Vowel 1

a	684.6265	82.04408	1701833
e	467.2935	35.84834	2279013
i	378.2714	38.95234	2420520
o	507.5776	48.14584	1404892
u	423.1694	64.93884	1403106

Scatterplot

F1 and F2 by vowel
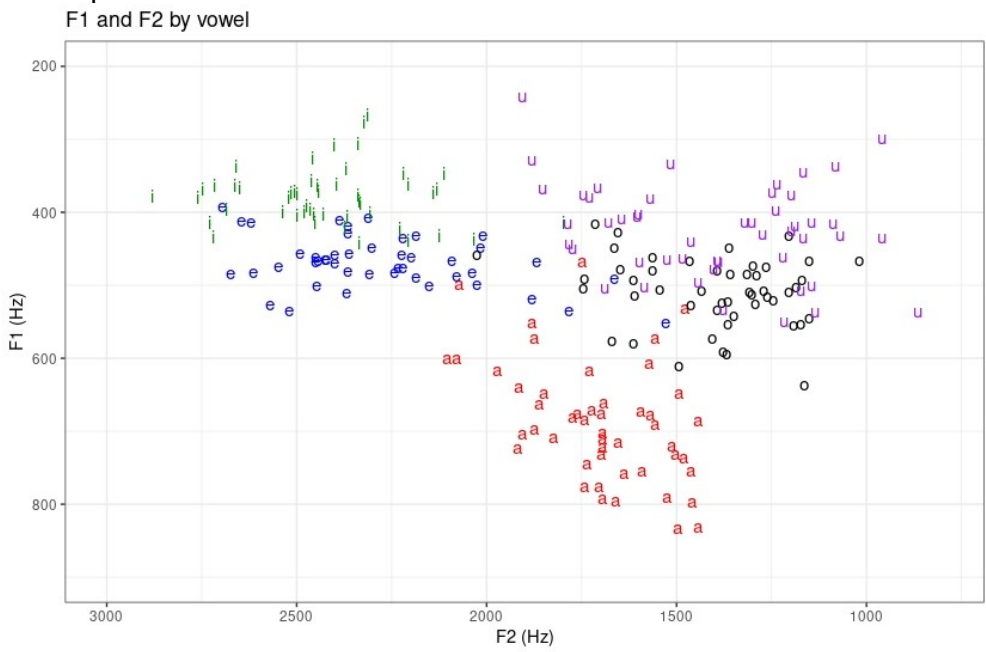
Scatterplot means

Mean F1 and F2 by vowel
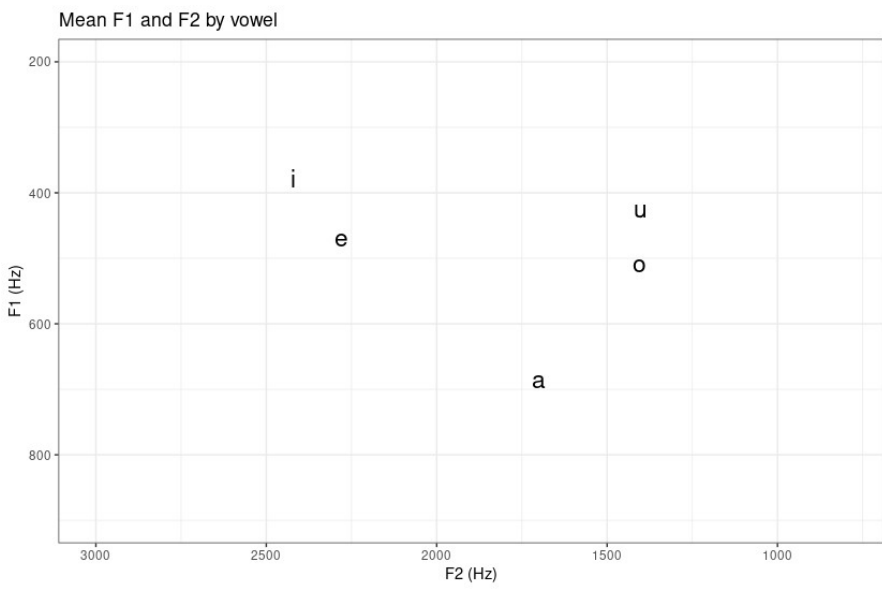
1. /i/ and /e/ have high F2 values, mostly of 2kHz. /a/ has a lower F2 between 2kHz and 1.5kHz. /o/ and /u/ have low F2 values ranging from about 1.75kHz to 1kHz.

/i/ and /u/ have low F1 values, /i/ being mostly between 300 Hz and 400 Hz and /u/ between about 350 Hz and 500 Hz. /e/ and /o/ are lower, with /e/ averaging around 400-500 Hz and /o/ from 400-600. /a/ has the greatest dispersion in F1, ranging from less than 600 to over 800.

2. The means scatterplot lacks information pertaining to intra-vowel dispersion of F1 and F2 values as well as overlap between different vowel clusters. These are only visible in the full scatterplot.