

For M.A. I Students

By:

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Phonology

• the study of word-to-word relations in sentences; that is, how sound patterns are affected by the combination of words. For example, /g∂v/give and /h∂m/ him may combine to /g∂v∂m/ give him.











Phonology

- Phonology involves two studies:
- A. Phonetics: The study of the production, transmission, and reception of speech sound.
- B. Phonemic: the study of the sounds and sound patterns of a specific language







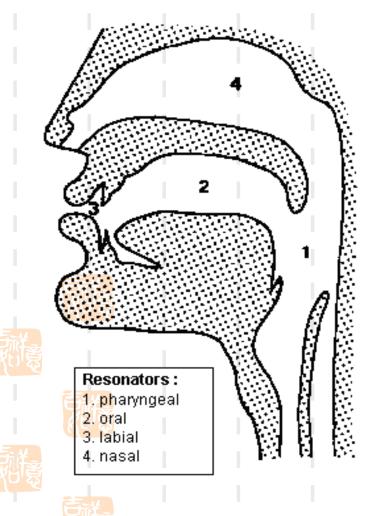
Three stages in speech chain

- The production of the message
- The transmission of the message
- The reception of the message
 - Articulatory phonetics
- 新模
- Acoustic phonetics
- Auditory phonetics









- The principal cavities or resonators:
 - -the pharyngeal cavity
 - -the oral cavity
 - -the nasal cavity
 - -the labial cavity

The Organ of Speech

- The jaw
- The lips
- The teeth
- The teeth ridge (alveolar ridge)
- The vocal cords

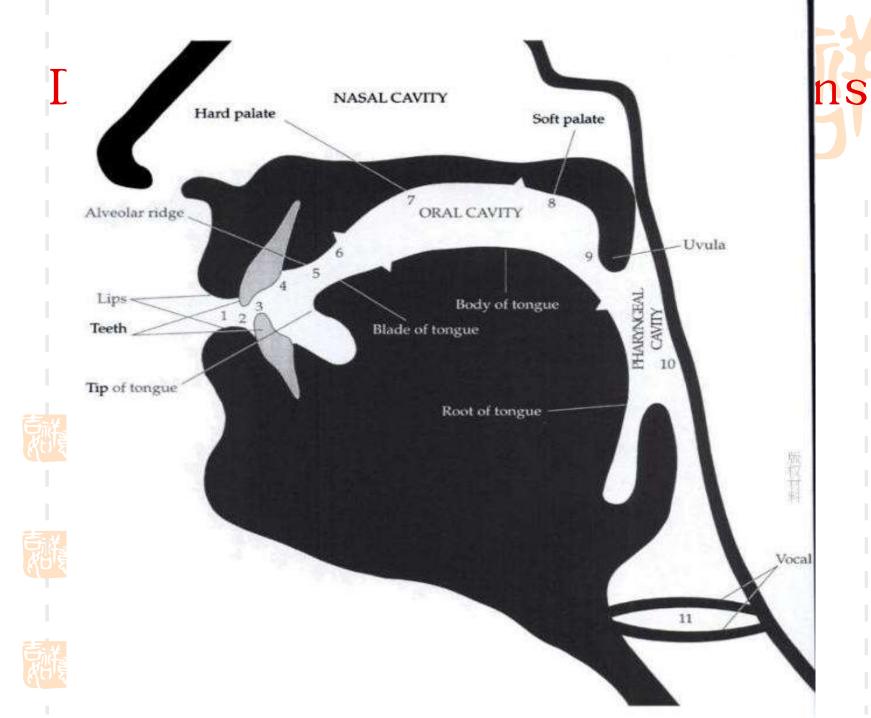






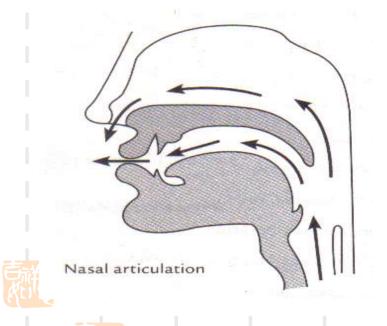


- The tongue
- The hard palate
- The soft palate
- The uvula
- The larynx
- The pharynx



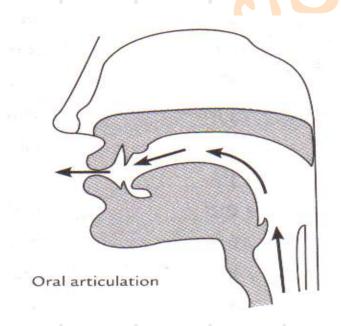
THE POSITION OF THE VELUM

NASAL ARTICULATION



/m/ main, demand, seem /n/ nest, deny, sin /ŋ/ singer, bang





/p, t, k, b, d, g, s, z, f, v, ∫, , ð, t ∫, d ʒ/









Definition of Consonants & Vowels

Consonants: the sounds in the production of which there is an obstruction of the air- stream at some point of the vocal tract.

Vowels: the sounds in the production of which no articulators come very close together and the air-stream passes through the vocal tract without obstruction.

Consonants

The place of articulation the manner of articulation.



(2)Place of Articulation

When describing the place of articulation, what we usually consider is the place within the vocal tract where the articulators form a structure.































PLACE OR POINT OF ARTICULATION

Place of articulation	Examples
Bilabial using closing movement of both lips.	/p, b, m/ as in pain, describe, main
Alveolar produced with the tongue tip on or near the tooth ridge	/ d, t, n, l/ as in to, do, new, and light
Labio – dental using the lower lip and the upper teeth.	/f, v/ as in rifle, value
Inter Dental the tongue tip i sused either between the teeth or close to the upper teeth.	/ð , ⊖/ as in thick, then
Palato-alveolar the blade (or tip) of tongue is used just behind the alveolar ridge	/s, z/ as in seal, zeal
Palatal the front of the tongue is raised close to the palate	/ʃ, tʃ, ʒ, dʒ /as in chow, Jim,show, beige.
Retroflex the trip of the tongue curls back to touch or nearmy the hard plate	/r/ as in rye
Velar the back of the tongue is used againts the soft palate	/k, g, n/ as in kite, go, and bang
Glottal the [h] word sound	/h/ as in house, who.

Manner of Articulation

- the way in which a speech sound is produced by the speech organs.
- A. Voiced
- B. Voiceless Sounds











Voiced Sounds

Speech sounds which are produced with the vocal cords vibrating are called "voiced". Such vibration can be felt when touching the neck in the region of the larynx .For example:

a. the /d/ in /den/ den is a voiced b. the /z/ in /zɪŋk/ zinc is a voiced





Voiceless Sounds

- Speech sounds which are produced without vibration of the vocal cords
- For example, in English:
- A. the /t/ in /tɪn/ tin is a voiceless
- B. the /s/ in /sæd/ sad is a voiceless









MANNER OF ARTICULATION

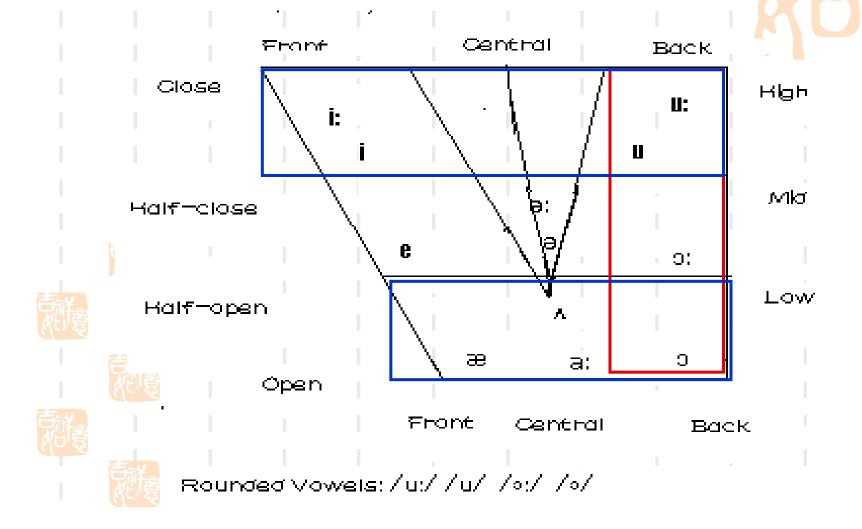
Manner of articulation	Voiceless	Voiced	
Stop or Plosives when the airstream is blocked or stopped completely before its realease, we refere to the resulting explosion of sound as stop (or plosive)	/p,t,k/	/b,d,g/	
Fricative when two vocal organs come close enough together for the movement of air between them to be heard	/f/, /⊖/,/s/,/∫/	/v/,/ð/,/z/, /ʒ/	
Affricate in two instances, sounds are a combination of a stop and final a fricative. These two sounds, knows as affricates.	/t∫/	/dʒ/	
Nasal Another set of sounds is produced when air passes through the nasal cavity, thi soccurs when the oral passage is closed and the velum moves forward to free th enasal cavity.	/m/, /n/, /ŋ/		
Lateral or Liquid is a partial closure is made by the blade of the tongue against the alveolar ridge. Air is able to flow around the sides of the tounge	/\/		
Approximant vocal organs come near to each other, but not so close as to cause audible friction,		/r/,/w/	

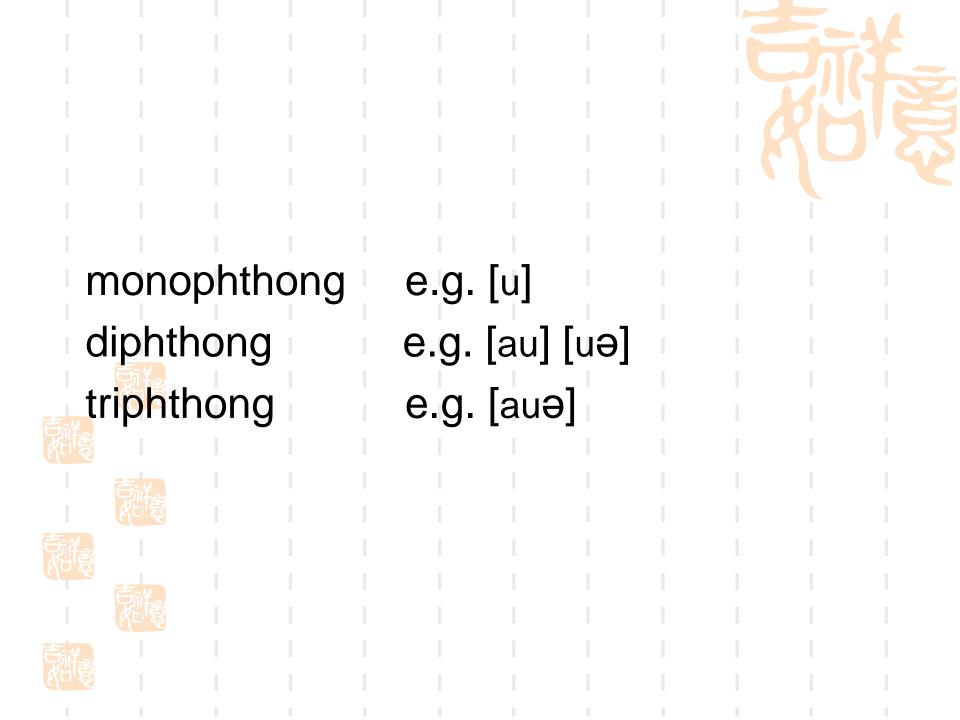
Manner of	Place of Articulation:							
Articulation:	Bilabial	Labiodental	Interdental	Akeolar	Palatal	Vehr	Glottal	
Stop voiceless voiced	b b			t d		8		
Nasal	m			n		ŋ		
Voiceless voiced		f v	8	s z	ر 3		h	
Affricate voiceless voiced					c			
Clide voiceless voiced	M W				ĵ	M W	h	
Liquid				lı				





A Diagram of English Vowels





suprasegmentals

- stress
- pitch
- tone
- Intonation



They relate to aspects of pronunciation that go beyond the production of individual segments.



Stress and pitch

[,u:nl'v3:sətl]









