

THE INTERNATIONAL PHONETIC ALPHABET (revised to 2015)

voiced : -z

CONSONANTS (PULMONIC)

-1

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	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b			t d		t ^{tr} d ^{dr}	c j ^{cz}	k g	q G ^{gq} _{qz}		p ^{hq} _{h1}
Nasal	m	m ^{nv}		n		n ^{trn}	j ^{cn}	ŋ	ɳ	N	
Trill	B ^{bv}			r						R ^{qr}	
Tap or Flap		v ^{vj}		t ^{rl}		t ^{rr} _{srl}					
Fricative	ɸ ^{fw} β ^{vw} _{bw}	f v	θ ^{td} ð ^{dd}	s z	ʃ ^{sh} ʒ ^{zh}	s ^{sr} z ^{zr}	ç ^{cc} _{cs} j ^{jx} _{jc}	x y ^{xz} _{gx}	χ ^{gx} k ^{gxz} _{rx}	h ^{h_{2p}} _{h₂} ^{h_{2z}}	h f ^{h_{2z}} _{h₁} ^{h_{1z}}
Lateral fricative				ɬ ^{ls} ɬ ^{lz}							
Approximant		v ^{vh}		ɹ ^{rh}		ɻ ^{srh}	j	w ^{wh}			
Lateral approximant				l		ɺ ^l	ɻ ^{jh}	ɿ ^{whl}	L ^{wh}		

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

CONSONANTS (NON-PULMONIC)

$$= M^* \text{soft} + M$$

Clicks -C	Voiced implosives	Ejectives P'
○ Bilabial pC	ɓ Bilabial bM	' Examples: p p'
Dental tdC	ɗ Dental/alveolar dM	پ Bilabial tP'
! (Post)alveolar tC	ڻ Palatal cM czM	ٿ Dental/alveolar tP'
‡ Palatoalveolar cC	ڳ Velar gM	ڱ Velar kP'
Alveolar lateral lC	ڳ Uvular gM gzM	ڱ' Alveolar fricative sP

OTHER SYMBOLS

M *uw* Voiceless labial-velar fricative **ç** *nx* **z** *zx* Alveolo-palatal fricatives

W Voiced labial-velar approximant

Affricates and double articulations can be represented by two symbols joined by a tie bar if necessary.

jh. jy Voiced labial-palatal approximant **ʃ** Simultaneous **f** and **X**

H ^{hr} Voiceless epiglottal fricative

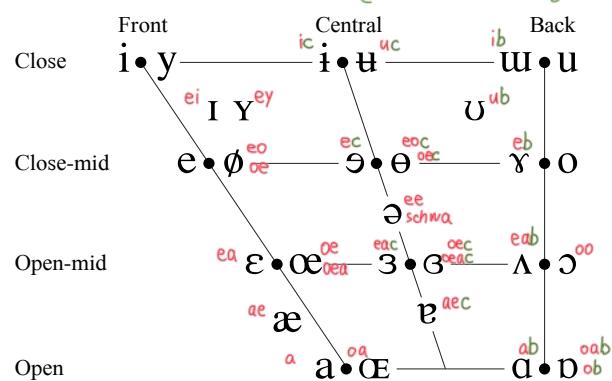
⌚ hrz. h4

1 Voiced epiglottal
2 hk = h3

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

o	Voiceless	ն ճ	..	Breathy voiced	Ծ. բ ա	ն	Dental	Ծն	տ ծ
▽	Voiced	ն դ	~	Creaky voiced	Ծ~ բ ա	ն	Apical	Ծս	տ ծ
h	Aspirated	նh ճh	~	Linguolabial	Ծm տ ծ	ն	Laminal	Ծա	տ ծ
՝	More rounded	զ	W	Labialized	Պw տw ծw	~	Nasalized	Պն	է
՝	Less rounded	զ	j	Palatalized	Պj տj ծj	n	Nasal release	Պn	դn
+	Advanced	ւ	Y	Velarized	Պրx տY ծY	l	Lateral release	Պl	դl
-	Retracted	ե	Ֆ	Pharyngealized	Պհ2 տՖ ծՖ	Ռ	No audible release	Պկk	դՌ
..	Centralized	է	~	Velarized or pharyngealized		Ւ	B~		
×	Mid-centralized	չ	↑	Raised	Ծt ւ (ւ = voiced alveolar fricative)				
՚	Syllabic	ն	↓	Lowered	Ծp ւ (ւ = voiced bilabial approximant)				
՝	Non-syllabic	ե	↓	Advanced Tongue Root	ւ Ծl				
՞	Rhoticity	ժ ա	↑	Retracted Tongue Root	ւ Ծr				

VOWELS



Where symbols appear in pairs, the one to the right represents a rounded vowel.

SUPRASEGMENTALS

- Primary stress *founə'tjuːʃən*
 - Secondary stress
 - L* Long **e'**
 - Half-long **e'**
 - Extra-short **ĕ**
 - Minor (foot) group
 - Major (intonation) group
 - Syllable break *ji.ækt*
 - Linking (absence of a break)

TONES AND WORD ACCENTS

LEVEL

CONTOUR

- | | | | | | | | | | |
|-----|---|----------|-----------|------------|-------------|----------------|------|---------|-----|
| T55 | é | or | ˥ | Extra high | é | or | ˥ | Rising | T15 |
| T44 | é | ˥ | High | ê | ˥ | Falling | T51 | | |
| T33 | ē | ˧ | Mid | ě | ˧ | High rising | T35 | | |
| T22 | è | ˨ | Low | ጀ | ˨ | Low rising | T13 | | |
| T11 | ë | ˩ | Extra low | ë | ˩ | Rising-falling | T343 | *sample | |
| | ↓ | Downstep | | ↗ | Global rise | | | | |
| | ↑ | Upstep | | ↘ | Global fall | | | | |