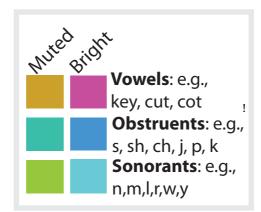
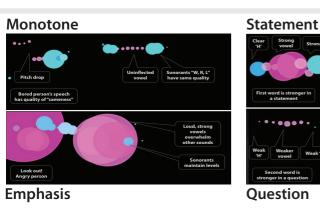
## Visualizing Vocal Expression

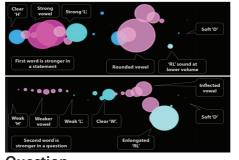


Lead Student: Mary Pietrowicz Faculty: Karrie Karahalios University of Illinois

- How well can users interpret the expression visualizations?
- Which styles do users prefer for others' speech?
- Which styles do users prefer for their own speech?
- Which variations of the elements within the styles do users prefer, and why?

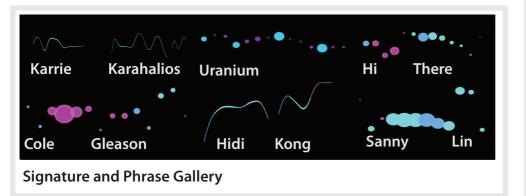


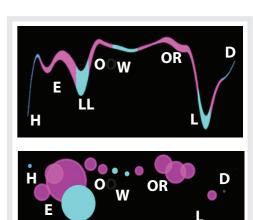




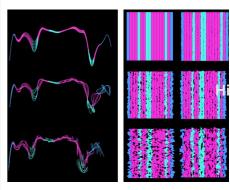
**Ouestion** 

Same Phrase Spoken 4 Ways: "Hello World"





"Hello, World," in Ribbons (top) and Bubbles (bottom). Bubble size and line thickness map to amplitude. Curve (vertical position) shows pitch contour.



"Hello, World," in Threads (left) and Strips (right). Shows increasing qualitative inflection.

