PLOTNIK/PRAAT Workshop.

Plotnik09.4 has been developed to interact with PRAAT to achieve greater accuracy and speed in vowel analysis. If PRAAT has been used to analyze the F1/F2 positions of vowels, it remains closely linked to Plotnik09.4. When a vowel system is displayed and heard in Plotnik, clicking on a given (outlier) token immediately switches to PRAAT, displaying the spectrum for that word with the cursor at the point of measurement. If new measurements are made, with adjustment of formant settings or time of measurement, the difference in F1/F2 position is displayed on the Plotnik field and may be selected as a corrected value. Duration measurements can now be integrated into Plotnik displays. Plotnik09.4 also enumerates the words in each vowel, and charts individual words as well as phonemes. It displays linear regression lines for each vowel, indicating how many tokens lie outside of a given number of standard deviations.

Plotnik09.4 is also suitable for studying very large numbers of vowel measurements for a given speaker (ca. 5,000 for an hour of speech), using forced alignment and the extractFormants program introduced at NWAV38.

The Workshop will introduce users to these and other new Plotnik functions, and will distribute new documentation.