LIGN110 Section

Wednesday, 28 October 2020

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Section time: W. 3-3:50pm PST

OH time: F. 9-10am PST

Zoom: ucsd.zoom.us/my/acmai

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Review: Place of Articulation

	LABIAL			CORONAL						DORSAL									
CONSONANT											© 2018 INA								
	Bilabial	Labioder	tal	Dental	Alveolar	Postalveolar	Retr	oflex		Palatal	V	elar	Uv	ular	Phary	mgeal	Glo	ottal	
Plosive	рb				t d		t	d		с ј	k	g	q	G			3	(C)	
Nasal	m	n	J		n			η		ŋ		ŋ		N					
Trill	В				\mathbf{r}									\mathbf{R}					
Tap or Flap		7	c		ſ			r											
Fricative	φβ	f v	-	θð	S Z	\int 3	ş	Z,		çj	X	γ	χ	\mathbf{R}	ħ	?	h	ĥ	
Lateral fricative					łţ														
Approximant		ι	,		J			J		j		щ							
Lateral approximant					1			l		Л		L							
Sı	mhole to t	the right in		cell are vo	iced to the	e left are voi	reless	Sl 20	lec	areas (lenote	articu	lation	s ind	ged im	nossih	le.		

Review: Place of Articulation

LABIAL: bilabial, labiodental, (lingual-labials)

involve one or both lips

CORONAL: dental, alveolar, postalveolar, retroflex

- Alveolar sounds can become dental by adding dental diacritics, e.g. t
- Apical sounds are produced with the tongue tip, e.g. t
- Laminal sounds are produced with the tongue blade, e.g. t
- There can be apical vs. laminar distinctions in both dental and alveolar positions

DORSAL: palatal, velar, uvular, pharyngeal, glottal

Review: Manner of Articulation

Manner of articulation refers to the degree and manner of constriction in the oral and nasal cavity

complete constriction

minimal constriction

stop >> fricative >> approximant >> vowel

Practicing non-English consonants

Please make use of the official IPA chart on canvas or found at https://www.internationalphoneticassociation.org/IPAcharts/inter_chart_2018/IPA_2018.html

Make sure you can produce and perceive:

- Bilabial fricatives
- Labiodental nasal, flap, approximant
- Alveolar labial fricative
- Retroflex sounds
- Palatal stops, nasal, fricatives, lateral approximant
- Velar fricatives, approximant, lateral approximant
- Uvular nasal, trill, fricatives
- Pharyngeal fricatives
- Glottal fricatives

Sounds with double articulation

- w : labial-velar approximant
- M: voiceless labial-velar fricative
- kp: voiceless labial-velar stop
- gb : voiced labial-velar stop
- ηm : labial-velar nasal

Note 1: Double articulation consists of two sounds that are of the same voicing, manner of articulation, and nasality, but *differ in place* of articulation

Note 2: For affricates, the two sounds connected by the tie bar are **not** produced simultaneously. The two sounds should be of the same voicing, place of articulation, and nasality but *differ in manner* of articulation.

Exercise: Naming consonants

Template:

(phonation type) voiced/voiceless (aspiration) place (ejective/implosive) manner (click)

Example:

?: (modal) voiceless (unaspirated) pharyngeal (pulmonic egressive) fricative

Assumptions:

- modal phonation is assumed for voiced sounds
- unaspirated is assumed
- pulmonic egressive is assumed
- stops, fricatives, affricates, and clicks need to specify voicing; nasals, trills, approximants, taps/flaps are assumed to be voiced.

Exercise: Naming consonants

Template:

(phonation type) voiced/voiceless (aspiration) place (ejective/implosive) manner (click)

Practice:

- KX
- f
- ŋ0
- 6
- b^f
- k
- <u>ü</u>

Exercise: Naming consonants

Template:

(phonation type) voiced/voiceless (aspiration) place (ejective/implosive) manner (click)

Practice:

- kx : voiceless velar affricate
- h : voiced glottal fricative
- ŋ0 : nasal bilabial click
- g: voiceless alveolo-palatal fricative
- bⁿ: voiced aspirated bilabial stop
- k : voiceless fronted velar stop
- n : dental nasal

Exercise: Transcription

Sound 1

Sound 2

Sound 3

Sound 4

Sound 5

Exercise: Transcription

Sound 1: xu3

Sound 2: 'a\pa

Sound 3: 'nina

Sound 4: 't)pto

Sound 5: 'caje

Exercise: Production

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[εβε] "the Ewe language" (Ewe)
[ce'mi] "chemistry" (German)
[atha] "glue" (Bengali)
[bawx] "bell" (German)
[dye] "day" (Georgian)
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[ha] "song" (Ewe)

Exercise

Which of the following sounds are possible?

- A. Voiced glottalic stop
- B. Voiced glottalic fricative
- C. Voiceless pharyngeal
- D. Voiced pharyngeal nasal

Exercise

Which of the following sounds are possible?

- A. Voiced glottalic stop

 Impossible because it is impossible to close and vibrate vocal folds at the same time.
- B. Voiced glottalic fricative [h]
- C. Voiceless pharyngeal nasal Impossible because there is an approximation between the root of the tongue and the pharynx wall, which blocks the air from flowing through the nose.
- D. Voiced pharyngeal nasal Same as C.