

# THE INTERNATIONAL PHONETIC ALPHABET (revised to 2020)

## CONSONANTS (PULMONIC)

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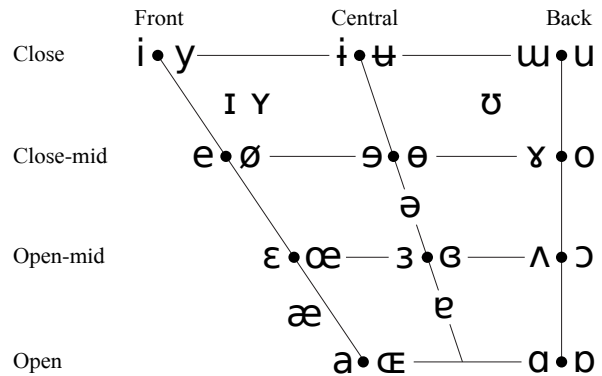
	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b			t d		ʈ ɖ	c ɟ	k ɡ	q ɢ		ʔ
Nasal	m	ɱ		n		ɳ	ɲ	ŋ	ɴ		
Trill	ʙ			ʀ					ʀ		
Tap or Flap		ⱱ		ɾ		ɽ					
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	ʂ ʐ	ç ʝ	x ɣ	χ ʁ	ħ ʕ	h ɦ
Lateral fricative				ɬ ɮ							
Approximant		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:
ǀ Dental	ɗ Dental/alveolar	ɓ' Bilabial
ǃ (Post)alveolar	ɟ Palatal	ɗ' Dental/alveolar
ǃ̥ Palatoalveolar	ɡ Velar	ɡ' Velar
ǁ Alveolar lateral	ɠ Uvular	ɠ' Alveolar fricative

## VOWELS



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

## OTHER SYMBOLS

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

ts̺ kp̺

## SUPRASEGMENTALS

- ˈ Primary stress
- ˌ Secondary stress
- ː Long
- ˑ Half-long
- ˚ Extra-short
- ◌| Minor (foot) group
- ◌|| Major (intonation) group
- ◌. Syllable break
- ◌◌ Linking (absence of a break)

ˈfounəˈtɪʃən

eː

eˑ

e˚

ˌi.ækt

## DIACRITICS

◌◌ Voiceless	◌◌ ɸ ɸ̥	◌◌ Breathy voiced	◌◌ ɓ̤ ɓ̤̤	◌◌ Dental	◌◌ ʈ̪ ɖ̪
◌◌ Voiced	◌◌ ɸ̥ ɸ̥̥	◌◌ Creaky voiced	◌◌ ɓ̤̤ ɓ̤̤̤	◌◌ Apical	◌◌ ʈ̪̺ ɖ̪̺
◌◌ Aspirated	◌◌ tʰ dʰ	◌◌ Linguolabial	◌◌ t̪̺ ɖ̪̺	◌◌ Laminal	◌◌ ʈ̪̺̺ ɖ̪̺̺
◌◌ More rounded	◌◌ ɔ̞	◌◌ Labialized	◌◌ t̪̺ʷ ɖ̪̺ʷ	◌◌ Nasalized	◌◌ ẽ̃
◌◌ Less rounded	◌◌ ɔ̟	◌◌ Palatalized	◌◌ t̪̺ʲ ɖ̪̺ʲ	◌◌ Nasal release	◌◌ d̪̺̺̺
◌◌ Advanced	◌◌ ɸ̟ ɸ̟̟	◌◌ Velarized	◌◌ t̪̺̺̺ ɖ̪̺̺̺	◌◌ Lateral release	◌◌ d̪̺̺̺̺
◌◌ Retracted	◌◌ ɸ̠ ɸ̠̠	◌◌ Pharyngealized	◌◌ t̪̺̺̺̺ ɖ̪̺̺̺̺	◌◌ No audible release	◌◌ d̪̺̺̺̺̺
◌◌ Centralized	◌◌ ẽ̞	◌◌ Velarized or pharyngealized	◌◌ ɬ̺		
◌◌ Mid-centralized	◌◌ ẽ̟	◌◌ Raised	◌◌ ɟ̟ (ɟ̟ = voiced alveolar fricative)		
◌◌ Syllabic	◌◌ ɱ̩	◌◌ Lowered	◌◌ ɟ̟̟ (ɟ̟̟ = voiced bilabial approximant)		
◌◌ Non-syllabic	◌◌ ɱ̩̯	◌◌ Advanced Tongue Root	◌◌ ɟ̟̟̟		
◌◌ Rhoticity	◌◌ ɹ̥ ɹ̥̥	◌◌ Retracted Tongue Root	◌◌ ɟ̟̟̟̟		

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