

ARPAbet

Vowels			Consonants		
Phoneme	Example	Transcription	Phoneme	Example	Transcription
AA	bot	B AA1 T	B	be	B IY1
AE	bat	B AE1 T	CH	cheese	CH IY1 Z
AH	but	B AH1 T	D	day	D EY1
AO	bought	B AO1 T	DH	that	TH AE1 T
AW	bout	B AW1 T	F	fee	F IY1
AY	bite	B AY1 T	G	go	G OW1
EH	bet	B EH1 T	HH	he	HH IY1
ER	bird	B ER1 D	JH	just	JH AH1 S T
EY	bait	B EY1 T	K	key	K IY1
IH	bit	B IH1 T	L	late	L EY1 T
IY	beat	B IY1 T	M	me	M IY1
OW	boat	B OW1 T	N	knee	N IY1
OY	boy	B OY1	NG	sing	S IH1 NG
UH	put	P UH1 T	P	pay	P EY1
UW	boot	B UW1 T	R	read	R IY1 D
			S	sea	S IY1
			SH	she	SH IY1
			T	tea	T IY1
			TH	thanks	TH AE1 NG K S
			V	vain	V EY1 N
			W	we	W IY1
			Y	yes	Y EH1 S
			Z	zoo	Z UW1
			ZH	pleasure	P L EH1 ZH ERO

Stress is indicated by digits following the stressed vowels. There are three levels of stress:

- 0 no stress
- 1 primary stress
- 2 secondary stress

Examples

in	AH0 N, IH1 N	by	B AY1
the	DH AH0, DH AH1, DH IY0	digits	D IH1 JH AH0 T S
dictionary	D IH1 K SH AH0 N EH2 R IY0	following	F AA1 L OW0 IH0 NG
stress	S T R EH1 S	stressed	S T R EH1 S T
is	IH1 Z, AH0 Z	vowels	V AW1 AH0 L Z
indicated	IH1 N D AH0 K EY2 T AH0 D		

THE INTERNATIONAL PHONETIC ALPHABET (revised to 2015)

CONSONANTS (PULMONIC)

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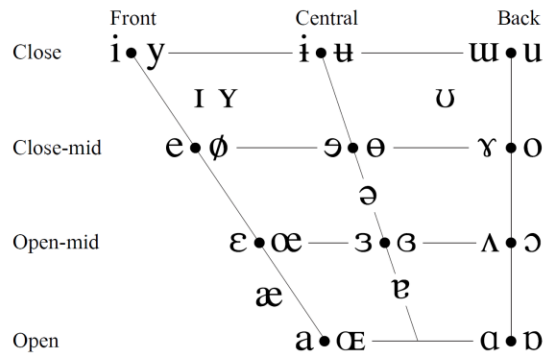
	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b			t d		ʈ ɖ	c ɟ	k ɡ	q ɢ		ʔ
Nasal	m	ɱ		n		ɳ	ɲ	ŋ	ɴ		
Trill	ʙ			r					ʀ		
Tap or Flap		ɸ		ɾ		ɽ					
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	ʂ ʐ	ç ʝ	x ɣ	χ ʁ	ħ ʕ	h ɦ
Lateral fricative				ɬ ɮ							
Approximant		ʋ		ɹ		ɻ	j	ɰ			
Lateral approximant				l		ɭ	ʎ	ʟ			

Symbols to the right in a cell are voiced, to the left are voiceless. Shaded areas denote articulations judged impossible.

CONSONANTS (NON-PULMONIC)

Clicks	Voiced implosives	Ejectives
⊙ Bilabial	ɓ Bilabial	ʼ Examples:
Dental	ɗ Dental/alveolar	pʼ Bilabial
! (Post)alveolar	ɟ Palatal	tʼ Dental/alveolar
≠ Palatoalveolar	ɠ Velar	kʼ Velar
Alveolar lateral	ɣ Uvular	sʼ Alveolar fricative

VOWELS



OTHER SYMBOLS

- ʌ** Voiceless labial-velar fricative
- ʡ** Voiced labial-velar approximant
- ɥ** Voiced labial-palatal approximant
- ħ** Voiceless epiglottal fricative
- ʕ** Voiced epiglottal fricative
- ʔ** Epiglottal plosive
- ɕ ʑ** Alveolo-palatal fricatives
- ɺ** Voiced alveolar lateral flap
- ɮ** Simultaneous **ʃ** and **x**
- Affricates and double articulations can be represented by two symbols joined by a tie bar if necessary.

ts̺ k̟

SUPRASEGMENTALS

- ˈ** Primary stress **ˈfounəˈtʃən**
- ˌ** Secondary stress
- ː** Long **eː**
- ˑ** Half-long **eˑ**
- ◌̥** Extra-short **ɛ̥**
- |** Minor (foot) group
- ||** Major (intonation) group
- Syllable break **.i.ækt**
- ◌̣** Linking (absence of a break)

DIACRITICS Some diacritics may be placed above a symbol with a descender, e.g. **ɲ̥̊**

◌̥ Voiceless	ɲ̥ ɖ̥	◌̤ Breathy voiced	ɓ̤ ɗ̤	◌̦ Dental	ț d̦
◌̣ Voiced	ɲ̣ ɖ̣	◌̨ Creaky voiced	ɓ̨ ɗ̨	◌̩ Apical	t̩ d̩
h Aspirated	tʰ dʰ	◌̟ Linguolabial	t̟ d̟	◌̪ Laminal	t̪ d̪
◌̙ More rounded	ɔ̙	◌̜ Labialized	t̜ d̜	◌̚ Nasalized	ẽ̚
◌̘ Less rounded	ɔ̘	◌̝ Palatalized	t̝ d̝	ⁿ Nasal release	dⁿ
+ Advanced	ɯ̟	◌̞ Velarized	t̞ d̞	ˡ Lateral release	dˡ
- Retracted	ɯ̠	◌̠ Pharyngealized	t̠ d̠	ˠ No audible release	dˠ
◌̠ Centralized	ẽ̠	◌̡ Velarized or pharyngealized	ɬ̡		
x Mid-centralized	ẽ̘	◌̣ Raised	ẹ (ɹ̣ = voiced alveolar fricative)		
 Syllabic	ɲ̩	◌̤ Lowered	e̤ (β̤ = voiced bilabial approximant)		
◌̥ Non-syllabic	e̥	◌̥ Advanced Tongue Root	ɛ̥		
◌̣ Rhoticity	ə̣ ɑ̣	◌̣ Retracted Tongue Root	ɛ̣		

TONES AND WORD ACCENTS

- | LEVEL | CONTOUR |
|----------------------------------|------------------------------|
| ẽ̥ or ˥ Extra high | ẽ̥ or ˥ Rising |
| é̥ High | ẽ̥ Falling |
| ē̥ Mid | ẽ̥ High rising |
| è̥ Low | ẽ̥ Low rising |
| è̥̣ Extra low | ẽ̥̣ Rising-falling |
| ↓ Downstep | ↗ Global rise |
| ↑ Upstep | ↘ Global fall |