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#date: 3 March 09
#name of script: formant_loop
#Praat version: 5.0.06

#script function: to take first three formant measures from midpoint of vowel
#from a set of already segmented word (sound/Textgrid) files, which have also
#been labelled in advance

#script should be in same directory as sound/textgrid files
#sound/textgrid files must have exactly the same names
#script must be run from the Object menu

form take vowel formant measures
  word sound_extension .wav
  word textGrid_extension .textGrid
  comment output file will be created in same directory as sound files
  comment type in name of output file (must end in .csv)
  text filename [add here].csv
  comment enter number of tier which contains vowel segmenting
  natural vowel_tier 1
endform

clearinfo

fileappend "'filename$" Word, Midpoint, F1, F2, F3 'newline$'

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$
  printline 'name$'

  textGrid$ = name$ + textGrid_extension$

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

  select myTextGrid

  vowel = Get label of interval... vowel_tier 2

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

  select mySound

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

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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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println f1: 'f1:0'; f2: 'f2:0', f3: 'f3:0'
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fileappend "'filename$'" 'name$', 'midpoint:3', 'f1:0', 'f2:0', 'f3:0'  
'newline$'
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endfor
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