Report

# First Formant Estimates

## Live

Jack produced the closed cardinal vowels /i/ and /u/, Afolabi produced the open cardinal vowels /α/ and /a **/.**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Frequency (Hz) | **F1 Means** | | | | **F2 Means** | | | |
| **Trial** | 1 | 2 | 3 | Average | 1 | 2 | 3 | Average |
| **i** | 161.6 | 347.3 | 325.4 | 278.1 | 2170 | 1958 | 2207 | 2111.67 |
| **u** | 261.5 | 342.1 | 293.8 | 299.13 | 838.5 | 920.6 | 1108 | 955.7 |
| **α** | 691.9 | 849.8 | 653.6 | 731.77 | 569.6 | 656.6 | 959.6 | 728.6 |
| **a** | 774.2 | 771.4 | 848.8 | 798.13 | 1585 | 1670 | 1675 | 1643.3 |

|  |  |  |
| --- | --- | --- |
| Stabilisation times (s) | **F1** | **F2** |
| **i** | 7 | 4 |
| **u** | 2 | 2 |
| **α** | 2 | 3 |
| **a** | 3 | 4 |
| **Average** | 3.5 | 3.2 |

## Recorded

Jack recorded files for the four cardinal vowels.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Frequency (Hz) | **F1 Means** | | | | **F2 Means** | | | |
| **Trial** | 1 | 2 | 3 | Average | 1 | 2 | 3 | Average |
| **i** | 345.0 | 344.6 | 347.2 | 345.6 | 2012.2 | 2024.2 | 2034.4 | 2023.6 |
| **u** | 475.0 | 470.2 | 468.8 | 471.33 | 651.2 | 644.0 | 645.6 | 646.93 |
| **α** | 787.8 | 787.2 | 788.7 | 787.9 | 958.8 | 969.0 | 960.5 | 962.77 |
| **a** | 837.0 | 839.6 | 835.3 | 837.3 | 1267.5 | 1275.4 | 1261.5 | 1268.13 |

## Conclusions

According to Catford [1], the

# References

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| [1] | J. C. Catford, in *A Practical Introduction to Phonetics*, Oxford, Oxford University Press, 1988, p. 161. |