Multidimensional signals and analytic flexibility: Estimating degrees of freedom in human speech analyses Supplementary materials

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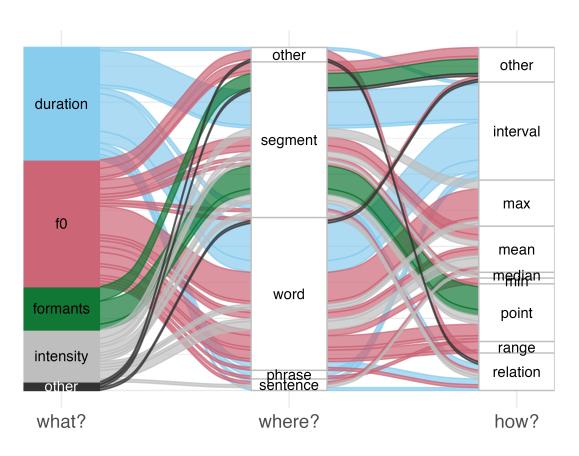


Figure 1: Sankey plot illustrating workflow choices from analyst teams.

Table 1: Descriptive statistics of all contributing teams and their acoustic and statistical analyses. The summary includes data from 46 teams and 159 analysts.

| Team characteristics | | Range | Media |
|-------------------------------|----------------------------------|--------------|-------|
| | Team size | 1.0 - 12.0 | 3. |
| | Years after PhD | -3.8 - 16.0 | 4. |
| | Prior belief | 46.4 - 92.8 | 70. |
| | Acoustic analysis peer rating | 36.5 - 90.0 | 75. |
| | Statistical analysis peer rating | 22.5 - 95.0 | 72. |
| | Overall peer rating | 20.0 - 91.5 | 72. |
| Acoustic analyses | | n | 9 |
| Outcome | F0 | 51 | 35. |
| | Duration | 41 | 28. |
| | Intensity | 19 | 13 |
| | Formants | 18 | 12 |
| | Multivariate | 1 | 0 |
| | Other | 12 | 8 |
| Temporal window | Word | 60 | 42 |
| | Segment | 60 | 42 |
| | Phrase | 7 | 5 |
| | Sentence | 6 | 4 |
| | Pause | 1 | 0 |
| | Other | 6 | 4 |
| Typicality operationalization | Categorical | 95 | 69 |
| | Continuous (mean) | 33 | 24 |
| | Ordinal | 5 | 3 |
| | Continuous (median) | 3 | 2 |
| | Other | 1 | 0 |
| tatistical analyses | | \mathbf{n} | |
| Framework | Frequentist | 108 | 76 |
| | Bayesian | 27 | 19 |
| | Other | 7 | 4 |
| Model | Linear model | 125 | 88 |
| | GAM | 12 | 8 |
| | Machine learning | 3 | 2 |
| | Other | 2 | 1 |
| | | Range | Media |
| N | Models | 1 - 16 | |
| | Predictors | 1 - 7 | |
| | Random terms | 1 - 10 | |
| | Intercept | 1 - 10 | |
| | Slope | 0 - 5 | |