Cognition and Language

Week 4 Seminar Research Diary

Name (print):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name (sign):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date:\_\_\_\_\_/\_\_\_\_\_\_/\_\_\_\_\_\_\_\_ Team:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Describe the two phases of this experiment. What happened and what were you required to do? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The format of the data file you will is a bit complicated, but I have written a small Python script that can clean the file up for you. Download the Python script from myBU (under “Seminar Activities”→ “Seminar 4 – DRM” → Script to clean up data). Running the Python script isn’t hard, but it requires the files to be in the correct directory and using the command line, which may be unfamiliar to some of you:

1. Go to your user directory and create a new folder called “DRM”:

* Open the file manager (in the Taskbar).
* Click on Windows (C:).
* Click on User, then click on your username (i- or s-number).
* Click on New Folder, call it DRM.
* Copy the script file from myBU and your data (extracted from the ZIP file) into the new DRM folder.

2. Now run the script using the command line:

* Open the command line by pressing the Windows Key + R (the Windows key is between the ALT and the CTRL keys), then type "cmd" and press ENTER.
* In the command line, type "cd DRM" and press ENTER.
* Type "python clean\_drmtask.py drmtask\_XXXXX.csv" (Replace drmtask\_XXXXX.csv with your actual data file name) and press ENTER.
  + Note: You can save yourself all the typing by just entering “python c” in the command line, then pressing Tab (above Caps Lock) to autocomplete the script file name, then typing a space and “d” and pressing Tab again to autocomplete the data file name.
* This will create a cleaned up file named “drmtask\_clean.csv” which you can use for your further analysis.

3. Now open the “drmtask\_clean.csv” file in Excel and use a Pivot Table to analyse it:

* Open the file, then select insert -> Pivot Table.
* Important variables:
  + **givenResponse** = whether you thought the word was old (appeared in phase 1) or new
  + **reactionTime** = how long it took you to make your response; **score** = whether your response was correct (1) or incorrect (0)
  + **stimulusType** = in phase 2 this codes the independent variable “old”, “new”, or “lure”.

Questions:

1. What was your average accuracy (correct) for the old items? \_\_\_\_\_\_\_\_\_\_
2. What was your average accuracy (correct) for the new items? \_\_\_\_\_\_\_\_\_\_
3. What was your average accuracy (correct) for the lure items? \_\_\_\_\_\_\_\_\_\_
4. What was your average RT (reactionTime) for the old items? \_\_\_\_\_\_\_\_\_\_\_
5. What was your average RT (reactionTime) for the new items? \_\_\_\_\_\_\_\_\_\_\_\_
6. What was your average RT (reactionTime) for the lure items? \_\_\_\_\_\_\_\_\_\_\_\_\_