Consonants

Airflow through oral cavity is obstructed

Voicing: Voiced v/s Voiceless, Voiceless are on the left

Place of Articulation: Bilabial is furthest out, glottal is deepest

Manner of Articulation: Stops are Plosive / Nasal, Apporximants are Liquids / Glides

	BILA	BIAL	LAB NTA	IODE L	INTE DEN		ALV LAR		POS	T-ALV.	PALATAL	VELAR	GLOTTAL
PLOSIVE	р	b					t	d				k g	7
NASAL		m						n				ŋ	
FRICATIVE			f	٧	θ	ð	s	Z	ſ	3			h
AFFRICATE									tſ	dз			
LIQUID (CENTRAL)								r					
(LATERAL)								I					
GLIDE		W									j		

bilabial	[p], [b], [w], [m]	pet, bet, wet, met
labiodental	[f], [v]	fine, vine
interdental	[θ], [ð]	thin, this
alveolar	[t], [d], [s], [z], [l], [r], [n]	tune, dune, soon, zoo, loon, rune, noon
post-alveolar	[ʃ], [ʒ], [tʃ], [dʒ]	<u>sh</u> ip, genre / mea <u>s</u> ure, <u>ch</u> ip, gym
palatal	Ü	у́еѕ
velar	[k], [g], [ŋ]	kit, gift, king / think
glottal	[h], [ʔ]	<u>h</u> at, uh <u>-</u> oh

adapted by EnglishClub.com

	monophthongs					nongs	Phonemic	
	i:	I	ឋ	u:	ΙƏ	еі		Chart voiced
ဟု	sh <u>ee</u> p	sh <u>i</u> p	<u>goo</u> d	sh <u>oo</u> t	h <u>ere</u>	w <u>ai</u> t		unvoiced
VOWELS	е	Э	3:	၁:	υə	OI	อช	
>	b <u>e</u> d	teach <u>er</u>	b <u>ir</u> d	d <u>oor</u>	t <u>ou</u> rist	b <u>oy</u>	sh <u>ow</u>	
	æ	Λ	a:	a	еә	aı	aʊ	
	c <u>a</u> t	<u>u</u> p	f <u>ar</u>	<u>o</u> n	h <u>air</u>	my	c <u>ow</u>	
	р	b	t	d	ţſ	dЗ	k	g
E	реа	<u>b</u> oat	<u>t</u> ea	<u>d</u> og	<u>ch</u> eese	<u>J</u> une	<u>c</u> ar	go
CONSONANTS	f	V	θ	ð	S	Z	ſ	3
N N	fly	<u>v</u> ideo	<u>th</u> ink	<u>th</u> is	<u>s</u> ee	<u>z</u> 00	<u>sh</u> all	television
8	m	n	ŋ	h	1	r	W	j
	<u>m</u> an	<u>n</u> ow	si <u>ng</u>	<u>h</u> at	love	red	<u>w</u> et	уes

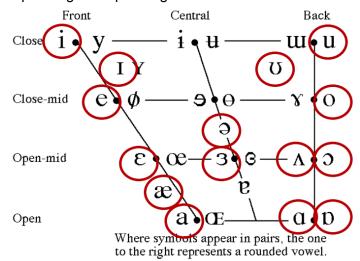
Vowels

Airflow through oral cavity is not obstructed Lip Rounding: Rounded v/s Unrounded

Height: Low / Mid / High

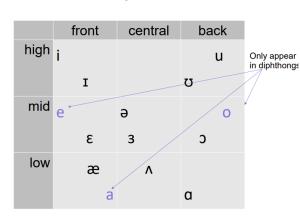
Frontness: Front / Central / Back

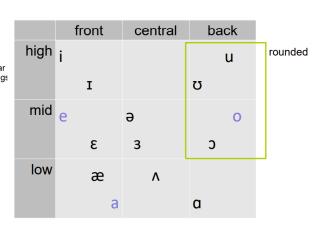
Tenseness: Tense v/s Lax Mophthong v/s Diphthong

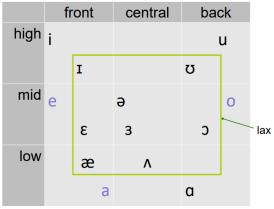


AmE

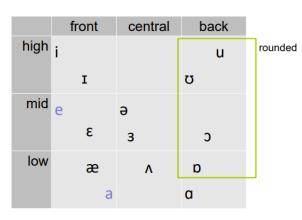
Rhotic: [r] following a vowel is retained

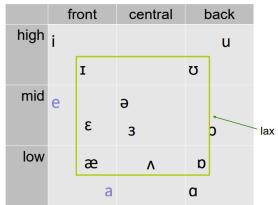






Postvocalic r: When [r] comes after a vowel and before a pause or consonant, it is deleted and realized as a schwa [ə] or replaced with a long vowel [:]





SgENo tense-lax distinction
Most Singaporeans delete postvocalic [r]

	front	central	back
high	i		u
mid	e ε	ə	o o
low		а	

Summary

Example	US - GA	UK - RP	SingE
SHEEP	i	i	i
SHIP	I	I	i
SET	3	3	3
TRAP	æ	æ	3
CLASS	æ	а	а
GOOSE	u	u	u
FOOT	ប	υ	u
STRUT	٨	٨	а
THOUGHT	o	o:	0
LOT	a	a	Э
COMM <u>A</u>	ə	Э	Э

Example	US (GA)	UK (RP)	SingE
MAY	еі	еі	е
MY	аі	aı	ai
BOY	oi	oi	oi
MOW	ου	อช	0
NOW	аʊ	аʊ	au
NEAR	ir	IÐ	iə
SQUARE	εr	63	ε(r)
TOUR	υr	ບອ	uə(r)
PURE	jзr	jʊə	jo(r)
NORTH	or	ɔ :	၁(r)
START	ar	a:	a(r)
NERD	зr	3:	ə(r)
WRIT <u>ER</u>	ər	ə	ə(r)

<u>Stress</u>

All words have one syllable that receives primary stressed which is marked with ['] before the syllable

Secondary stress is marked with a low apostrophe [,]

Phonology

Phonemes

Minimal Pair: Changing one phone results in a different word

Contrastive Distribution: Can occur in the same phonological environment forming minimal pairs

Complementary Distribution: Can never occur in the same phonological environment

Free Variation: Can occur in same environment as different pronunciations but do NOT result in different words

Phoneme: /t/
Allophones: [t] [r]

Not in contrastive distribution, and are phonetically similar

Phonological Rules

Underline represents current phoneme

Use + and - to represent properties e.g. [+ high] [- voice]

Example: $/t/\rightarrow$ [?] / [ən]

Symbols: V (Vowel), C (Consonant), Ø (Nothing), \$ (Syllable Boundary), # (Word Boundary)

 $A \rightarrow B / [env. 1] _ [env. 2]$

Phonological Processes

Assimilation: Two nearby sounds become more similar Dissimilation: Two nearby sounds become more different

Epenthesis: A phone is added

Deletion: Underlying phoneme is not realised on surface phonetic level

Metathesis: Two sounds are switched

Synchronic: Phoneme deleted in certain phonological environments

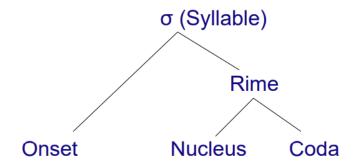
Diachronic: Phoneme deleted in modern language

Syllables

Sonority Hierarchy: How "loud" phones are

More sonorous phones tend to be closer to nucleus

i.e. Nucleus is usually vowels
All syllables must have a nucleus



Morphology

Morpheme: Smallest meaningful unit in a language

Bound: Cannot exist on its own Free: Stands on its own as a word

Affixes

Most bound morphemes are affixes

Affixes must occur more than one in vocabulary, have an identifiable grammatical function or meaning, and be added to a word to modify its core meaning

Prefix: Before word

Suffix / postfix: After a word Infix: Middle of a word Circumfix: Surrounding

Productive: New words are commonly / easily made out of the affix

Inflectional: Used to express certain grammatical information, word stays at the same part of

speech

Derivational: Creates new word with different meaning, often a different part of speech

Can be Class-Changing or Class-Maintaining

Word Classes

Nouns: Person / animal / thing Verbs: Action / event / state

Adjectives: Give more information and modify or describe features and qualities of things

Adverbs: Add more information about verb or adjective

Preposition: Describe relationship between words from major word classes

Pronouns: Words which substitute for noun phrases

Determiners: Come before nouns, show what type of reference the noun is making

Conjunctions: Show link between two words or phrases

Interjections: Exclamation words

Allomorphs: Irregular forms of inflectional affixes (e.g. plural that is not -s), different

realisations of underlying morphemes

Roots: Morphemes that form the core meaning of the word

Bound roots: Bound morphemes that are roots

Cranberry Morphemes: Bound morphemes with no clear meaning

Compound Words: Contain more than one root

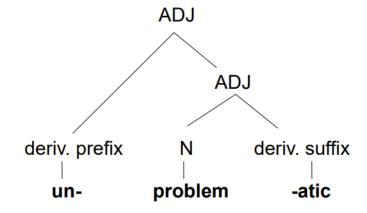
Open Compound Words: Single words conventionally written as two orthographic words

Closed: Written without space

Hyphenated: Written with hyphen between them

Hierarchical Word Structure:

Prevent confusion in word formation



Word Boundaries

Orthography: Are there spaces when written out Phonology: Stress patterns or phonological rules

Divisibility: Can sequence be divided Pause: Can speakers put a pause

Parts of Speech

Content Words: Contenful and provide meaning

Function Words: Serve grammatical functions and indicate relationship between content

words

Word Formation

Conversion: Word changes word class with no new morphemes added

Backformation: Word appears to be made up of certain morphemes when it is not, usually

from trimming a word

Clipping: Cutting of parts of a word Blending: Combining Clippings together

Acronym: Initials pronounced as a regular word

Initialism: Words pronounced as letters

Syntax

Syntax: Study of rules underlying sentence structure

Top-Down: How can we parse a sentence

Bottom-Up: What rules determine how words can fit together

Morphological Tests

Nouns: Can we attach -s to it

Adjectives: Can we attach -ly to it Verbs: Can we attached -ed to it Inverse is not necessarily true Words can belong to more than one word class

Constituents

Units that group together in sentence structure Phrase: Between word and sentence level Phrases can be nested in other phrases

Tests:

- Topicalization: Can it be moved to the front of the sentence
- Clef: It is <> that <>
- Psuedocleft: <> is what <>
- Substitution: Can the chunk be replaced by a known constituent
 - Pronouns: that / this
 - Proforms: did so / do so / was so
- Deletion: Can the unit be deleted

Phrases

Phrases have an important word known as the head of the phrase Phrase types are named after word class of head Test for phrase head: A Y is a type of X

Phrase Rules

Noun Phrases may or may not have determiners, and can have as many adjectives as needed

 $NP \rightarrow (Det) (Adj)^* N (PP)$ () = Optional, * = Repeatable