Phonetics and Phonology B. Yuniar Diyanti

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1. Sounds, Spelling, and Symbols

There is no one-to-one correspondence between the English spelling and pronunciation

- There are 26 alphabets, but there are 44 sounds (24 consonants, 12 vowels, 8 diphthongs)
- the case of the imaginary word *ghoti*
- one letter is represented by more than one sounds: $u \rightarrow [a]$ in $sh\underline{u}t$, [ju] in $c\underline{u}te$, [u] in $p\underline{u}t$
- one sound may be represented by more than one letters: [u] \rightarrow put, book

2. Pronunciation practice

The IPA Symbols of the English Sounds

Vowels		Diphthongs		Consonants			
i:	b <u>ea</u> d	ei	c <u>a</u> ke	p	<u>p</u> in	S	<u>s</u> ue
Ι	h <u>i</u> t	oi	t <u>oy</u>	b	<u>b</u> in	Z	<u>z</u> 00
u	b <u>oo</u> k	ai	h <u>igh</u>	t	<u>t</u> o	ſ	<u>sh</u> e
u:	f <u>oo</u> d	iə	b <u>eer</u>	d	<u>d</u> o	3	mea <u>s</u> ure
e	l <u>e</u> ft	uə	f <u>ewer</u>	k	<u>c</u> at	h	<u>h</u> ello
ə	<u>a</u> bout	еә	w <u>here</u>	g	got	m	<u>m</u> ore
3:	sh <u>ir</u> t	əu	<u>go</u>	t∫	<u>ch</u> air	n	<u>n</u> o
0:	c <u>a</u> ll	au	h <u>ou</u> se	₩	ju <u>dge</u>	ŋ	si <u>ng</u>
æ	h <u>a</u> t			f	<u>f</u> an	l	<u>l</u> ive
Λ	r <u>u</u> n			v	<u>v</u> an	r	<u>r</u> ed
a:	f <u>ar</u>			θ	<u>th</u> ink	j	<u>y</u> es
0	d <u>og</u>			ð	<u>th</u> e	W	<u>w</u> ood

3. Organs of Speech

4. Airstream Mechanism

The English airstream mechanism is called the pulmonic egressive airstream mechanism:

- pulmonic: because air from the lung is used
- egressive: because the air is pushed out (not breathed in / ingressive like the click language)
- the mechanism of air flow in sound production in which the air from the lung is pushed out

Describing Consonants

Consonants can be described in terms of:

- 1. Places of articulation
- 2. Manner of articulation
- 3. Voicing

Major consonantal features based on the place of articulation:

- Bilabials: the two lips are the primary articulators; [p], [b], [m]
- Labiodentals: the upper teeth is placed on the lower lip; [f], [v]
- Interdentals: the tip of the tongue is inserted in between the upper and lower teeth $[\theta]$, $[\delta]$
- Alveolars: the front part of the tongue is raised/placed at the alveolar ridge; [t] [d] [n]
 [s] [z] [l] [r]
- Palatals: the front part of the tongue is raised to a point on the hard palate; [∫] [3] [t√]
 [d3] → sometimes also called as the alveopalatals
- Velars: the back of the tongue is raised toward the soft palate; [k] [g] [ŋ]
- Glottals: the glottis is open; air is not obstructed in the mouth; [h]
- Uvulars: the back of the tongue is raised toward the uvula; []
- Pharyngeals: sounds made through the modification of air at the area between the uvula and the larynx (pharynx) [q] [G]

Based on the manner of articulation:

Stops: the air is blocked completely at the oral cavity [p b t d k g n m ŋ t∫ d3]
Continuants: there is no stoppage in the oral cavity; all sounds which ar not stops
Fricatives: air is not stopped but is obstructed from flowing freely; [s z f v ð θ] 3]
Affricates: a stop closure but followed imediately by a slow release; [t∫ d3]
Laterals: tongue front makes contact with the alveolar ridge, the sides of the tongue
down, permitting air to escape laterally through the sides of the tongue; [1]
Glides:
Liquids:
Nasals:
Orals:

Aspirated:
Unaspirated:
Plosives:
trill/flap/tap:

Phonetic Features

Write the phonetic features of the following speech sounds:

- 1. [p]
- 2. [b]
- 3. [t] [d] [n]
- 4. [∫] [3]
- 5. $[\theta][\delta]$
- 6. [m] [n] [ŋ]
- 7. $[v][\delta][z][3]$
- 8. [t∫] [d3]
- 9. [1] [r]
- 10. [w] [j]
- 11. [a]
- 12. [u]
- 13. [u:] [o:]
- 14. [i:] [i]
- 15. [æ]
- 16. [ə] [Λ]
- 17. [au] [əu] [ou]
- 18. [iə] [uə]
- 19. [oi] [ai]

Note:

- 1. Describing consonants: based on the PLACES OF ARTICULATION, MANNER OF ARTICULATION, VOICING, NASAL/ORAL
- 2. Describing vowels: whether they are CLOSE/HIGH, OPEN/LOW, FRONT, CENTER, BACK, ROUNDED, UNROUNDED, TENSE, or LAX
- 3. Describing diphthongs: whether they are CENTRING or CLOSING

Phones, Phonemes, Allophones

- 1. Define the terms phonemes, phones, and allophones!
- 2. What is free variation, how does it different from allophones?
- 3. Aspiration may contribute to the formation of allophones. Why?
- 4. What other phonological process contribute to the formation of allophones?
- 5. What is minimal pair? What contribution does it give to you as an English learner?
- 6. What is complementary distribution? What are the examples?
- 7. Do [t] and [?] in the word button complement each other? Why/why not?
- 8. What about the voiced and voiceless [I] (O'Grady p. 72)? Do they complement each other? Are they allophones of the same phoneme /l/?
- 9. What is distinctive feature? Illustrate your argument with examples!