

THE INTERNATIONAL PHONETIC ALPHABET (revised to 2005)

CONSONANTS (PULMONIC)

NUMBER CHART

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	Bilabial	Labiodental	Dental	Alveolar	Post alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	101 102		103 104			105 106	107 108	109 110	111 112		113
Nasal	114	115	116			117	118	119	120		
Trill	121		122						123		
Tap or Flap		184	124			125					
Fricative	126 127	128 129	130 131	132 133	134 135	136 137	138 139	140 141	142 143	144 145	146 147
Lateral fricative			148 149								
Approximant		150	151			152	153	154			
Lateral approximant			155			156	157	158			

Where symbols appear in pairs, the one to the right represents a voiced consonant. Shaded areas denote articulations judged impossible.

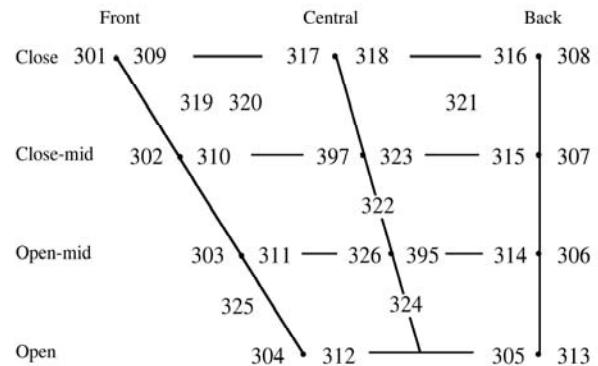
CONSONANTS (NON-PULMONIC)

Clicks		Voiced implosives		Ejectives	
176	Bilabial	160	Bilabial	401	Examples:
177	Dental	162	Dental/alveolar	101 + 401	Bilabial
178	(Post)alveolar	164	Palatal	103 + 401	Dental/alveolar
179	Palatoalveolar	166	Velar	109 + 401	Velar
180	Alveolar lateral	168	Uvular	132 + 401	Alveolar fricative

OTHER SYMBOLS

- | | |
|---------------------------------------|---|
| 169 Voiceless labial-velar fricative | 182 183 Alveolo-palatal fricatives |
| 170 Voiced labial-velar approximant | 181 Alveolar lateral flap |
| 171 Voiced labial-palatal approximant | 175 Simultaneous \int and χ |
| 172 Voiceless epiglottal fricative | |
| 174 Voiced epiglottal fricative | Affricates and double articulations can be represented by two symbols joined by a tie bar if necessary. |
| 173 Epiglottal plosive | |

VOWELS



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

SUPRASEGMENTALS

- 501 Primary stress
- 502 Secondary stress
- 503 Long $eː$
- 504 Half-long $eˑ$
- 505 Extra-short $e̚$
- 507 Minor (foot) group
- 508 Major (intonation) group
- 506 Syllable break $.i.ækt$
- 509 Linking (absence of a break)

TONES AND WORD ACCENTS

- | LEVEL | | CONTOUR | |
|-------|----------------|---------|--------------------|
| 512 | 519 Extra high | 524 | 529 Rising |
| 513 | 520 High | 525 | 530 Falling |
| 514 | 521 Mid | 526 | 531 High rising |
| 515 | 522 Low | 527 | 532 Low rising |
| 516 | 523 Extra low | 528 | 533 Rising-falling |
| 517 | Downstep | 510 | Global rise |
| 518 | Upstep | 511 | Global fall |

DIACRITICS Diacritics may be placed above a symbol with a descender, e.g. 119 + 402B

402A	Voiceless	$n̥ d̥$	405	Breathy voiced	$b̤ a̤$	408	Dental	$t̪ d̪$
403	Voiced	$s̬ t̬$	406	Creaky voiced	$b̰ a̰$	409	Apical	$t̺ d̺$
404	Aspirated	$tʰ dʰ$	407	Linguolabial	$t̼ d̼$	410	Laminal	$t̻ d̻$
411	More rounded	$ɔ̞$	420	Labialized	$tʷ dʷ$	424	Nasalized	$ẽ$
412	Less rounded	$ɔ̜$	421	Palatalized	$tʲ dʲ$	425	Nasal release	$d̪ⁿ$
413	Advanced	$u̟$	422	Velarized	$tˠ dˠ$	426	Lateral release	$d̪ˡ$
414	Retracted	$e̠$	423	Pharyngealized	$tˤ dˤ$	427	No audible release	$d̪̚$
415	Centralized	$ë$	428	Velarized or pharyngealized	209			
416	Mid-centralized	$ẽ$	429	Raised	$e̝$ ($\underset{+}{\text{J}}$ = voiced alveolar fricative)			
431	Syllabic	$n̩$	430	Lowered	$e̞$ ($\underset{-}{\text{B}}$ = voiced bilabial approximant)			
432	Non-syllabic	$e̯$	417	Advanced Tongue Root	$e̘$			
419	Rhoticity	327 $a̰$	418	Retracted Tongue Root	$e̙$			