

- 1 Lips
- 2 Teeth
- 3 Alveolar ridge
- 4 Hard palate
- 5 Soft palate (velum)
- 6 Uvula
- 7 Tip of the tongue
- 8 Blade of the tongue
- 9 Front of the tongue
- 10 Back of the tongue
- 11 Nasal cavity
- 12 Oral cavity
- 13 Pharynx
- 14 Larynx

Figure 1 The organs of speech

CONSONANTS (PULMONIC)

	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				r					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			

Where symbols appear in pairs, the one to the right represents a voiced consonant. 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

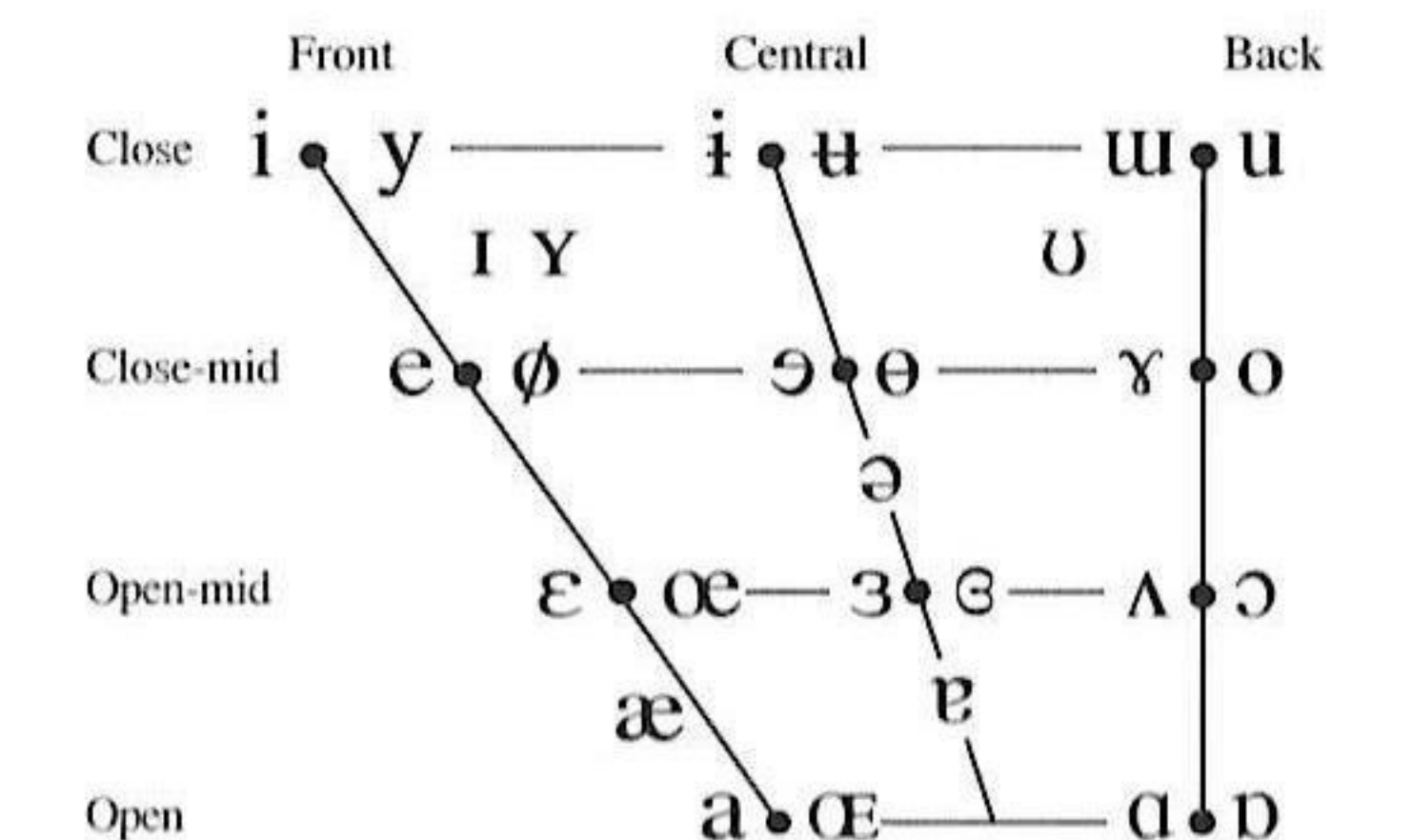
OTHER SYMBOLS

- ʍ Voiceless labial-velar fricative
- ʋ Voiced labial-velar approximant
- ɥ Voiced labial-palatal approximant
- ħ Voiceless epiglottal fricative
- ʕ Voiced epiglottal fricative
- ʡ Epiglottal plosive
- ɕ ʑ Alveolo-palatal fricatives
- ɻ Voiced alveolar lateral flap
- ɧ Simultaneous ʃ and x

DIACRITICS Diacritics may be placed above a symbol with a descender, e.g. ɪ̥

◌̥ Voiceless	◌̤ Breathy voiced	◌̦ Dental
◌̦ Voiced	◌̧ Creaky voiced	◌̨ Apical
◌̨ Aspirated	◌̩ Linguolabial	◌̪ Laminal
◌̩ More rounded	◌̪ Labialized	◌̫ Nasalized
◌̪ Less rounded	◌̫ Palatalized	◌̬ Nasal release
◌̫ Advanced	◌̬ Velarized	◌̭ Lateral release
◌̬ Retracted	◌̭ Pharyngealized	◌̮ No audible release
◌̭ Centralized	◌̮ Velarized or pharyngealized	
◌̮ Mid-centralized	◌̯ Raised	
◌̯ Syllabic	◌̰ Lowered	
◌̰ Non-syllabic	◌̱ Advanced Tongue Root	
◌̱ Rhoticity	◌̲ Retracted Tongue Root	

VOWELS



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

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)

TONES AND WORD ACCENTS

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

Figure 2 The International Phonetic Alphabet (Department of Theoretical and Applied Linguistics, School of English, Aristotle University of Thessaloniki, Thessaloniki 54124, Greece)