

# THE INTERNATIONAL PHONETIC ALPHABET (revised to 2020)

## CONSONANTS (PULMONIC)

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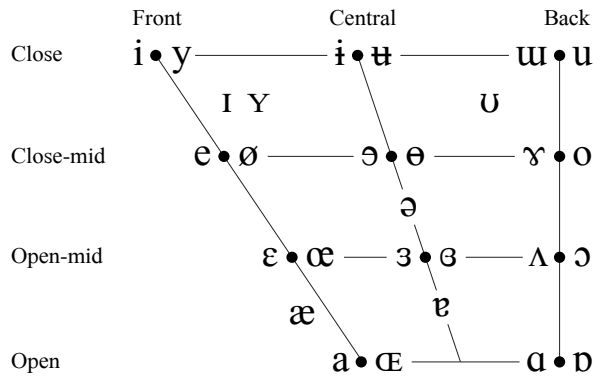
	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b			t d		ʈ ɖ	c ɟ	k ɡ	q ɢ		ʔ
Nasal	m	ɱ		n		ɳ	ɲ	ŋ	ɴ		
Trill	ʙ			ʀ					ʀ		
Tap or Flap		ⱱ		ɾ		ɽ					
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	ʂ ʐ	ç ʝ	x ɣ	χ ʁ	ħ ʕ	h ɦ
Lateral fricative				ɬ ɮ							
Approximant		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
◌ ʘ Bilabial	◌ ɓ Bilabial	◌ ʼ Examples:
◌ ǀ Dental	◌ ɗ Dental/alveolar	◌ pʼ Bilabial
◌ ǃ (Post)alveolar	◌ ɟ Palatal	◌ tʼ Dental/alveolar
◌ ǂ Palatoalveolar	◌ ɡ Velar	◌ kʼ Velar
◌ ǁ Alveolar lateral	◌ ɠ Uvular	◌ sʼ Alveolar fricative

## VOWELS



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

## OTHER SYMBOLS

- ◌ ɹ̥ Voiceless labial-velar fricative
  - ◌ ɹ̥ Alveolo-palatal fricatives
  - ◌ ɹ̥ Voiced labial-velar approximant
  - ◌ ɹ̥ Voiced alveolar lateral flap
  - ◌ ɹ̥ Voiced labial-palatal approximant
  - ◌ ɹ̥ Simultaneous ʃ and x
  - ◌ ɹ̥ Voiceless epiglottal fricative
  - ◌ ɹ̥ Voiced epiglottal fricative
  - ◌ ɹ̥ Epiglottal plosive
- Affricates and double articulations can be represented by two symbols joined by a tie bar if necessary.

ts̠ kp̠

## SUPRASEGMENTALS

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

## DIACRITICS

◌ ː Voiceless	◌ ː ɳ ɖ	◌ ː Breathy voiced	◌ ː ɓ ɗ	◌ ː Dental	◌ ː ʈ ɖ
◌ ˑ Voiced	◌ ˑ ʂ ʐ	◌ ˑ Creaky voiced	◌ ˑ ɓ ɗ	◌ ˑ Apical	◌ ˑ ʈ ɖ
◌ ˑ Aspirated	◌ ˑ tʰ dʰ	◌ ˑ Linguolabial	◌ ˑ t̠ d̠	◌ ˑ Laminal	◌ ˑ ʈ ɖ
◌ ˑ More rounded	◌ ˑ ɔ̞	◌ ˑ Labialized	◌ ˑ tʷ dʷ	◌ ˑ Nasalized	◌ ˑ ẽ
◌ ˑ Less rounded	◌ ˑ ɔ̟	◌ ˑ Palatalized	◌ ˑ tʲ dʲ	◌ ˑ Nasal release	◌ ˑ dⁿ
◌ ˑ Advanced	◌ ˑ ɯ̟	◌ ˑ Velarized	◌ ˑ tˠ dˠ	◌ ˑ Lateral release	◌ ˑ dˡ
◌ ˑ Retracted	◌ ˑ ɯ̠	◌ ˑ Pharyngealized	◌ ˑ tˠ dˠ	◌ ˑ No audible release	◌ ˑ dˠ
◌ ˑ Centralized	◌ ˑ ẽ	◌ ˑ Velarized or pharyngealized	◌ ˑ ɬ		
◌ ˑ Mid-centralized	◌ ˑ ẽ	◌ ˑ Raised	◌ ˑ ɛ̥ (ɹ̥ = voiced alveolar fricative)		
◌ ˑ Syllabic	◌ ˑ ɳ̥	◌ ˑ Lowered	◌ ˑ ɛ̥ (β̥ = voiced bilabial approximant)		
◌ ˑ Non-syllabic	◌ ˑ ɳ̥	◌ ˑ Advanced Tongue Root	◌ ˑ ɛ̥		
◌ ˑ Rhoticity	◌ ˑ ɹ̥ ɹ̥	◌ ˑ Retracted Tongue Root	◌ ˑ ɛ̥		

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

## TONES AND WORD ACCENTS

- | LEVEL    | CONTOUR            |
|----------|--------------------|
| ◌ ˩ or ˨ | ◌ ˩ or ˨ Rising    |
| ◌ ˥      | ◌ ˥ Falling        |
| ◌ ˨      | ◌ ˨ High rising    |
| ◌ ˩      | ◌ ˩ Low rising     |
| ◌ ˩      | ◌ ˩ Rising-falling |
| ◌ ˩      | ◌ ˩ Global rise    |
| ◌ ˩      | ◌ ˩ Global fall    |