

- ... the physiology of speech, so one could explain sound production to more technically-minded pupils
- ... the disciplines of Phonetics and Phonology, the concepts of the *sound* and the *phoneme*, *allophonic* (*narrow*, *phonetic*) and *phonemic* (*broad*) transcriptions;
- ... the main concepts in *articulatory, acoustic* and *auditory phonetics;*
- ... the fact that everything is intertwined in speech, namely *segmental* and *suprasegmental* pronunciations;
- ... the vowels and diphthongs, being the most sonorous sounds and carriers of voice, being particularly impacted by *suprasegmental* (*prosodic*) behaviour both within a short unit such as the word and in connected speech.









# Adrian Underhill's Sound Foundations



pronunciation charts for GB and GenAm



1:	I	U	U١	Ia	e	I;	X
е	Э	3:	<b>ာ</b> း	Ué	9 3	I	<b>⋽</b> び
æ	٨	a:	D	66	a	I	JU
P	Ь	t	d	ts	dz	K	9
f	٧	θ	ð	S	Z	ſ	3
m	n	ŋ	h	1	٢	W	j

ĺ	1	[	U	u	le	I	ou au
е	ć	9	3۲	Э	3	I	OÜ
$\alpha$	1	\	a		a	Ι	au
P	Ь	t	d	tſ	dz	K	9
							3
m	n	ŋ	h	L	٢	W	j











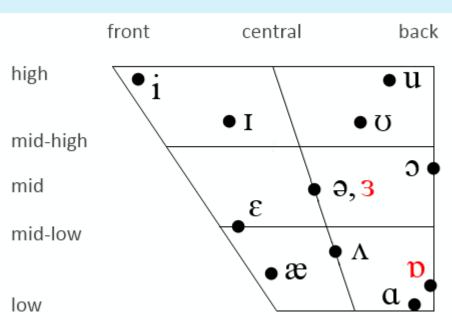


#### English vowels

High and low can also be referred to as close and open. The sounds in red plus [5] are exclusive to GB (General British, a replacement term for RP, in the U.S. also referred to as SSBE=Standard Southern British English). Notice that length (duration) is no longer marked in modern transcriptions and charts as duration depends largely on what follows.

Source - https://www.sltinfo.com/ess101-simple-vowels-summary/

In GenAm, vowels are generally more open and nasal, which makes AmE more suitable for singing. The British [p] and [ɔ] have merged with [a], the long [a:] is raised to [æ], both mixed vowels [ə] and [3] are rhoticised to [&] and [&].









#### Cz/Sl problems with E vowels

- Not disposing of such phonological distinction in their own language, the Czechs and Slovaks replace [æ] with [e]: *my pet ret*
- ... [ɪ] with [i]: *just a leetle beet*
- ... [v] with [u]: *book, foot, hood*
- We can say they don't build and maintain the desired degree of openness on certain vowels. This, combined with final-consonant devoicing, can render some word chains virtually indistinguishable, e.g. *med-met-mad-mat*.
- The long mixed vowel /3:/ is often replaced by /5:/, saying warm meaning worm and ward meaning word.
- Remedial training: check any authentic English/American audio materials and Trim's English pronunciation illustrated in Study Materials.





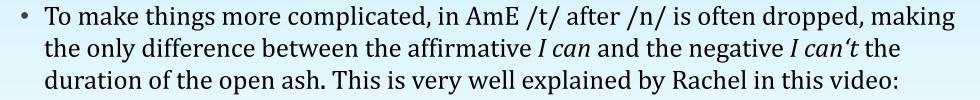






#### Pre-fortis shortening

• All vowels, diphthongs and even voiced consonants become much shorter if they are followed by voiceless (=fortis) consonants /p/, /f/, /k/, /t/, /s/, /tf/, e.g. making the /p/ in dock a millisecond shorter than in dog.





https://www.youtube.com/watch?v=Vp7xmbtylqI







1) gliding to  $/\tau$ , 2) centring (lowering to  $/\vartheta$ , non-existent in AmE), 3) gliding to  $/\upsilon$ .

/və/ has disappeared in modern GB, merges with long /ɔː/. /əv/ has a less central start in GenAm than in GB and sounds like /ov/.

		DI	PHTHONGS		
aı	(try, my, l, high)	еә	(where, there, stair)	aυ	(how, now, cow)
еі	(may, day, they)	19	(here/hear, beer)	əυ	(no/know, load)
IC	(boy, toy, Troy)	υə	(poor, tour, moor)		











# The pronunciation of English vowel letters in open and closed syllables (consonants are the closing elements; the "magic E opens syllables). Hence, reduplication is necessary to keep the short pronunciation (lad-laddie).



	In open syllables: "long pronunciation"	In closed syllables "short pronunciation"
A	mate	mat
Е	Pete	pet
I, Y	I, my	it, myth
0	poke	Spock

put, putt

dispute







## Problem of Czech/Slovak speakers with /ei/:

• In words such as *ancient*, *angel*, *arrange*, *change*, *manger*, *range*, *strange*, Cz/Sl students often erroneously replace the diphthong /e<sub>1</sub>/ with the monophthong /e/.



• There is a lot of monophthongisation in various regional and social dialects of English but never of this kind.



Remedial training: check any authentic English/American audio materials.





# Comprehending British English: smoothing of triphthongs



• For some time now in GB, particularly in its posher forms, the sequence

/aiə/, /eiə/ or /auə/

is smoothed. The diphthong's central element is weakened or totally eliminated, changing pronunciation of *fire, layer* and *tower* to ['faːə], ['leə] and ['tɑːə].



Well documented in this video grom the Guardian:

https://www.theguardian.com/lifeandstyle/video/2014/sep/22/secrets-posh-accent-video-riot-club-vowels







# Comprehending British English: the disappearance of /uə/



• Words containing the /υə/ diphthong such as *sure*, *pure*, *cure* and *endure* now realise the phoneme /υə/ as long /ɔː/.



Discussion point: Should a learner try to imitate this?













	MANNER				PLACE						
			VOICING	Bilabial	Labiodental	Interdental	Alveolar	Palatal	Velar	Glottal	
	Stop		Voiceless	р			t		k	3	
뒫			Voiced	b			d		g		
true	Fricative		Voiceless		f	θ	s	ſ		h	
SqC			Voiced		٧	ð	Z	3			
$\ $	Affricate		Voiceless					ť			
			Voiced					ф			
Ħ		Nasal	Voiced	m			n		ŋ		
ora	Liquid	Lateral	Voiced				1				
Sonorant	Li	Rhotic	Voiced					L (1)			
Ľ		Glide	Voiced	W				j	(w)		











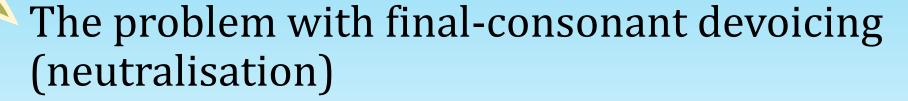
#### Sonority and articulatory energy

- Sonority (voicing; categories voiced vs. voiceless) and articulatory energy (tension; categories lenis vs. fortis) are two counteracting qualities of consonants. Most English consonants come in pairs and are either voiced lenis or voiceless fortis.
- Voiced lenis are consonants where vocal energy is required on the vocal tract but lips and tongue are rather idle. One cannot whisper voiced lenis consonants: /b/, /v/, /g/, /d/, /z/, /dz/.
- Voiceless fortis are consonants where no energy is invested on the vocal folds but lips and tongue work harder. One can whisper voiceless fortis consonants: /p/, /f/, /k/, /t/, /s/, /f/, /t/.
- The only exception in English is /h/ which is voiceless lenis (just a breath, no energy involved anywhere).











- In Czech and Slovak, voiced consonant phonemes in final positions, /b/, /v/, /g/, /d/, /z/, /z/, /dz/, are devoiced (neutralised) into their voiceless counterparts /p/, /f/, /k/, /t/, /s/, /f/.
- Examples: slib [-p], lev [-f], blog [-k], pád [-t], bez [-s], masáž [-ʃ], bridž [-tʃ].
- The neutralisation even occurs before a vowel in speech. Then the subsequent vowel begins with a glottal stop: slib a přísaha [ˈslipʔʌˈpriːsʌhʌ], lev a tygr, blog i článek, pád i vzestup, bez agendy, masáž aorty, bridž i kanasta.



 Certain non-native speakers acquire voicing and linking (liaison) habits naturally through observation, others must train hard to eliminate the "harsh Czech accent".









### Voicing and linking (liaison)

- These terms reflect the speech habit of making one word blend with another without a glottal stop
- Linking /w/: go on [ˌgəυ'<sup>w</sup>ɒn]
- Linking /j/: carry on [,khæri'jɒn]
- Linking /r/: car and house [,kha:rən'haus]
- Intrusive /r/: Buddha images ['budə<sup>r</sup>ımədʒəz]











### Aspirations of voiceless plosives under stress

- Voiceless plosives /p/, /t/ and /k/ are aspirated if they occur in the beginning of a stressed syllable.
- Aspiration does not occur if the voiceless stop is preceded by a /s/. Sometimes the /s/ is disguised in spelling as x = /ks/.
- Compare *pool* ['p<sup>h</sup>uːł], *tool* ['t<sup>h</sup>uːł], *cool* ['k<sup>h</sup>uːł] with *spool* ['spuːł], *stool* ['stuːł], *school* ['skuːł].
- Compare tend ['thend] and extend [ək'stend].
- Lack of aspiration can result in /p/,/t/,/k/ being perceived as their voiced counterparts /b/, /d/ /g/, e.g. *Pompei* as *Bombay, tick* as *dick, cool* as *ghoul.*











#### Other problems pronouncing consonants

- Voiceless plosive/t/, instead of being alveolar and aspirated, is often dental, causing *Tom* being perceived as *Dom*.
- Both the dental fricatives, voiceless  $/\theta/$  and voiced  $/\delta/$ , are replaced by their alveolar counterparts /s/ and /d/. As a consequence, the expressions I think it's a good thing and the other may be perceived as I sink it's a good sing and dee udder.
- -ING endings often do not finish with a velar /ŋ/ but with a /ŋk/ or alveolar /n/, erasing the phonological difference between e.g. *sing*, *sin* and *sink*.
- Another frequent mistake is the fluctuation between /v/ and /w/.
- Remedial training: see Trim's English pronunciation illustrated in Study Materials.











#### Tomková's Pronunciation assessment form

NAME, PTS	40
Stress & rhythm	-15
Voicing & liaison	-7
Vowels /æ/, /1/	-2, -2
Dental fricatives $/\delta/$ and $/\theta/$	-2, -2
Voiceless alveolar plosive /t/	-2
-ing endings	-2
Long mixed vowel /3ː/	-2
/v/ and /w/	-2
Words mispronounced	-2









#### Articulatory settings in Cz/Sl and English

- The term was coined by the South-African linguist Barbara Honickman and is understood as a set of prevailing tongue movements and positions for each language. It is investigated in Russia as *articulatory basis*.
- When speaking English, the tongue tip (apex) operates around the upper teeth, the blade being relatively idle and resting. Its position is *concave*.
- When speaking Czech or Slovak, the apex is relatively idle and the blade approximates the hard palate rather often to produce palatal sounds, d'[f], t'[c], n[f] and l'[K]. Its position is *convex*.









# Articulatory settings in Cz/Sl and English



documented on a beef tongue, P&P March 2020









# Sources

- Gimson
- Roach
- Collins and Mees
- Life
- Teaching practice









