

IPRO 316

Improving Voice Recognition Prompts

Fall 2010



Background

- Voice recognition
- Hyperarticulation
- Talker characteristics



Problem and Goals

- Problem
 - Error prompts induce hyperarticulated speech
- Goals
 - Find characteristics within speech to prevent hyperarticulation



Team Structure

- Team Leader: Naomi Peterson
- Test Administration: Andy Bossemeyer, Robert Millonzi, Alex Webster, Nithin Winston
- Data Analysis: Vincent Echavarria, Shawn Gopal, Gabriel Klansky, Ruth Morrison



Current Accomplishments

- Learned acoustic foundations of speech
 - Collected and analyzed existing error prompts
 - Reviewed research on speech intelligibility
 - Completed ethics training
 - Developed experimental design
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Experiment

- What talker characteristics lead to the most intelligible speech?
 - Testing 2 variables within error prompt
 - Rate of speech
 - Inflection
 - Developing simulated voice recognition experiment
 - Anticipated results
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Upcoming Challenges

- Administering Experiment
 - Recruiting participants
 - Resources for testing
 - Ethically testing participants
- Analyzing Results
 - Determining conclusions
 - Possible improvements



Questions?

