

Recordings and data preparation

- Six females: 3 actresses and 3 singers
- Recordings: acoustical isolated booth, an AKG microphone and a Boss recorder
- Segmentation: sentences, **syllables, phones**
- Praat: annotation
- Syllable alignment algorithm DTW algorithm (Matlab)

Syllables and phones: linguistic units \approx musical notes

- 12 spoken texts ; 12 sung texts
 - 150 sentences
 - 1710 syllables (approximately)

Acoustic measures and statistical analysis

- Duration: syllable label time (final time)
- F0: Praat (10 ms frame shift); averaged over syllable or phone
 - Mean values and variance (F-Test)
 - T- Test
 - Anova: to verify subjects effect