*Phonetics (음성학) vs. Phonology (음운론)

phonetics, the study of the production and description of speech sounds, **Phonology**, study of the <u>sound</u> patterns that occur within languages.

Phonetics, the study of <u>speech</u> sounds and their physiological(생리적인) production and acoustic(소리의, 음향학적) qualities. It deals with the configurations(요소의 상대적배치, 형태) of the vocal tract(기관) used to produce speech sounds (articulatory phonetics 조음음성학), the acoustic properties of speech sounds (acoustic phonetics 음향음성학), and the manner of combining sounds so as to make syllables, words, and sentences (linguistic phonetics). Auditory phonetics 청각음성학

Phonology, study of the <u>sound</u> patterns that occur within languages. Some linguists include <u>phonetics</u>, the study of the production and description of speech sounds, within the study of phonology.

Diachronic (historical) phonology examines and constructs theories about the changes and modifications in speech sounds and sound systems over a period of time. For example, it is concerned with the process by which the English words "sea" and "see," once pronounced with different vowel sounds (as indicated by the spelling), have come to be pronounced alike today. Synchronic (descriptive) phonology investigates sounds at a single stage in the development of a language, to discover the sound patterns that can occur. For example, in English, *nt* and *dm* can appear within or at the end of words ("rent," "admit") but not at the beginning.

https://www.britannica.com/science/phonetics/Phonological-rules

*Phoneme (음소) vs. allophone (이음); minimal pair (최소대립쌍)

Phoneme: The smallest unit of sound that can be altered to change the meaning of a word is called a phoneme (L&C)

Phonemes are the linguistically contrastive or significant sounds (or sets of sounds) of a language. Such a contrast is usually demonstrated by the existence of **minimal pairs** or **contrast in identical environment (C.I.E.)**. Minimal pairs are pairs of words which vary only by the identity of the **segment** (another word for a single speech sound) at a single location in the word (eg. [mæt] and [kæt]). If two segments contrast in identical environment then they must belong to different phonemes. A **paradigm** of minimal phonological contrasts is a set of words differing only by one speech sound. In most languages it is rare to find a paradigm that contrasts a complete **class** of phonemes (eg. all vowels, all consonants, all stops etc.).

http://clas.mq.edu.au/speech/phonetics/phonology/phoneme/index.html

Phoneme, in <u>linguistics</u>, smallest unit of <u>speech</u> distinguishing one word (or word element) from another, as the element p in "tap," which separates that word from "tab," "tag," and "tan." A <u>phoneme</u> may have more than one variant, called an <u>allophone</u> (q.v.), which functions as a single sound; for example, the p's of "pat," "spat," and "tap" differ slightly phonetically, but that difference, determined by <u>context</u>, has no significance in English. In some languages, where the variant sounds of p can change meaning, they are classified as separate phonemes—e.g., in <u>Thai</u> the aspirated p (pronounced with an accompanying puff of air) and unaspirated p are distinguished one from the other.

<u>Phonemes</u> are based on spoken language and may be recorded with special symbols, such as those of the <u>International Phonetic Alphabet</u>. In transcription, linguists conventionally place symbols for phonemes between slash marks: /p/. The term *phoneme* is usually restricted to vowels and consonants, but some linguists extend its application to cover phonologically relevant differences of pitch, <u>stress</u>, and rhythm. Nowadays the phoneme often has a less central place in phonological theory than it used to have, especially in American linguistics. Many linguists regard the phoneme as a set of simultaneous distinctive features rather than as an unanalyzable unit.

Allophone, one of the phonetically distinct variants of a <u>phoneme</u> (*q.v.*). The occurrence of one allophone rather than another is usually determined by its position in the word (initial, final, medial, etc.) or by its phonetic <u>environment</u>. Speakers of a <u>language</u> often have difficulty in hearing the phonetic differences between allophones of the same <u>phoneme</u>, because these differences do not serve to distinguish one word from another. In English the *t* sounds in the words "hit," "tip," and "little" are allophones; phonemically they are considered to be the same <u>sound</u> although they are different phonetically in terms of <u>aspiration</u>, voicing, and point of articulation. In Japanese and some <u>dialects</u> of Chinese, the sounds *f* and *h* are allophones. https://www.britannica.com/topic/allophone

The Articulation of Phonetic Sounds

http://www.phonetics.ucla.edu/course/chapter1/chapter1.html

	Class	sification o	f NAE C	Consonar	nt Phoner	nes	
Manner of Articulation	Place of Articulation						
	Bilabial	Labiodental	Dental	Alveolar	Palatal	Velar	Glottal
Stop Voiceless Voiced	р			t		k	
	b	240		d		g	
Fricative Voiceless Voiced		f	θ	s	ſ	-	h
		V	ð	z	3		
Affricate Voiceless Voiced	C				t∫		
					d ₃		
Nasal Voiced	m			n		ŋ	
Liquid Voiced				Î	r		
Glide Voiced	w				У		

Figure 1 Classification of NAE consonant phonemes +/hw/ (Celce-Murcia et al. 2010)

Celce-Murcia et al. (2010). Chapter 3. The Consonant System, Chapter 4. The Vowel System.

Figure 2 American and British Pronunciation Differences

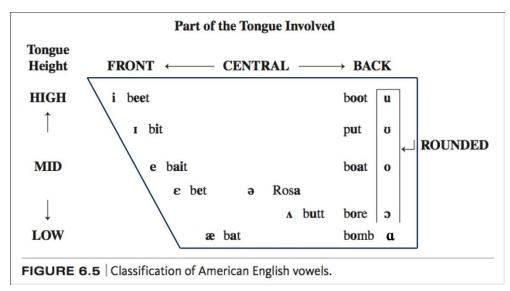
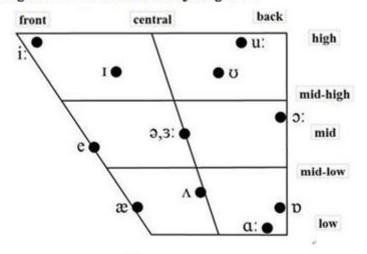
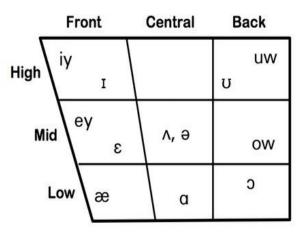


Figure 3 http://www.imagequiz.co.uk/quizzes/95279020

Figure 1. The vowel chart of English &



Simple & Glided Vowels



(Roach, 2004, p242)~

Figure 4 British English Received Pron

Roach, P. (2004). British English: Received Pronunciation, Journal of the International Phonetic Association 34 (2), 239– 245.

Tongue Position

http://en.wikipedia.org/wiki/Vowel

Figure 5 The Vowel Chart of NAE

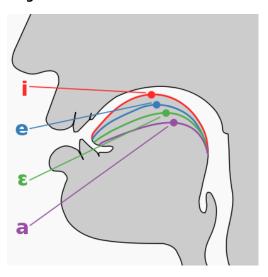


Figure 6 Tongue Position