**Data extraction**

There are 2 experiments that we want to get the data from – McGurk experiment and Native – Non-native experiment. In each experiment, there are 2 test files; Clear & Noise for McGurk and Native & NonNative for Native-NonNative experiment. All subjects have to do all 4 tests so there should be 4 sets of data from 4 test files for each of them in the data sheet that your program/tool generated. The data details are listed below:

**McGurk experiment data file**

***Sample of the data***

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Subjec022, 06/29/2015 13:26:39 on ITP66820, refresh 16.67ms ID D,1,ZL

! Played 47 frames of 48 in lor\_Gv.avi

Item 36, -3116.15

3116.15,+2

! Played 49 frames of 50 in mik\_Ga.avi

Item 45, 2904.77

2904.77,+7

…

The information that we need from the data files is as follow (see ‘Ella Honours\_Excel data.xlsx - McGurk Template’ file for example of extracting data). The look-up key file is ‘McGurkKey.xlsx’:

1. Subject ID from D,1,ZL, which will be break down into 4 columns – **ID** (D,1,ZL), **Group** (first letter in ID – either D or C); **Subject** **number** (the letter after the first letter before initials – 1 in this case); and **Initials** (the participants’ initials – ZL in here);
2. **Item number**, e.g. Item 36 & Item 45 above;
3. **Stimulus file name**, e.g. lor\_Gv.avi and mik\_Ga.avi above. Note that in the Noise version these name will be lor\_Gv\_4dB.avi and mik\_Ga\_4dB.avi instead;
4. **Condition** – could be either *AO*, *AV\_C*, *AV\_M*, or *VO*, see look-up key file in Condition column, you can map the Item number with this condition code;
5. **Participant response**, e.g., +2 and +7 above;
6. **Reaction time**, e.g. -3116.15 and 2904.77 above. Note that positive number = correct and negative number = incorrect in the Accuracy column;
7. **Accuracy** – if reaction time is higher than 0 then accuracy = 1 if reaction time is less than zero (negative) then accuracy = 0;
8. **Response – Auditory**; **Response – Visual;** and **Response - Fused**, see look-up key file in columns with same names – this data can to be mapped with Condition or Item number whichever one is easier;
9. **Response descriptor** – either Correct or Incorrect or Ella to fill (or -2 as Johnson suggested; see look-up file).

Please note that there is a possibility that the same Item number could occur twice for each participant. If this happens, the first time that particular Item appears will always have ‘No Response’ instead of reaction time and the same Item number will replay again straight after that. In case of ‘No Response’ twice for that Item then we will have a missing data and you can just leave ‘No Response’ in the Participant response column, otherwise, you can just use the Reaction time from the 2nd play of that Item in the data (see ‘Ella Honours\_Excel data.xlsx – McGurk Template’).

For #4 & #8 above, if you think it’s too difficult to do and will cost more time then you can just leave them out.

**Native – NonNative experiment data file**

***Sample of the data***

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Subject 3, 06/29/2015 13:02:46 on ITP66820, refresh 16.67ms, ID D,1,ZL

Item RT

! DMDX is running in auto mode (automatically determined raster sync)

! Video Mode 1920,1080,32,60

! Item File <C:\Users\hotdesk\Desktop\ELLA'S TASKS\NNN\Ella\_NNN-N1.rtf>

12 3342.21

13 3285.74

14 -3423.42

11 3349.23

…

The information that we need from the data files is as follow ( also see ‘Ella Honours\_Excel data.xlsx - N-NN Template’ file for example of extracting data). The look-up key file is ‘N-NNKey.xlsx’:

1. Subject ID from D,1,ZL, which will be break down into 4 columns – **ID** (D,1,ZL), **Group** (first letter in ID – either D or C); **Subject** **number** (the letter after the first letter before initials – 1 in this case); and **Initials** (the participants’ initials – ZL in here) – **This is the SAME as in McGurk file**;
2. **Condition** could be either Native or NonNative depending on the file you get the data from.
3. **Item number** = first 2 number in each line, e.g. Item 12 & Item 13 above;
4. **Block** = to the first number of the Item number, e.g., 1 from 12;
5. **Trial** = the second number of the Item number, e.g., 2 from 12;
6. **Audio stimuli** get information from look-up file in column with same name;
7. **Reaction time**,e.g. 3342.21 and -3423.42 above. If more than zero then ‘Correct’; less than zero = ‘Incorrect’;
8. **Accuracy** – if reaction time is higher than 0 then accuracy = 1 if reaction time is less than zero (negative) then accuracy = 0;
9. **Target response** get information from **Target response** column in N-NNKey.xlsx;
10. **Participant response**, if ‘Correct’ then = Target response; if ‘Incorrect’ then OPPOSITE to Target response, e.g., **Target response** = SAME, **Accuracy** = 1, then **Participant response** = SAME; if **Target response** = DIFFERENT, **Accuracy** = 0, then **Participant response** = SAME;
11. **Response type** – check table below

|  |  |  |
| --- | --- | --- |
| **Target response** | **Participant response** | **Response Type** |
| *Same* | *Same* | ***CR*** |
| *Same* | *Different* | ***False+*** |
| *Different* | *Same* | ***Miss*** |
| *Different* | *Different* | ***Hit*** |

Note: the Item numbers are the same in both test files (Native and Non-Native).