## **TTS Evaluation**

Julia Hirschberg CS 4706

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- Intelligibility Tests
- Mean Opinion Scores
- Preference Tests

## Intelligibility Tests

- Diagnostic Rhyme Test (DRT)
  - Listening test
  - Listeners choose between two words differing by a single phonetic feature (voicing, nasality, sustenation, sibilation)
  - DRT: 96 rhyming pairs
    - Dense/tense, bond/pond, ...
      - Subject hears dense, chooses either dense or tense
      - % of correct answers is intelligibility score
  - Problem: Only tests single word synthesis

- Modified DRT:
  - 300 words, 50 sets of 6 words (went, sent, bent, tent, dent, rent)
  - Embedded in carrier phrases:
    - Now we will say dense again
- Mean Opinion Score
  - Have listeners rate output on a scale from 1 (bad) to 5 (excellent)
- Preference tests:
  - Reading addresses out loud, reading news text, using two different systems or systems against human voice
  - Do a preference test (prefer A, prefer B)