

# THE INTERNATIONAL PHONETIC ALPHABET (revised to 2018)

## CONSONANTS (PULMONIC)

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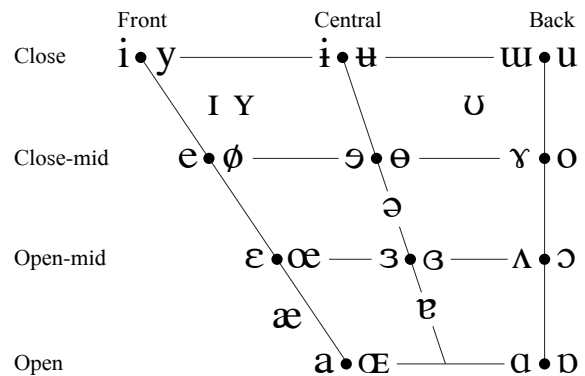
	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	<b>p b</b>			<b>t d</b>		<b>ʈ ɖ</b>	<b>c ɟ</b>	<b>k ɡ</b>	<b>q ɢ</b>		<b>ʔ</b>
Nasal	<b>m</b>	<b>ɱ</b>		<b>n</b>		<b>ɳ</b>	<b>ɲ</b>	<b>ŋ</b>	<b>ɴ</b>		
Trill	<b>ʙ</b>			<b>r</b>					<b>ʀ</b>		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

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
ǂ Palatoalveolar	ɡ Velar	ɟ' Velar
ǁ Alveolar lateral	ɠ Uvular	ɟ' Alveolar fricative

## VOWELS



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

## OTHER SYMBOLS

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

ts̺    kp̺

## SUPRASEGMENTALS

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

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

◌◌ Voiceless	◌̥ ◌̜	◌◌ Breathy voiced	◌̤ ◌̚	◌◌ Dental	◌̪ ◌̫
◌◌ Voiced	◌̩ ◌̯	◌◌ Creaky voiced	◌̰ ◌̱	◌◌ Apical	◌̽ ◌̾
◌◌ Aspirated	◌ʰ ◌ʰ	◌◌ Linguolabial	◌̙ ◌̚	◌◌ Laminal	◌̼ ◌̽
◌◌ More rounded	◌̙	◌◌ Labialized	◌ʷ ◌ʷ	◌◌ Nasalized	◌̃
◌◌ Less rounded	◌̙	◌◌ Palatalized	◌ʲ ◌ʲ	◌◌ Nasal release	◌̚
◌◌ Advanced	◌̟	◌◌ Velarized	◌̠ ◌̠	◌◌ Lateral release	◌̚
◌◌ Retracted	◌̠	◌◌ Pharyngealized	◌̡ ◌̡	◌◌ No audible release	◌̚
◌◌ Centralized	◌̠	◌◌ Velarized or pharyngealized	◌̠		
◌◌ Mid-centralized	◌̠	◌◌ Raised	◌̠ (ɹ̠ = voiced alveolar fricative)		
◌◌ Syllabic	◌̚	◌◌ Lowered	◌̠ (β̠ = voiced bilabial approximant)		
◌◌ Non-syllabic	◌̚	◌◌ Advanced Tongue Root	◌̠		
◌◌ Rhoticity	◌̠ ◌̠	◌◌ Retracted Tongue Root	◌̠		

## TONES AND WORD ACCENTS

- | LEVEL               | CONTOUR           |
|---------------------|-------------------|
| ◌̥ or ◌̦ Extra high | ◌̥ or ◌̦ Rising   |
| ◌̥ High             | ◌̥ Falling        |
| ◌̥ Mid              | ◌̥ High rising    |
| ◌̥ Low              | ◌̥ Low rising     |
| ◌̥ Extra low        | ◌̥ Rising-falling |
| ◌̥ Downstep         | ◌̥ Global rise    |
| ◌̥ Upstep           | ◌̥ Global fall    |