SPAU 133

Lecture 6

The Description of Vowels

CONSONANTS (PULMONIC)

	Bila	bial	Labio	dental	Den	ital	Alve	olar	Postal	veolur	Retr	oflex	Pal	atal	Ve	lar	Uvi	olair	Phar	yngeal	Glo	date
Plosive	p	b					t	d			t	đ	c	J	k	g	q	G			3	
Nasal		m		ŋ				n				η		ŋ		ŋ		N				
Trill		В						r								雕		R				
Tap or Flap								ſ				τ										
Fricative	ф	β	f	v	θ	ð	S	z	ı	3	ş	Z,	ç	j	x	Y	χ	R	ħ	٢	h	ĥ
Lateral fricative							1	ß												34		
Approximant				υ				1				Ł		j		щ						12 020
Lateral approximant								1				l		λ		L						

Where symbols appear in pairs, the one to the right represents a voiced consonant. Shaded areas denote articulations judged impossible.

							PLACE			
	M	//ANNER	VOICING	Bilabial	Labiodental	Interdental	Alveolar	Palatal	Velar	Glottal
		Stop	Voiceless	р			t		k	?
l l		310p	Voiced	Ь			d		g	
Obstruent	F	Fricative	ative		f	θ	S	J		h
SqC			Voiced		V	ð	Z	3		
		Affricate	Voiceless					tſ		
		Annoalo	Voiced					ф		
Ħ		Nasal	Voiced	m			n		ŋ	
ora	Liquid	Lateral	Voiced				1			
Sonorant	Lig	Rhotic	Voiced					L (1)		
		Glide	Voiced	W				j	(w)	

THE INTERNATIONAL PHONETIC ALPHABET (2005)

CONSONANTS (PULMONIC)

	Bilabial	Labio- dental	Dental	I A IWAAI'ar	Post- alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngea	Epi- glottal	Glottal
Nasal	m	m		n		η	n	ŋ	N			
Plosive	рb	q d		t d		t d	c j	k g	q G		2	7
Fricative	φβ	f v	θð	s z	∫ 3	ફ ટ્	çj	ху	χ ,,	ħ c	НС	h h
Approximant		υ		J		ા	j	щ	R R	1	t	11 11
Trill	В			r					R		Я	
Tap, Flap		V		ſ		r						
Lateral fricative				łВ		t	K	Ł				
Lateral approximant				1		l	λ	L				
Lateral flap				J		1						

Where symbols appear in pairs, the one to the right represents a modally voiced consonant, except for murmured \hbar . Shaded areas denote articulations judged to be impossible. Light grey letters are unofficial extensions of the IPA.

CONSONANTS (NON-PULMONIC)

Anterior click releases (require posterior stops)	Voiced implosives	Ejectives			
Bilabial fricated	6 Bilabial	' Examples:			
	d Dental or alveolar	p' Bilabial			
Apical (post)alveolar abrupt ("retroflex")	∫ Palatal	t' Dental or alveolar			
Laminal postalveolar abrupt ("palatal")	g Velar	k' Velar			
Lateral alveolar fricated ("lateral")	d Uvular	s' Alveolar fricative			

CONSONANTS (CO-ARTICULATED)

- M Voiceless labialized velar approximant
- W Voiced labialized velar approximant
- U Voiced labialized palatal approximant
- 6 Voiceless palatalized postalveolar (alveolo-palatal) fricative
- Voiced palatalized postalveolar (alveolo-palatal) fricative
- \mathfrak{h} Simultaneous x and \mathfrak{f} (disputed)
- \widehat{kp} \widehat{ts} Affricates and double articulations may be joined by a tie bar

- Vowels are the most sonorant (intense) and the most audible sounds in speech.
- They often function as the syllable nuclei.
- The consonants surrounding them often depend on them for their audibility.
- Vowels do NOT have a place or manner of articulation.
- They are almost always voiced.

There are four main ways in which speakers can change the shape of the vocal tract and thus change vowel quality:

- raising or lowering the body of the tongue
- advancing or retracting the body of the tongue
- rounding or not rounding the lips
- making these movements with tense or lax gestures

Types of Vowels

- Monophthongs
- Diphthongs

We describe vowels in terms of

- Tongue Height
- Tongue Advancement
- Lip Rounding
- Tenseness



