THE INTERNATIONAL PHONETIC ALPHABET (revised to 2005)

CONSONANTS (PULMONIC)

NUMBER CHART

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	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	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		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	Voi	ced implosives	Ejectives		
176 Bilabial	160	Bilabial	401	Examples:	
177 Dental	162	Dental/alveolar	101 + 401	Bilabial	
178 (Post)alveola	ar 164	Palatal	103 + 401	Dental/alveolar	
179 Palatoalveol	ar 166	Velar	109 + 401	Velar	
180 Alveolar late	eral 168	Uvular	132 + 401	Alveolar fricative	

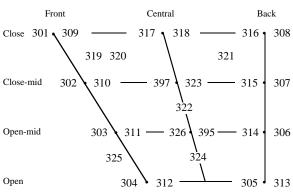
OTHER SYMBOLS

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 X
172	Voiceless epiglottal fricative		

Affricates and double articulations 174 Voiced epiglottal fricative can be represented by two symbols joined by a tie bar if necessary. 173 Epiglottal plosive

VOWELS

433 (509)



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

SUPRASEGMENTALS

50	1	Primary stress					
50	2	Secondary stress					
		_, foʊnə¹tı∫ən					
50	3	Long ex					
50	4	Half-long e^{v}					
50	5	Extra-short ĕ					
50	7	Minor (foot) group					
50	8	Major (intonation) group					
50	6	Syllable break Ji.ækt					
509	9	Linking (absence of a break)					
_		TEG AND WORD A COPINE					

	ΓONES EVEL	AND W		RD ACCENTS 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	Down	step	510	Global rise			
518	Upste	р	511	Global fall			

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

402A	Voiceless	ņ	ģ	405	Breathy voiced	ÿ	a	408	Dental	ţd
403	Voiced	Ş	ţ	406	Creaky voiced	þ	a	409	Apical	ţ d
404	Aspirated	th	d^{h}	407	Linguolabial	ţ	ğ	410	Laminal	ţd
411	More rounded	Ş		420	Labialized	tw	dw	424	Nasalized	ẽ
412	Less rounded	ç		421	Palatalized	t ^j	d^{j}	425	Nasal release	dn
413	Advanced	ų		422	Velarized	tγ	$\mathbf{d}^{\mathbf{y}}$	426	Lateral release	dl
414	Retracted	e		423	Pharyngealized	t^{c}	d_{δ}	427	No audible rele	ase d
415	Centralized	ë		428	128 Velarized or pharyngealized 209					
416	Mid-centralized	ďě		429	Raised	ę	Ę)	= voic	ed alveolar fricat	tive)
431	Syllabic	ņ		430	Lowered	ę	(= voic	ed bilabial appro	ximant)
432	Non-syllabic	ě		417	Advanced Tongu	ie Roo	t e	;		
419	Rhoticity	327	a	418	Retracted Tongu	e Root	e ę	;		