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# poshlscript
# written by JSS and WGF 24/11/08
# Praat version 5.0.06

#this script incorporates the previous script to take measures from l
(ltrack_010208)
#and implements this over a set of files in a directory
#to use, go to the directory where the files to be analysed are stored (and only
these with
# their TextGrids, with exactly the same name before the .wav/.TextGrid
extension),
# start Praat, and open this script.
#Running the script will start the 'form', into which you must specify:
#-the directory for the results .csv files
#-the speaker's name (will be used to create the filenames, so if there are more
than
#one folders of words for one speaker, call her, Saiqa1, Saiqa2 etc)
#-the interval tier which has the l labelling into trans_in, steady, trans_out,
vowel
#-the interval tier which has the topic

#tip: this script creates a set of single files (Alltracks, boundtrack = just
formant
#values at 0 and 5, durations, steady states) each of which will contain by the
end all the
#output measures for all the words for that directory

#tip: if the script has error that it can't find a filename, check that the
extension
#e.g. .wav, is in lowercase (praat can't cope with .WAV)




form take measures for /l/
        word sound_extension .wav
        word textGrid_extension .textGrid
        comment enter filename for raw output from script
        word raw_extension .txt
        comment enter directory for output results files
        text directory C:\
        comment enter name of speaker to identify output results files
        word speaker girl
        comment enter number of tier which contains /l/ portions
        natural lsegment_tier 1
        comment enter number of tier which contains topic of talk
        natural topic_tier 12
endform

clearinfo

filename$ = "'directory$''speaker$' alltracks.csv"
if fileReadable (filename$)
        print File Exists !!!'newline$'
        print Click on Continue to overwrite'newline$'
        pause
endif
filedelete 'filename$'
fileappend "'filename$'" Word, Topic, Portion, Counter, Step, Time, F1, F2, F3,
F4'newline$'


filename1$ = "'directory$''speaker$' boundtracks.csv"
if fileReadable (filename1$)
        print File Exists !!!'newline$'
        print Click on Continue to overwrite'newline$'
        pause
endif
filedelete 'filename1$'
```

```
fileappend "'filename1$'" Word, Topic, Portion, Counter, Step, Time,
F2'newline$'


filename2$= "'directory$''speaker$' Durations.csv"
if fileReadable (filename2$)
        print File Exists !!!'newline$'
        print Click on Continue to overwrite'newline$'
        pause
endif
filedelete 'filename2$'
fileappend "'filename2$'" Word, Topic, Portion, Counter, duration'newline$'


filename3$= "'directory$''speaker$' Steadystates.csv"
if fileReadable (filename3$)
        print File Exists !!!'newline$'
        print Click on Continue to overwrite'newline$'
        pause
endif
filedelete 'filename3$'
fileappend "'filename3$'" Word, Topic, F1, F2, F3, F4'newline$'


mySounds = Create Strings as file list... sounds *'sound_extension$'
nSounds = Get number of strings

for iSound to nSounds
        select mySounds
        sound$ = Get string... iSound

        name$ = sound$ - sound_extension$
        textGrid$ = name$ + textGrid_extension$

        mySound = Read from file... 'sound$'
        myTextGrid = Read from file... 'textGrid$'

        select myTextGrid

        topic$ = Get label of interval... topic_tier 1

        n = Get number of intervals... lsegment_tier

        j0= 0
        for j from 1 to 4
                fm1 = 0
                fm2 = 0
                fm3 = 0
                fm4 = 0
                select myTextGrid
                repeat
                        portion$ = Get label of interval... lsegment_tier j+j0
                        if portion$ = ""
                                j0= j0+1
                        endif
                until portion$ <> ""

                time0 = Get starting point... lsegment_tier j+j0
                timee = Get end point... lsegment_tier j+j0
                duration = timee - time0
                nstep= 10
                step = duration / nstep
                lasttime = timee - step
                print portion 'j' 'portion$' :'newline$'
                print start 'time0:4', end 'timee:4', duration 'duration:4',
stepsize 'step:4', last time point 'lasttime:4''newline$'
                fileappend "'filename2$'" 'name$', 'topic$', 'portion$', 'j',
'duration:4''newline$'
```

```
tformant = time0
printline tformant 'tformant'

select mySound
To Formant (burg)... 0 4 5500 0.025 50

for i from 0 to nstep - 1
        f1= Get value at time... 1 tformant Hertz Linear
        f2= Get value at time... 2 tformant Hertz Linear
        f3= Get value at time... 3 tformant Hertz Linear
        f4= Get value at time... 4 tformant Hertz Linear
        printline f1: 'f1:0'; f2: 'f2:0', f3: 'f3:0'; f4: 'f4:0'
        ji = (j-1)*10 + i
        fileappend "'filename$'" 'name$', 'topic$', 'j', 'i',
'ji', 'tformant:4', 'f1:0', 'f2:0', 'f3:0', 'f4:0''newline$'

        if i = 0
                fileappend "'filename1$'" 'name$', 'topic$',
'portion$', 'i', 'ji', 'tformant:4', 'f2:0''newline$'
        endif

        if i = 5
                fileappend "'filename1$'" 'name$', 'topic$',
'portion$', 'i', 'ji', 'tformant:4', 'f2:0''newline$'
        endif

        if j = 2
                fm1= fm1 + f1 / nstep
                fm2= fm2 + f2 / nstep
                fm3= fm3 + f3 / nstep
                fm4= fm4 + f4 / nstep
        endif
        tformant= tformant + step
endfor

if j = 2
        print mean formant steady state 'tab$' 'fm1:0' 'tab$'
'fm2:0' 'tab$' 'fm3:0' 'tab$' 'fm4:0''newline$'
        fileappend "'filename3$'" 'name$', 'topic$', 'fm1:0',
'fm2:0', 'fm3:0', 'fm4:0''newline$'
endif

if j = 4
        f1= Get value at time... 1 tformant Hertz Linear
        f2= Get value at time... 2 tformant Hertz Linear
        f3= Get value at time... 3 tformant Hertz Linear
        f4= Get value at time... 4 tformant Hertz Linear

        print 'tformant:4' 'tab$' 'f1:0' 'tab$' 'f2:0' 'tab$'
'f3:0' 'tab$' 'f4:0''newline$'
        ji = 40
        fileappend "'filename$'" 'name$', 'topic$', 'j', 'i',
'ji', 'tformant:4', 'f1:0', 'f2:0', 'f3:0', 'f4:0''newline$''newline$'

        fileappend "'filename1$'" 'name$', 'topic$', 'portion$',
'i', 'ji', 'tformant:4', 'f2:0''newline$''newline$'
        endif

        print end of measures for portion 'j''newline$'
        fappendinfo 'speaker$''raw_extension$'

    endfor
    print end of measures for 'name$''newline$'

endfor
```