TAVALRAY

Tool for Assessing Vocalic Articulation from Low-Resource Analysis on YouTube

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This is an automatically generated report.

1. General data

• YouTube ID: 0_K90lm-8yA

• Duration of recording: 00:13:12.43

• **Speaker:** 20210303

· Sex: M

· Palette used for vowels:

i: I e æ ə ∧ 3: ʊ u: ɔ: ɒ ɑ:

2. SPPAS-aligned data

Data aligned by SPPAS (Bigi, 2012b).

2.1. General data

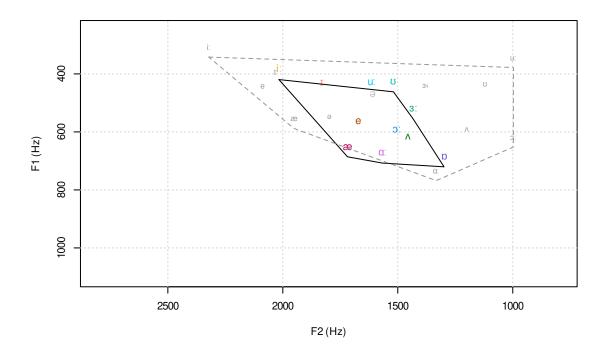
• Total number of vowels collected: 3416

• Total number of vowels collected (function words excluded): 1583

2.2. Vocalic space

Compared to US values from Hillenbrand (1995)

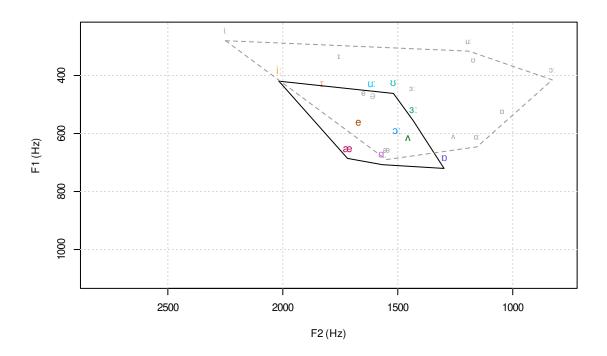
References: (Hillenbrand, Getty, Clark, et al., 1995)



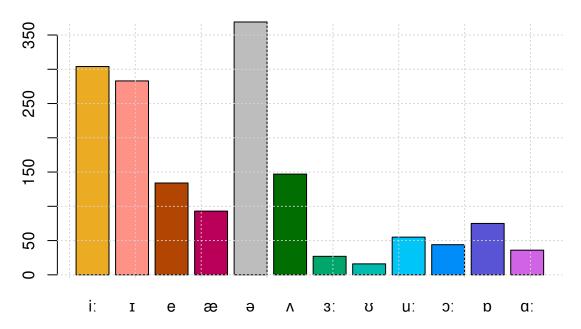
Compared to UK values from Deterding (1997)

References: (Deterding, 1997)

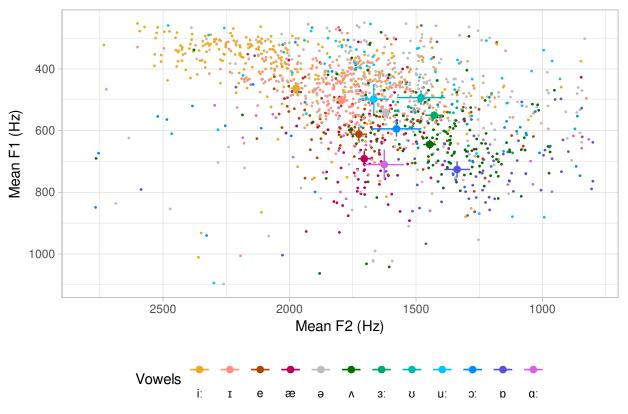
2.3 Vowel distribution March 10, 2021



2.3. Vowel distribution



2.4. Scatter plot of all vowels (function words excluded)



Bars measure standard error

3. P2FA-aligned data

Data aligned by P2FA (Yuan and Liberman, 2008).

This is an automatically generated report.

3.1. General data

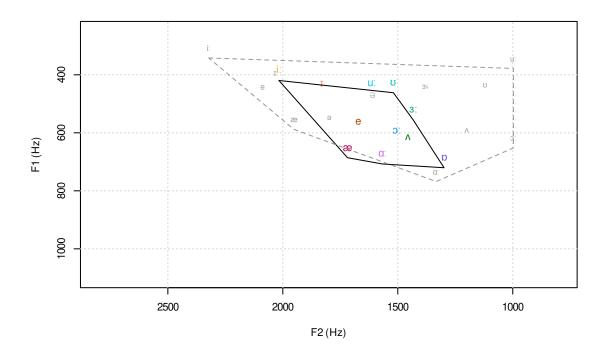
• Total number of vowels collected: 3620

• Total number of vowels collected (function words excluded): 1310

3.2. Vocalic space

Compared to US values from Hillenbrand (1995)

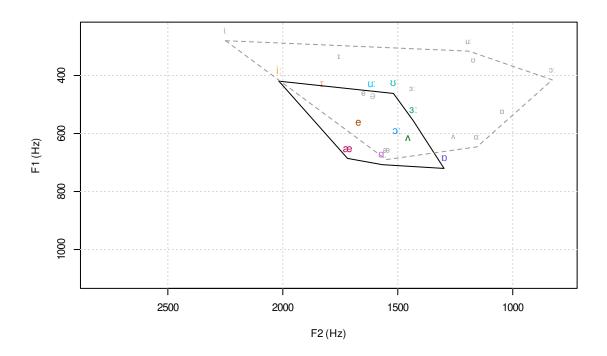
References: (Hillenbrand, Getty, Clark, et al., 1995)



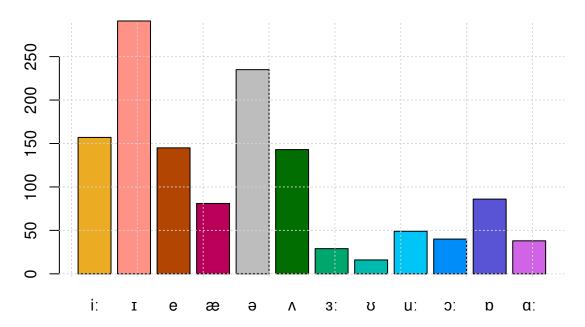
Compared to UK values from Deterding (1997)

References: (Deterding, 1997)

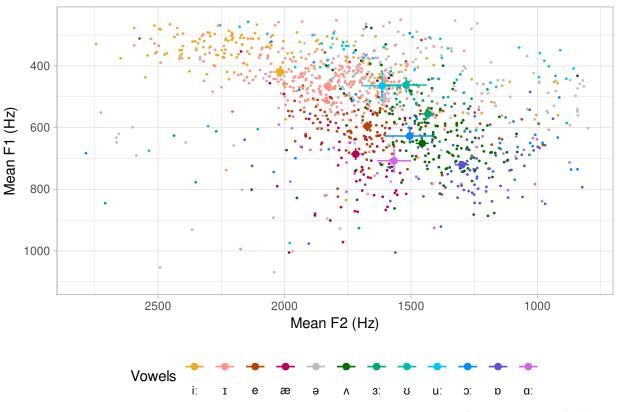
3.3 Vowel distribution March 10, 2021



3.3. Vowel distribution







Bars measure standard error

4. References

Bigi, B. (2012b). "SPPAS: a tool for the phonetic segmentations of Speech." In: *The eight international conference on Language Resources and Evaluation*. Istanbul, pp. 1748-1755.

Deterding, D. (1997). "The Formants of Monophthong Vowels in Standard Southern British English Pronunciation." In: *Journal of the International Phonetic Association* 27.1-2, pp. 47-55. DOI: 10.1017/s0025100300005417. URL: https://doi.org/10.1017/s0025100300005417.

Hillenbrand, J., L. Getty, M. J. Clark, et al. (1995). "Acoustic characteristics of American English vowels." In: *The Journal of the Acoustical society of America* 97.5, pp. 3099-3111.

Yuan, J. and M. Liberman (2008). "Speaker identification on the SCOTUS corpus." In: *Journal of the Acoustical Society of America*, 123(5), pp. 5687-5690.