Jonathan Buie

Data Visualization of Confusion Matrices

All of the visuals will be made available to the group. Currently focusing on the Consonants.

**STOPS Final Positon**

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| For the stops in final position we have many of the consonants with not much separation between groups….however, |
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| For ‘t’ in final position there may be some information to gain from this. Very high entropy. |

**Stops Initial Position**

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| In comparison, t in initial position has hardly any separation |
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| K has a similar result in initial and final positions |
| **\\ad.uillinois.edu\engr\instructional\buie1\Desktop\local_work\Research_local\table_Data_inProgress\fig\HPeInitial_p.eps** |
| P in initial Position has some separation but still high entropy. |

**Nasals Final Position**

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| What can be made of results like this? And similarly\\ad.uillinois.edu\engr\instructional\buie1\Desktop\local_work\Research_local\table_Data_inProgress\fig\HPeFinalL.eps | |
| **\\ad.uillinois.edu\engr\instructional\buie1\Desktop\local_work\Research_local\table_Data_inProgress\fig\HPeFinal_m.eps** | **\\ad.uillinois.edu\engr\instructional\buie1\Desktop\local_work\Research_local\table_Data_inProgress\fig\HPeFinal_n.eps** |
| This stood out to me because I feel we should see a lower entropy for ‘m’ and ‘n’ since they are commonly mistaken for each other | |
| **\\ad.uillinois.edu\engr\instructional\buie1\Desktop\local_work\Research_local\table_Data_inProgress\fig\HPeFinal_r.eps** | |
| These results stood out as some of the worst. Even when trying to decode the listeners this letter was most commonly reported multiple times | |

**Nasals Initial Position**

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| Much different results for ‘r’ in initial position. NOTE: It appears that for most kids ‘r’ was presented very few times, how reliable is this as a result? | |
| **\\ad.uillinois.edu\engr\instructional\buie1\Desktop\local_work\Research_local\table_Data_inProgress\fig\HPeInitial_m.eps** | **\\ad.uillinois.edu\engr\instructional\buie1\Desktop\local_work\Research_local\table_Data_inProgress\fig\HPeInitial_n.eps** |
| Once again ‘m’ and ‘n’ | |
| \\ad.uillinois.edu\engr\instructional\buie1\Desktop\local_work\Research_local\table_Data_inProgress\fig\HPeInitialL.eps | |
| ‘L’ in initial position | |

**Fricatives Initial Position**

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**Fricative Final Position**

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| Lots of errors for RD group and lower entropy, want to investigate what errors are being made |
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| More separation then most other cases. |
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| Very good separation between groups. But we see Anton is an outlier here. |
| \\ad.uillinois.edu\engr\instructional\buie1\Desktop\local_work\Research_local\table_Data_inProgress\fig\HPeFinal_z.eps |
| Similar to the ‘Z’ cased |