SPAU 133

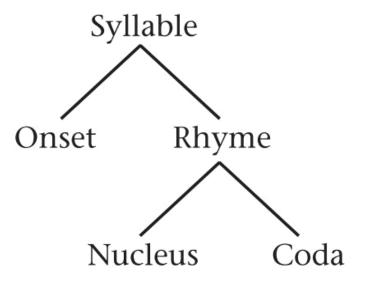
Syllables + Anatomy of Human Speech Production

What are syllables?

They are units of speech.

What are they made of?

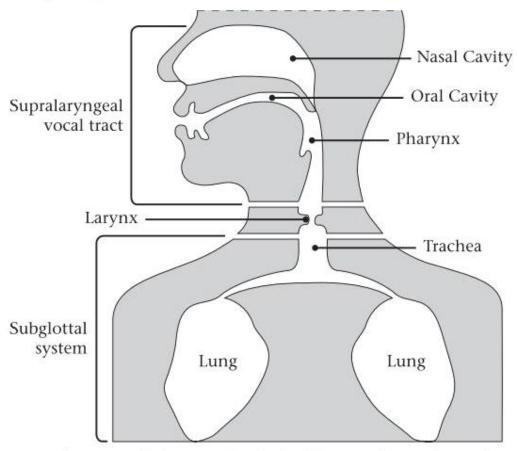
(1) Syllable structure



Anatomy of Human Speech Production

- Larynx (also called the voice box): contains the vocal folds.
- Vocal tract: contains the oral and nasal cavities.
- Sub-glottal system: which is part of the respiratory system located below the larynx.

(1) The speech production mechanism.



From Lieberman and Blumstein, *Speech physiology, speech perception, and acoustic phonetics* (1988), p. 4. Copyright 1988 Cambridge University Press. All rights reserved. Reprinted with permission.

Types of Airflow Mechanisms

Pulmonic (coming from the lungs) eggresive (air flowing out)

• Glo	ottalic egreesive: The air is compressed as the glottis moves upward.	

Glottalic ingressive: when the air is in lower pressure than usual as the glottis moves downward.

