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#author: Francesco Li Santi
#date: 12 August 09
#name of script: measurements_word_like
#Praat version: 5.1

#script function: takes duration of the steady period of the lateral
#takes midpoint of the steady segment, and then F1, F2 and F3 at midpoint
#takes the duration of the dipthong and the mid point of this segment
#then it takes F1, F2 and F3 of the first and last quarter of the dipthong
#then takes segments with qualitative information of the occlusive (hold and
release stage)
#takes the duration of the full word
#takes the preceding and following phonetic environment of the segment (like)
#takes Goldvarb coding from Goldvarb tier
#then takes qualitative information from ltier, vtier and ktier


#script should be in the same directory as sound/textgrid files
#sound/textgrid files must have exactly the same names
#script must be run from the object menu
#the 'segmentation' tier must have 5 segments
#remember to 'show formants'




form Set up results file
      word sound_extension .wav
      word textgrid_extension .textgrid
      comment Please type in the name of your results file.
      comment This file will be saved into the same directory as the
sound/TextGrid file.
      comment This file must end in .csv
      text filename [add here].csv
endform

clearinfo

#this sets up the column headings of the new file, and moves to the next line

fileappend "'filename$'" Steady, Duration, Midpoint, F1, F2, F3, Vowel,
Vduration, F1 1, F2 1, F3 1, F1 2, F2 2, F3 2, Label 1, Label 2, Durationword,
Preceding, Following, Goldvarb, Ltier, Vtier, Ktier, 'newline$'


#this bit takes all the files in the directory and turns them into a list of
strings
# (i.e. filenames without numbers) for PRAAT to read

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

#This bit is the loop which sequentially takes each item in the string,
#identifies that item as a sound file, reads the file (pulls it into the object
window),
#and the selects it (highlights it in the object menu – this is necessary for
any operation to be performed on it).
#The end of the loop is the endfor at the end


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

	name$ = sound$ - sound_extension$
	printline 'name$'

	textGrid$ = name$ + textGrid_extension$

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

	select myTextGrid


	steady = Get label of interval...lsegment 2

#calculate the duration of this segment
#calculate the midpoint of this segment

	time1 = Get starting point of interval... lsegment 2
	time2 = Get end point of interval... lsegment 2
	duration = time2 - time1
	printline 'duration'
	midpoint = time1 + duration/2
	printline 'midpoint'


	To Formant (burg)... 0 5 5500 0.025 50

	f1= Get value at time... 1 midpoint Hertz Linear
	f2= Get value at time... 2 midpoint Hertz Linear
	f3= Get value at time... 3 midpoint Hertz Linear

	printline f1: 'f1:0', f2: 'f2:0', f3: 'f3:0'

	select mySound


	vowel = Get label of interval... vsegment 2

	time1 = Get starting point... vsegment 2
	time2 = Get end point... vsegment 2
	duration = time2 - time1
	printline 'vduration'
	quarter = duration/8
	midpoint1 = 1/8* duration

	To Formant (burg)... 0 5 5500 0.025 50

	f1= Get value at time... 1 midpoint Hertz Linear
	f2= Get value at time... 2 midpoint Hertz Linear
	f3= Get value at time... 3 midpoint Hertz Linear

	midpint2 = 7/8* duration

	To Formant (burg)... 0 5 5500 0.025 50

	f1= Get value at time... 1 midpoint Hertz Linear
	f2= Get value at time... 2 midpoint Hertz Linear
	f3= Get value at time... 3 midpoint Hertz Linear
```

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#FIND OUT HOW TO TAKE FORMANT MEASUREMENTS FOR FIRST AND LAST QUARTER??? and
printline missing
#midpoint1 = time 1 + 1/4 duration/2
#midpoint2 = time 2


#midpoint1 = time1 + time3 1/4 duration
#midpoint2 = time2 - time4/2

      select myTextGrid

#take the content of the label for occlusive

      occlusive hold = Get label of interval... ksegment 2
      printline 'label1'
      occlusive release = Get label of interval...ksegment 3
      printline 'label2'

#take the duration of the full word

      word duration = Get label of interval... ttier 2

      time1 = Get starting point... ttier 2
      time2 = Get end point... ttier 2
      duration = time2 - time1
      printline 'durationword'


#take the preceding and following phonetic environment

      preceding = Get label of interval... segmentation 1
      printline 'preceding'
      following = Get label of interval... segmentation 5
      printline 'following'

#take Goldvarb coding

      goldvarb = Get label of interval... goldvarb
      printline 'goldvarb

#take qualitative information of segments

      lateral = Get label of interval... ltier
      printline 'ltier'
      vowel = Get label of interval... vtier
      printline 'vtier'
      occlusive = Get label of interval... ktier
      printline 'ktier'




endfor
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