-cyclic naming and Stroop task.
2. <Means-codes>: Contains the codes for each of the variables (i.e., columns) included in <Means>.
3. <Blockednaming>: Contains blocked-cyclic naming data for each item for every trails for each individual participant.
4. <Blockednaming-codes>: Contains the codes for each of the variable (i.e., columns) included in <Blockednaming>.
5. <Stroop>: Contains item level data for correct trials for all participants for the Stroop task for the neutral and incongruent conditions.
6. <Stroop-codes>: Contains the codes for each of the variable (i.e., columns) included in <Stroop>.

5. METHOD and PROCESSING

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The dataset was generated using orthographic transcription of audio files of blocked-cyclic naming data, pen and paper data from the background measures, and reaction time (RT) data for the blocked-cyclic naming task, Stroop and switching task.

A manuscript is currently in-review with the Journal of Neurolinguistics.

Patra A, Bose A, Marinis T (2020, under review). Semantic context effects in bilingual and monolingual speakers.