

English Phonetics (2019 Fall)

1. English consonants & vowels

(1) English consonants

p	pie	pea		lowercase <i>p</i>
t	tie	tea		lowercase <i>t</i>
k	kye	key		lowercase <i>k</i>
b	by	bee		lowercase <i>b</i>
d	dye	D		lowercase <i>d</i>
g	guy			lowercase <i>g</i>
m	my	me	ram	lowercase <i>m</i>
n	nigh	knee	ran	lowercase <i>n</i>
ŋ			rang	eng (or angma)
f	fie	fee		lowercase <i>f</i>
v	vie	V		lowercase <i>v</i>
θ	thigh			theta
ð	thy	thee		eth
s	sigh	sea	listen	lowercase <i>s</i>
z		Z	mizzen	lowercase <i>z</i>
ʃ (ʒ)	shy	she	mission	esh (or long s)
ʒ (ʒ)			vision	long z (or yogh)
l	lie	lee		lowercase <i>l</i>
w	why	we		lowercase <i>w</i>
r	rye			lowercase <i>r</i>
j (y)		ye		lowercase <i>j</i>
h	high	he		lowercase <i>h</i>

Note also the following:

tʃ (tʃ)	chi(me)	chea(p)
dʒ (dʒ)	ji(ve)	G

(2) English vowels

	1	2						
monophthongs	i	i	heed	he	bead	heat	keyed	lowercase <i>i</i>
	ɪ	ɪ	hid		bid	hit	kid	small capital <i>I</i>
	eɪ	eɪ	hayed	hay	bayed	hate	Cade	lowercase <i>e</i>
	ɛ	ɛ	head		bed			epsilon
	æ	æ	had		bad	hat	cad	ash
	ɑ	ɑ	hard		bard	heart	card	script <i>a</i>
	ɒ	ɒ	hod		bod	hot	cod	turned script <i>a</i>
	ɔ	ɔ	hawed	haw	bawd		cawed	open <i>o</i>
	u	u	hood				could	upsilon
	ou	əu	hoed	hoe	bode		code	lowercase <i>o</i>
	u	u	who'd	who	bood	hoot	cood	lowercase <i>u</i>
	ʌ	ʌ	Hudd		bud	hut	cud	turned <i>v</i>
	ɜ	ɜ	herd	her	bird	hurt	curd	reversed epsilon
	aɪ	aɪ	hide	high	bide	height		lowercase <i>a</i> (+I)
diphthongs	au	au		how	bowed		cowed	(as noted above)
	ɔɪ	ɔɪ		(a)hoy	Boyd			(as noted above)
	ɪr	ɪr		here	beard			(as noted above)
	er	ɛə		hair	bared		cared	(as noted above)
	aɪr	aə	hired	hire				(as noted above)

Note also:

ju	ju	hued	hue	Bude		cued	(as noted above)
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모든 자음은 voiced/voiceless로 구분할 수 있다.

모든 모음은 voiced 이다.

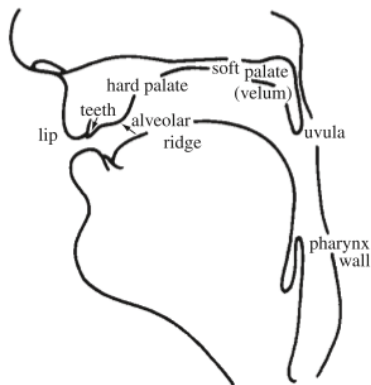
2. Phonetics

Phonology는 음운론으로 소리를 인지하는 영역과 그 과정에 대한 것이다.

Phonetics 음성학은 Articulatory phonetics와 Acoustic phonetics, Auditory phonetics로 구분할 수 있다.

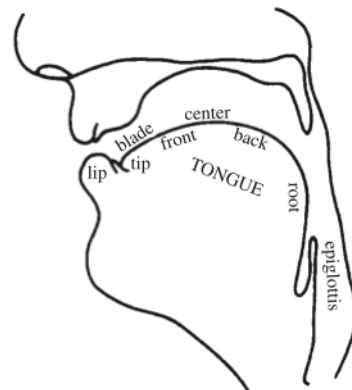
3. Articulation

Vocal tract(upper)

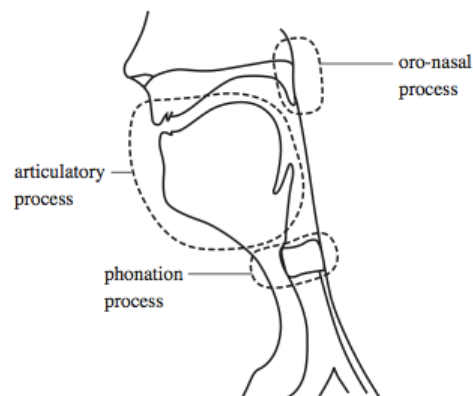


Vocal tract(lower)

Tongue으로 이루어짐



5 speech organs =constrictors =articulators



4. Phonation process in larynx

Larynx(성대, 후두)

(1) Vocal cords vibration

Phonations process에서 발생

Larynx = voicebox

Voiced: can feel vibration

e.g. v, z, l, m, a, i

Voiceless: can't feel vibration

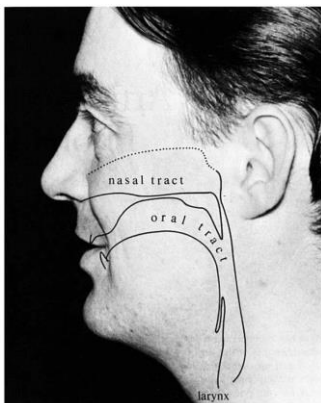
e.g. f, s, k, p, h

5. Oro-nasal process in velum

코로 숨을 쉴 때, nasal-track 열리고, velum이 하강한다.

Velum이 하강할 때:

Nasals: m n ng



6. Articulatory process in lips/ tongue tip/ tongue body

조음 process – lips, tongue tip, tongue body

a-pa, a-ta, a-ka

7. Control of constrictors(articulators)

각각의 constrictor는 location과 degree에 따라 구분할 수 있다.

- Constriction location (CL)

Lips의 경우 location의 측면에서 Bilabial, Labiodental로 구분.

Tongue body: Palatal, Velar

Tongue tip: Dental, Alveolar, Palato-Alveolar

- Constriction degree (CD)

Upper part – Lower part