**EXPORTING FILES IN ELAN**

1. Open up the .eaf file.
2. Go to File → Export As → Tab-delimited Text…
3. Select only the Adult Utterance Direction tier and deselect all the other tiers.
4. In the Output options area, make sure Exclude tier names from output, Exclude participant names from output, Begin Time, End Time, and msec are checked and that all other boxes are unchecked.
5. Hit OK. Save the file in the same folder where your .eaf file is saved and make sure the name looks something like username\_e20110628\_140555\_007562\_AUD.txt (Note the \_AUD which stands for Adult Utterance Direction at the end!) Then save.
6. Select UTF-8 encoding then hit OK.
7. If the file already exists, click YES to overwrite it.
   1. Repeat steps 2 through 7 but for infant utterance (vocal) type (use IUT as the file ending). NOTE: Steps 1-8 only need to be done once for each .eaf file once annotations are finished. If annotations are altered in .eaf file, must repeat 1-8.]

**FINDING PROPORTIONAL AGREEMENT FOR UTTERANCE BOUNDARIES**

*(reliability.py can be found /Users/lab/LENAInteraction/MemphisLENARecordings/elanfiles/reliability/)*

1. Open up a Terminal window. (The icon is a black box found on the Dock).
2. Type the following into the Terminal command line and then press enter: *cd ./LENAInteraction/MemphisLENARecordings/elanfiles/reliability/*
3. Type the following into the X11/Terminal command line:

*4.     perl codes2timebins.pl    ../../../../Gina/ReliabilityChecksData/WW08\_****UsernameInitials****\_Reliability\_Check\_AUD.txt 1* ***startms******endms*** *../****../../../****Gina/ReliabilityChecksData/WW08\_****UsernameInitials****\_Reliability\_Check\_AUD\_ts\_****startms****\_****endms****.txt*

5.     Changing the UsernameInitials to your own initials.

6.     Changing startms to be the time in ms in the recording where you want reliability calculation to start.

7.     Changing endms to be the time in ms in the recording when you want reliability to end.

*8.*For example, for the first 10 minutes (0 ms to 600000 ms): *perl codes2timebins.pl ../../../../Gina/ReliabilityChecksData/WW08\_SC\_AUD.txt 1 0 600000 ../../../../Gina/ReliabilityChecksData/WW08\_SC\_AUD\_ts\_0\_600000.txt*

1. Repeat step 11, but using IUT instead of AUD.
2. Type the following at the command line: *python reliability.py ../../../../Gina/ReliabilityChecksData/WW08\_UsernameInitials\_Reliability\_Check\_AUD\_ts\_****startms****\_****endms****.txt ../../../../Gina/ReliabilityChecksData/WW08\_Master\_Annotation\_File\_AUD\_ts\_****startms****\_****endms****.txt ../../../../Gina/RelibailityChecksData/PercentAgreement\_WW08\_****UsernameInitials****\_Master\_AUD\_****startms****\_****endms***.txt (replacing username, startms, and endms as above). Note: if the Master ts txt file does not exist for the time interval in question, it will need to be generated as well, using the procedure describe above.
3. Repeat step 13, but using IUT instead of AUD. Repeat all the steps for any other time intervals for which you want to compute reliability.

**FINDING PROPORTIONAL AGREEMENT AND COHEN’S KAPPA FOR ADULT UTTERANCE DIRECTION AND INFANT UTTERANCE TYPE (2 CODERS)**

*(reliabilityDataFrame.R, reliabilityAgreementKappa. R, and IUTlabelConversion.R can found be /Users/lab/Gina/ReliabilityChecksData/ReliabilityScripts/)*

1. Open up reliabilityDataFrame.R in the program R.

2. Change the directory path and filenames accordingly. This script should generate two files (one for each coder) each containing one column of data. Currently it can take up to 6 files only for each the master annotations and reliability annotations.

3. Open up reliabilityAgreementKappa.R. If the infant utterance type labels need to be converted to the current labels being in used (X, C, R), then run the script IUTlabelConversion.R before calling the function to convert the labels.

* Running the IUTlabelConversion script
  + Open in R and run it. This should create a function called IUTConversion. This function takes in 3 inputs, path, inputFilename, and outputFilename. Using the example below, call the function IUTConversion to convert the labels.
  + *IUTConversion(“/Users/lab/Gina/ReliabilityChecksData/”, “masterListIUT.txt”, “masterListIUTConverted.txt”)*

4. Run the script first and then call the function.

* Example calling the agreementKappa function:
* *agreementKappa (“/Users/lab/Gina/ReliabilityChecksData/”, “masterFile.txt”, “reliabilityFile.txt”, “agreementKappa4blank.txt”)*

**FINDING KAPPA MAX (2 CODERS)**

*(kmaxDataFrame.R, maxobs.R, kmaxFunction3x3.R can found be /Users/lab/Gina/ReliabilityChecksData/ReliabilityScripts/)*

1. Open up kmaxDataFrame.R in the program R.

2. Change the directory path and filenames accordingly. This script should generate two files (one for each coder) each containing three columns of data.

3. Open up 3x3.py. Edit the script as noted. Save the script before moving to the next step.

4. Open up terminal.

5. Change the directory to, in this example*, cd  /Users/lab/Gina/ReliabilityChecksData/*

6. Using the files generated from step 2, type in the following in terminal: *python 3x3.py “..****/rater1filename****.txt” “../****rater2filename****.txt” “../****ouptutFilename****.txt”*

7. Referencing the results from the newly created output file, enter the data into the relaibilityCalcTemplate to find maxobs (maximum observation). To find the maximum observed, sum up the lowest marginal proportions. The ordering of the output file should be in alphabetical order. You can check your work using the script maxobs.R.

8. Now open up kmaxFunction3x3.R and run it before calling the function. Call the function and enter the values for each variable. A kappa max coefficient should be returned.