SPAU 133

Lecture 6

The Description of Vowels

CONSONANTS (PULMONIC)

	Bila	bial	Labio	dental	Den	tal	Alveol	lar .	Postalv	eolar	Retr	oflex	Pal	atai	Ve	lar	Uw	olair	Phar	yngeal	Gk	latto
Plosive	p	b					t	d			t	đ	c	J	k	g	q	G			3	
Nasal		m		ŋ			â	n				η		ŋ		ŋ		N				
Trill		В					- 3	Г								塵		R			THE STATE OF THE PARTY OF THE P	
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														
Approximant				υ				I				1		j		щ					S.	
Lateral approximant								1				l		λ		L			1000		I Se	

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

							PLACE			
	M	IANNER	VOICING	Bilabial	Labiodental	Interdental	Alveolar	Palatal	Velar	Glottal
	Stop		Voiceless	р			t		k	?
اع		Stop	Voiced	b			Р		g	
Obstruent	F	ricative	Voiceless		f	θ	S	ſ		h
sqC			Voiced		٧	ð	Z	3		
	Affricate		Voiceless					tſ		
	Amioate		Voiced					ф		
H		Nasal	Voiced	m			n		Ŋ	
ora	Liquid	Lateral	Voiced				1			
Sonorant	Liq	Rhotic	Voiced					r (1)		
		Glide	Voiced	W				j	(w)	

THE INTERNATIONAL PHONETIC ALPHABET (2005)

CONSONANTS (PULMONIC)

	Bilabial	Labio- dental	Dental	Alveolar	Post- alveolar	Retroflex	Palatal	Velar	Uvular	Pharynge	eal Epi- glottal	Glottal
Nasal	m	m		n		η	n	ŋ	N			
Plosive	рb	q d		t d		t d	СĴ	k g	q G		2	?
Fricative	φβ	f v	θð	s z	∫ 3	ફ ટ્	çj	ху	χR	ħ,	, н с	h h
Approximant		υ		J		ા	j	щ	Б	1	1	11 11
Trill	В			r					R		R	
Tap, Flap		V		ſ		r						
Lateral fricative				4 В		t	K	Ł				_
Lateral approximant				1		l	λ	L				
Lateral flap				J		Į						

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:
Laminal alveolar fricated ("dental")	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 aı	proximant

$$\mathfrak{h}$$
 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:

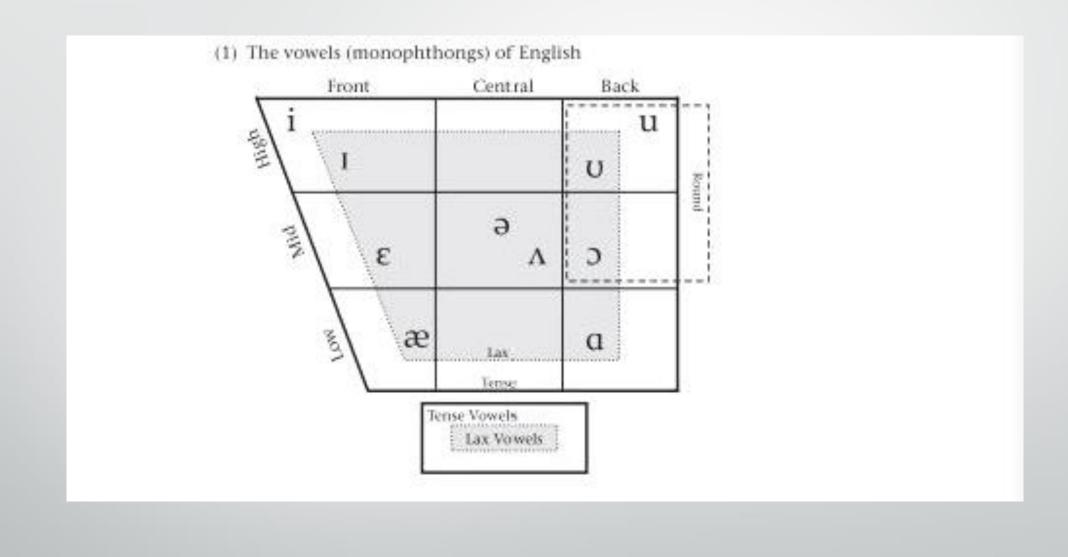
- raising or lowering the body of the tongue
- advancing or retracting the body of the tongue
- rounding or not rounding the lips
- making these movements with tense or lax gestures

Types of Vowels

- Monophthongs
- Diphthongs

We describe vowels in terms of

- Tongue Height
- Tongue Advancement
- Lip Rounding
- Tenseness





(2) The vowel chart in a sagittal section of the vocal tract, for the articulation of [i], [u], and [a].

