Data Processing for Tip of the Tongue Study

1. Go to Coglab Server [\\128.252.27.5](file:///\\128.252.27.5)
2. Open Folder ‘Abhilasha’, and then the folder, ‘TOT Without Prime Retrieval’
3. There will be 2 folders: EDAT Files, and Coded Subject Files
4. Check the last coded Subject in Coded Subject Files, and open the EDAT File for the next Subject. Eg. If there is a file called Subject 3.xlsx in the coded Subject Files, then open the EDAT file for Subject 4.
5. Export the EDAT file to excel, and name the file correctly, i.e. Subject 4. NOTE: Make sure you save the file in the correct folder on the server – save these into the EDAT file folder.
6. Open the newly created Subject 4.txt file – this file is very big and should have a lot of columns and rows.
7. Delete the first row. Now, you should have ExperimentName as your first column.
8. Select the whole sheet by clicking the top-left box at the corner, and choose Custom Sort from the top panel.
9. Sort by ‘StimuliX’. If your subject is Subject 4, they should have a column Stimuli4. There are 12 such lists, so it could be Stimuli1…Stimuli12.
10. Once you sort the file, check that the StimuliX column goes from 1 to 72. Now you can delete the last few rows, that contain the PracticeStimuli and BreakProc.
11. Now we will select only a few columns from this file and copy them (Ctrl+C). The columns you need to select are:

Subject

Session

Trial

Prime[Trial]

PrimeResponse.RESP[Trial]

PrimeResponse.RT[Trial] Stimuli3

Target[Trial]

TargetDefinition.RESP[Trial]

TargetDefinition.RT[Trial]

TargetQuestion.RESP[Trial]

TargetQuestion.RT[Trial]

TargetResponse.RESP[Trial]

TargetResponse.RT[Trial]

PrimeCondition

1. Press Ctrl+N to open a new excel file and paste (Ctrl + V) these columns into the new file.
2. Create 4 new columns after the TargetResponse.RT[Trial] column. Name these columns as:

PrimeTyped

PrimeACTUAL

PrimeFirstResp\_ACC

TargetFirstResp\_ACC

1. Use the following formulas to remove spaces, and other characters from the actual responses.
2. For PrimeTyped: =SUBSTITUTE(E2,"{SPACE}","")

Note: E2 is the column titled “PrimeResponse.RESP[Trial]”, that contains what the participant typed in after they saw the prime flashing. We are removing the {SPACE} from their response so that we can do a simple string match.

1. For PrimeACTUAL: =SUBSTITUTE(D2," ","")

Note: D2 is the column titled “Prime[Trial]”, and contains the actual prime they received. Each letter of the prime has a space after it, and we want to remove that.

1. Now, for PrimeFirstResp\_ACC type =IF(P2=O2,1,0) in the first cell below the heading. This will simply match PrimeTyped with PrimeACTUAL, and enter 0 for incorrect, and 1 for correct.

NOTE: You will need to manually check all the responses marked as 0 for spelling errors, etc.

1. Manually code the TargetFirstResp\_ACC, by comparing TargetDefinition.RESP[Trial] with Target[Trial]. Code ‘0’ for incorrect responses, or any related words. Code ‘1’ for correct responses, and for responses that are close to correct, i.e. if they typed in “allocated” for “allocation”.
2. Save this file as SubjectX.xlsx into the Coded Subject Data folder on the server.