Structure of a typical Praat script

- set parameters (such as file names for tracking formants)
- open files (or just select objects that are already open) and remove them when finished
- read a textgrid (to choose where to make measurements)
- generate an object to measure (in this case, a Formant object)
- use a for loop to go through the potential measurement points and an if statement to screen them
- make the measurements
- write the results to a text file
- COMMENTS (ignored by Praat)

```
#PROMT THE USER FOR INPUT
      form Measure formant values for segments in a textgrid
10
11
          sentence sound file myname
12
          positive maximum_formant 5500
13
          positive number_of_formants 5
14
      endform
15
16
      #DELETE THE OLD FORMANT FILE IF IT EXISTS
17
      filedelete formants_'sound_file$'.txt
      #SELECT THE SOUND AND FIND THE FORMANTS
      select Sound 'sound file$'
20
21
     To Formant (burg)... 0 'number_of_formants' 'maximum_formant' 0.025 50
      select TextGrid 'sound file$'
24
25
     intervals = Get number of intervals... 1
28
      for i from 2 to intervals-1
          select TextGrid 'sound_file$'
29
30
          phone$ = Get label of interval... 1 I
          if phone$ != "" and phone$ != "sp"
33
36
              start = Get starting point... 1 i
```

```
end = Get end point... 1 I
37
38
               quarter = start + (end-start) / 4
39
               halfway = start + (end-start) / 2
40
               three_quarters = start + (end-start) * 3 / 4
43
               j = Get interval at time... 2 halfway
44
               word$ = Get label of interval... 2 j
46
               word start = Get starting point... 2 j
47
               word_end = Get end point... 2 j
50
               if start = word start
                   left$ = "#"
51
52
               else
53
                   left$ = Get label of interval... 1 i-1
54
               endif
55
56
57
               if end = word end
58
                   right$ = "#"
59
               else
60
                   right$ = Get label of interval... 1 i+1
61
               endif
62
63
               #MEASURE F1 AND F2 AT THREE TIMES
               select Formant 'sound file$'
64
65
               f1_1 = Get value at time... 1 'quarter' Hertz Linear
               f2_1 = Get value at time... 2 'quarter' Hertz Linear
f1_2 = Get value at time... 1 'halfway' Hertz Linear
66
67
               f2_2 = Get value at time... 2 'halfway' Hertz Linear
68
               f1 3 = Get value at time... 1 'three quarters' Hertz Linear
69
70
               f2_3 = Get value at time... 2 'three_quarters' Hertz Linear
71
72
               #RECORD THE FORMANT MEASUREMENTS
73
               fileappend formants_'sound_file$'.txt
'word$','left$','phone$','right$','f1_1','f2_1','f1_2','f2_2','f1_3','f2_3''newline
$'
74
          endif
75
      endfor
77
      select Formant 'sound_file$'
78
      Remove
```