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Morphological convergence in Hungarian OTKA pt 2 (#136036)

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1) Have any data been collected for this study already?
No, no data have been collected for this study yet.

2) What's the main question being asked or hypothesis being tested in this study?
We expose participants to morphological variation in a matching game. We re-test them after the game and then after an intervening period of sleep. We expect learned variation to persist in the post test and the second post test.

3) Describe the key dependent variable(s) specifying how they will be measured.
Responses in a word matching game hosted online. Responses are always binary: variant A or variant B.

4) How many and which conditions will participants be assigned to?
- TYPE of morphological variation in MAIN task. (i) 1sg.indef verb variation, (ii) variation in verb stem epenthesis.
- RATE of use in MAIN task: SINGLE CONDITION. the co-player always uses a large amount of one variant (same variant for all co-players).
- Lexical TYPICALITY in MAIN task: SINGLE CONDITION. the co-player always uses variant B with prompts that are more likey to have variant A.
Within-participant conditions:
- Individual prompts in MAIN task are pre-rated by separate participants in a BASELINE task to ascertain where they are in the variation spectrum.
- Word-matching TEST with co-player followed by POST-TEST with no co-player in MAIN task followed by SECOND POST TEST after an intervening period of sleep.

5) Specify exactly which analyses you will conduct to examine the main question/hypothesis.
Binary responses in post-test and post-post test analysed. Hierarchical generalised linear regression. Formula: Response is variant A ~ word prompt BASELINE rate of variant A + is this the POST-TEST or a the SECOND POST-TEST + (1 + word BASELINE rate of variant A + is this the POST-TEST or the SECOND POST-TEST | participant) + (1 + is this the POST-TEST or the SECOND POST-TEST | word)

6) Describe exactly how outliers will be defined and handled, and your precise rule(s) for excluding observations.
Prompt words are assessed in a BASELINE rating task. Participants with 100% use of variant A or B in TEST or POST-TEST in main task are removed from analysis. Participants outside median +- 3 mean absolute deviation of condition-specific log odds of use of variant A / B also removed.
Trials with a response time outside outside median +- 3 mean absolute deviation of condition-specific response type distribution removed.

7) How many observations will be collected or what will determine sample size? No need to justify decision, but be precise about exactly how the number will be determined.
54 observations in MAIN,
54 in POST TEST
54 in SECOND POST TEST
162 Distinct target words for each participant.
21 participants per type of variation. All participants re-tested.

8) Anything else you would like to pre-register? (e.g., secondary analyses, variables collected for exploratory purposes, unusual analyses planned?)
This is an extension of the Morphological convergence in Hungarian OTKA preregistration on this site (https://aspredicted.org/blind.php?x=BL1_S7V). It uses the same paradigm. There is a second post test for the same participants after an intervening period of sleep.