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Voice Identification

The identification process is designed to determine whether voices are from the same individual or different individuals.

Voice identification requires a series of complex procedures. They range from the study of phonetics of the voices to technical analysis of the speech content. It is usual practice to have a known and an unknown voice. Basic steps include the following:

1. Acquisition of exemplars (samples) of both known and unknown voices.
2. Careful preparation of recordings used for testing and study.
3. Aural comparisons of the selected material to include:
 - A. Pitch content
 - B. Voice phrasing
 - C. Volume
 - D. Colloquialisms
 - E. Buccal resonance
 - F. Syntax
 - G. Syllabic pacing
4. Preparation of voice spectrograms (voice fingerprints)
5. Application of Formant tracking algorithms
6. Sound waveform comparisons
7. Study of graphical displays of acquired data

Describing the actual procedures and their functions would require a lengthy document.

Should you have specific questions about the process, please let me know and I will be happy to explain in detail.

Skip Frazee