Automatic data processing with Praat

Deadline: 12.12.2007

3 Exercise

Load all `wav` files in sounds.zip and `TextGrid` files in TextGrids.zip into Praat.
Write scripts that do the following for each *pair* of corresponding objects:

1. Output the duration of every *non-empty* interval on every tier.

   ```
   TextGrid aufnahme_1:
    Tier 1, Interval 2: 1.3981931227651192 seconds
    Tier 1, Interval 4: 1.5129768626103308 seconds
   # etc.
   ```

2. Output the ratio of the duration of the word "praat" in each sentence to the total duration of that sentence (in %).

3. Output the mean pitch of each vowel (tier 3).

4. Output the mean F_1 and F_2 frequencies of *all* "a" vowels.

5. Do the same for all schwas.

Extra. Write a script that does all of the above for all pairs of `wav` and corresponding `TextGrid` file in a directory. Modify the scripts you wrote to allow them to be called or executed from this script.