



Practical Ph&Ph:

Segmental pronunciation of English



Before starting about vowels, diphthongs and consonants, a brief revision of...

- ... 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.



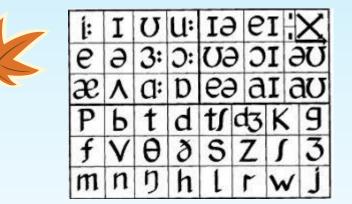


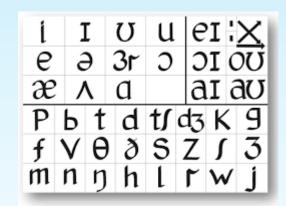


Adrian Underhill's Sound Foundations

pronunciation charts for GB and GenAm













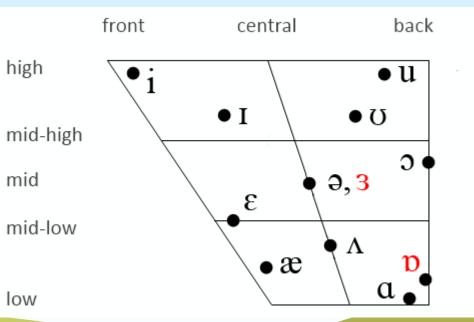


English vowels

High and low can also be referred to as close and open. The sounds in red plus [ɔ] 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 [b] and [ɔ] have merged with [a], the long [a:] is raised to [æ], both mixed vowels [ə] and [3] are rhoticised to [ə] and [3-].











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*
- ... [I] with [i]: *just a leetle beet*
- ... [ʊ] 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 /ɔː/, 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/, /ʃ/, /s/, /tʃ/, e.g. making the /p/ in *dock* a millisecond shorter than in *dog*.

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 To make things more complicated, in AmE /t/ after /n/ is often dropped, making the only difference between the affirmative *I can* and the negative *I can't* the duration of the open ash. This is very well explained by Rachel in this video:

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







gliding to /1/, 2) centring (lowering to /ə/, non-existent in AmE), 3) gliding to /u/.
/uə/ has disappeared in modern GB, merges with long /ɔː/.
/əu/ has a less central start in GenAm than in GB and sounds like /ou/.





		DI	DIPHTHONGS				
aı	(try, my, l, high)	eə	(where, there, stair)	aʊ	(how, now, cow)		
eı	(may, day, they)	IЭ	(here/hear, beer)	១ប	(no/know, load)		
DI	(boy, toy, Troy)	ευ	(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).

There are many exceptions, e.g. *have, love* and examples on the following slide, still reduplications and the *magic E* work most of the time.

	In open syllables: "long pronunciation"	In closed syllables "short pronunciation"	
А	mate	mat	
Е	Pete	pet	E
I, Y	I, my	it, myth	
0	poke	Spock	
U	dispute	put, putt	

Problem of Czech/Slovak speakers with

/eI/(understandable as they follow the rule on slide 8):

• In words such as *ancient, angel, arrange, Cambridge, change, manger, range, strange,* Cz/Sl students often erroneously replace the diphthong /ei/ 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

/aıə/, /eıə/ 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 /ʊə/

 Words containing the /uə/ diphthong such as sure, pure, cure and endure now realise the phoneme /uə/ as long /u.

• Discussion point: Should a learner try to imitate this?







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English consonants

				PLACE						
	N	IANNER	VOICING	Bilabial	Labiodental	Interdental	Alveolar	Palatal	Velar	Glottal
Obstruent	Stop	Voiceless	р			t		k	?	
		Voiced	b			d		g		
	F	ricative	Voiceless		f	θ	S	ſ		h
			Voiced		v	ð	z	3		
		Affricate	Voiceless					t∫		
	Annoale		Voiced					ф		
Sonorant		Nasal	Voiced	m			n		ŋ	
	Liquid	Lateral	Voiced				1			
	Liq	Rhotic	Voiced					(L) I		
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/, / 3 /, /d3/.
- 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/, / \int /, /t \int /.
- The only exception in English is /h/ which is voiceless lenis (just a breath, no energy involved anywhere).





The problem with final-consonant devoicing (neutralisation)

- In Czech and Slovak, voiced consonant phonemes in final positions, /b/, /v/, /g/, /d/, / z/, / ʒ /, /dʒ/, are devoiced (neutralised) into their voiceless counterparts /p/, /f/, /k/, /t/, /s/, / ʃ/, /t ʃ/.
- Examples: *slib* [*-p*], *lev* [*-f*], *blog* [*-k*], *pád* [*-t*], *bez* [*-s*], *masáž* [*-*ʃ], *bridž* [*-t*ʃ].
- The neutralisation even occurs before a vowel in speech. Then the subsequent vowel begins with a glottal stop: *slib a přísaha ['slip?ʌ'priːsʌhʌ], 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 [gəυ^wbn]
- Linking /j/: *carry on* [,k^hæri'^jbn]
- Linking /r/: *car and house* [,k^haːrən'haʊs]
- Intrusive /r/: Buddha images ['budə^rımədʒəz]



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





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^huːł], tool ['t^huːł], cool ['k^huːł] with spool ['spuːł], stool ['stuːł], school ['skuːł].
- Compare *tend* ['t^hend] 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 /θ/ and voiced /ð/, 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/, /ɪ/	-2, -2
Dental fricatives /ð/ and /θ/	-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' [₁], t' [c], ň[ŋ] and l' [ʎ]. Its position is *convex*.







documented on a beef tongue, P&P March 2020











Sources

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









Thank you for your attention!

