

TRANSCRIPTION CONVENTIONS

TYPES OF NOTATION

//	Phonemic or Tonemic or Phonotonic transcription	// //	Hyperphonemic transcription
[]	(Taxo-) Phonetic or Tonetic or Phonotonic transcription	[]	Hyperphonic transcription
< >	Paraphonic elements (◊) or Graphemic indication	< ◊ >	Paraphonic transcription (ie < ◊ / >, < ◊ [] >, &c)
()	unnecessary Phone or Phoneme	(())	potential Phone or Phoneme
↑\$	Milder realisation (ie less marked; [↑\$]: affected realisation)	↓\$	Broader realisation (ie more marked; [↓\$]: broadest realisation)
↕\$	Intentional realisation aiming at neutral pronunciation but often exaggerated (ie subjectively prestigious)		

POSITIONAL SPECIFICATIONS

\$...'	Protonic	#\$	Syllable-initial	#\$	Word-initial
\$'	Pretonic	\$#	Syllable-final	-\$-	Word-internal
'\$	Tonic	\$	Post-pausal	\$#	Word-final
'...\$	Postonic	\$	Utterance-final		

ALPHANUMERIC INDICATIONS

O*F	[æ]	Low near-front unrounded
9A*	[ɯ]	Near-high back rounded
7 ¹ *KS	[tʃ]	Lamino-postalveo-palatal grooved stopstricive
11 ² G*	[ɣ]	Velar rounded ungrooved semi-stopstricive (by proportion)

VOCOIDS

PRIMARY VOCOIDS (FUNDAMENTAL)

	Near-front	Backer-front	Frontier-back	Near-back	Front	Front-central	Central	Back-central	Back	
A	i	ɪ	ɨ	ʉ	Y	y	ɥ	ɯ	u	High
B	I	ɪ	ɨ	ʉ	ɥ	Y	ɥ	ɯ	U	Lower-high
C	e	ə	ə	ɤ	(ø)	ø	œ	o	o	Higher-mid
D	E	ɛ	ɛ	ɤ	(ø)	ø	œ	o	o	Lower-mid
E	ε	ɛ	ɛ	ɤ	(œ)	œ	æ	ə	ɔ	Higher-low
F	æ	A	a	ɑ	(æ)	æ	ɛ	ɔ	ɔ	Low
	0	1	2	3	4	5	6	7	8	9

SECONDARY VOCOIDS (INTERMEDIATE)

	0*	1*	2*	3*	5*	6*	7*	8*	
A*	i	ɪ	ɨ	ʉ					Near-high
B*	I	ɪ	ɨ	ʉ					Near-high-mid
C*	e	ə	ə	ɤ					Mid
D*	E	ɛ	ɛ	ɤ					Near-low-mid
E*	ε	ɛ	ɛ	ɤ					Near-low

VOCOIDS

WITH SECONDARY ARTICULATION

			p		Labiodentalised
			ɤ	ɤ	Uvulo-pharyngealised
			ɤ	ɤ	

Latero-provelarised (& nasalised)

			ɤ						
			ɤ						
			ɤ						
			ɤ						
			ɤ						

Unrounded	Rounded
Spread	Vertically rounded
Neutral	Rounded
Neutral	Vertically rounded
Neutral	Rounded or Vertically rounded
Neutral	Rounded

The eight vocoids in brackets are potentially producible but yet to be found distinctively possessed in any language.

Vocoids shall be capitalised when they are used as archiphonemes, eg /ø/ for /ø, œ/ [ø, œ] in French.

VOCOGRAM ILLUSTRATIONS

MONOPHTHONG MARKERS AND DIPHTHONG START-POINTS

■ ◆ ● Stressed	
□ ◇ ○ Unstressed	
▣ ▤ ◎ Xenophone	
■ ◆ ● Stressed or Unstressed (paired, if the next exists)	
■ ◆ ● Stressed or Unstressed (paired as vowel-harmony group; *)	
▣ ▤ ◎ Stressed or Pretonic unstressed	
▣ ▤ ◎ Stressed variant	
□ ◇ ○ Unstressed variant	
▣ ▤ ◎ Pretonic unstressed variant	
▣ ▤ ◎ Stressed or Unstressed milder variant (°)	
▣ ▤ ◎ Stressed or Unstressed broader variant (*)	
▣ ▤ ◎ Colloquial or contextual stressed variant	
▣ ▤ ◎ Colloquial or contextual unstressed variant	
▣ ▤ ◎ Colloquial or contextual stressed taxophonic variant	
▣ ▤ ◎ Colloquial or contextual unstressed taxophonic variant	
▣ ▤ ◎ Milder (Stressed or Unstressed; †) or Mildest (Stressed; ††(†)) variant	
▣ ▤ ◎ Broader (Stressed or Unstressed; ‡) or Broadest (Stressed; ‡‡(‡)) variant	

DIPHTHONG MOVEMENT MARKERS

—	Diphthong (paired, if any)
—	Paired diphthong
...	Diphthong (paired, if any), with monphthong at start-point
...	Paired diphthong, with monphthong at start-point

DIPHTHONG END-POINTS

(no dot)	Unrounded	^	Milder accent
•	Half-rounded	v	Broader accent
•	Rounded		

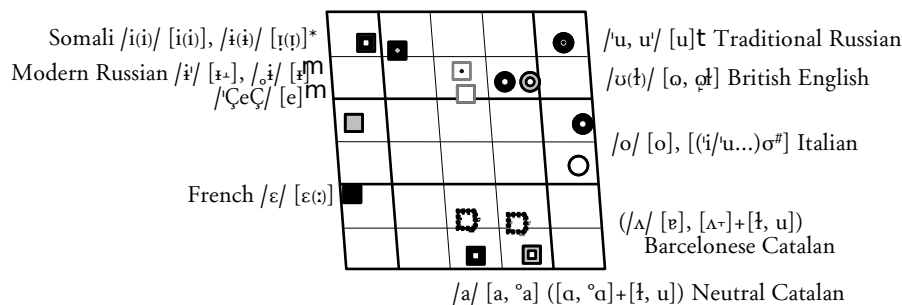
PRINCIPLES

SHADING	Filled	Stressed	Includes always or mostly stressed vocoids.
	Centre-filled	Xenophone	Occurs in loanwords or by exotic influence.
	Centre-unfilled	Stressed or Unstressed	
	Unfilled	Unstressed	Includes unstressed vocoids % all of their equivalents, which are not fully stressed, ie destressed, half-stressed, &c.
CONTENT	Dotted	Pretonic unstressed	
	Up-arrowheaded	Milder accent	
	Down-arrowheaded	Broader accent	
FRAME	Solid-framed	Common	
	Dash-framed	Colloquial or contextual variant	
COLOUR	Black	Paired (if any) or Neutral or Emic or Milder accent	
	Grey	Paired (per se) or Variant or Etic or Broader accent	
	White	Paired (if any)	
		Variants (grey) include geophones, sociophones and taxophones.	

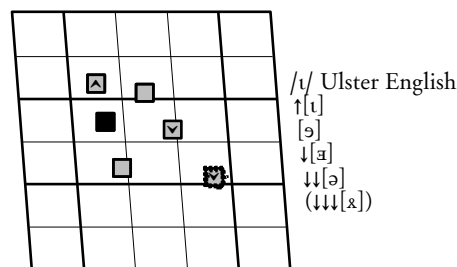
LABIAL POSITIONS IN SCALE OF 3 AND 6

SHAPE	Square	▣ Over-unrounded	⟨V⟩	⟨J⟩
		□ Unrounded	[ə] [ə]	[ʊ] [ʊ]
	Diamond	▣ Slightly unrounded	[ə]	[ʊ]
		◇ Half-rounded	[ə]	[ʊ]
	Circle	◎ Slightly rounded	[ø]	[w]
		○ Rounded	[ø] [ø]	[w] [w]
		◎ Over-rounded	[ø]/⟨V⟩	[w]/⟨J⟩

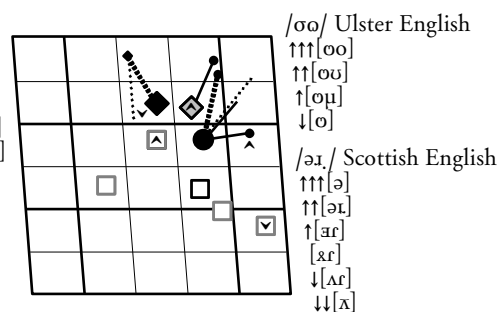
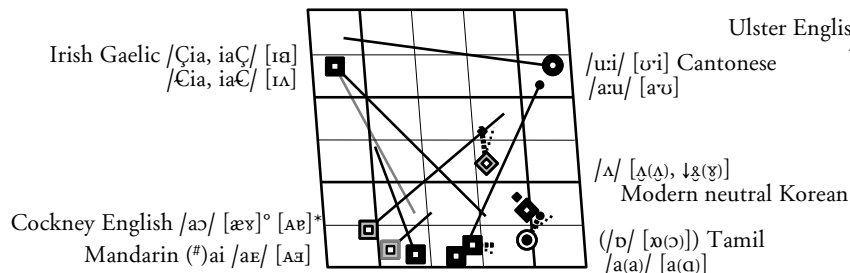
MONOPHTHONGS



SOCIOPHONES



DIPHTHONGS (WITH 4 MONOPHTHONGS)



CONTOIDS (1A)

			CONTOIDS (1A)																																			
			VOICING	BILABIAL	rounded	Labiodentalised bilabial	Semi-alveolarised bilabial	Palatalised bilabial	Prevelarised bilabial	Velarised or Uvularised bilabial	rounded	Labial-apical	LABIODENTAL	rounded	Hyper-labiodental	Palatalised labiodental	Velarised labiodental	rounded	Uvularised labiodental	rounded	Pre-dental	Pro-dental or interdental	APICO-DENTAL	Lamino-dental	Dental rounded	Dental-bilabial	Bilabialised dental	Bilabialised palatalised dental	Semi-bilabialised dental	Labiodentalised dental	Palatalised dental	Velarised dental	rounded	Uvularised dental	rounded	Uvulo-labiodentalised dental		
Semi-nasal [N]	+	m̥								ṁ			m̥												ṇ													
NASAL /N/ [N, N]	-	ṁ											ṁ											ṇ̥														
	+	m	m̥										m̥	m̥	m̥	m̥	m̥	m̥	m̥	m̥	m̥		n̥														ɱ	
STOP /K/ [K, G]	-	p̥	p̥										p̥	p̥	p̥	p̥	p̥	p̥	p̥	p̥		t̥		t̥	t̥	p̥												
	+	b̥	p̥										b̥	p̥	b̥	p̥	b̥	p̥	b̥	p̥		d̥		d̥	d̥	b̥												
Semi-stop [K, G]	-	p̥																					t̥															
	+	b̥																					d̥															
STOPSTRICTIVE /Kʷ/ [Kʷ, Gʷ]	-	pp̥	pp̥										pf̥										t̥θ̥	t̥θ̥	t̥θ̥													
	+	b̥p̥	b̥p̥										bv̥										d̥p̥	d̥θ̥	d̥θ̥													
Ungrooved stop-semi-strictive [Kʷ, Gʷ]	-	p̥θ̥											pf̥										t̥θ̥															
	+	b̥θ̥											bv̥										d̥θ̥															
Ungrooved semi-stop-strictive by detension & proportion* [Kʷ, Gʷ(*)]	-												d̥pf̥	pf̥	p̥							d̥t̥θ̥	t̥θ̥	p̥														
	+												b̥v̥	b̥v̥								d̥d̥θ̥	d̥θ̥															
Ungrooved semi-stop-semi-strictive [Gʷ]	-												b̥v̥	b̥v̥																								
	+																																					
Grooved stopstrictive [Kʷ, Gʷ]	-																						t̥s̥	t̥s̥	t̥s̥													
	+																						d̥t̥s̥	d̥t̥s̥	d̥t̥s̥													
Grooved stop-semi-strictive [Kʷ, Gʷ]	-																						t̥s̥															
	+																						d̥t̥s̥															
Grooved semi-stop-strictive by detension & proportion* [Kʷ, Gʷ(*)]	-																						d̥t̥s̥	t̥s̥	p̥													
	+																						d̥t̥s̥	d̥t̥s̥														
Lateral stopstrictive [Kʷ, Gʷ]	-																						t̥ʃ̥															
	+																						d̥ʃ̥															
CONSTRUCTIVE /ʃ/ [ʃ, ʒ]	-	ʃ̥	ʃ̥			ʃ̥	ʃ̥	ʃ̥	ʃ̥	ʃ̥	f̥	f̥		f̥	f̥	f̥	f̥	f̥	f̥	f̥	θ̥	θ̥	θ̥							θ̥	θ̥							
	+	β̥	β̥			β̥	β̥	β̥	β̥	β̥	v̥	v̥		v̥	v̥	v̥	v̥	v̥	v̥	v̥	ð̥	ð̥	ð̥							ð̥	ð̥							
Ungrooved semi-constrictive [X, ʏ]	-	θ̥									f̥	f̥		f̥								θ̥																
	+	β̥									v̥	v̥		v̥								ð̥																
Semi-grooved constrictive [ʃ, ʒ]	-																						s̥															
	+																						z̥															
Grooved constrictive [ʃ, ʒ]	-																						s̥	s̥	ŝ̥						s̥							
	+																						z̥	z̥	ẓ̥						z̥							
Grooved semi-constrictive [ʃ, ʒ]	-																						ʃ̥	ʃ̥														
	+																						ʒ̥	ʒ̥														
	±	o¹	o²	o³	o⁴	o⁵	o⁶	o⁷	o⁸	o⁹	1¹	1²	1³	1⁴	1⁵	1⁶	1⁷	1⁸	2¹	2²	2³	2⁴	2⁵	2⁶	2⁷	2⁸	2⁹	2¹⁰	2¹¹	2¹²	2¹³	2¹⁴	2¹⁵	2¹⁶				

CONTOIDS (1B)

	VOICING	BILABIAL	rounded	Labiodentalised bilabial	Semi-alveolarised bilabial	Palatalised bilabial	Prevelarised bilabial	Velarised or Uvularised bilabial	rounded	Labial-apical	LABIODENTAL	rounded	Hyper-labiodental	Palatalised labiodental	Velarised labiodental	rounded	Uvularised labiodental	rounded	Pre-dental	Pre-dental or interdental	APICO-DENTAL	Lamino-dental	Dental rounded	Dental-bilabial	Bilabialised dental	Bilabialised palatalised dental	Semi-bilabialised dental	Labiodentalised dental	Palatalised dental	Velarised dental	rounded	Uvularised dental	rounded	Uvulo-labiodentalised dental
APPROXIMANT //	-	Φ	Φ			Φ	Φ				F	F		F			F				ɿ													
[H, ɦ]	+	β	β			β	β				u	u		ʋ			ʊ				ɔ													
Semi-approximant	-	Φ									ɥ	ɥ									ʒ													
[H, ɦ]	+	ɸ									ɥ	ɥ					ʊ				ɔ													
Nasalisd approximant	+																																	
Lamino-lateralised approximant	+																				ɸ													

TRILL, TAP & FLAP /R/ [R, R]

Trill [R, R]	-	P																			ɾ													
	+	B																			ɾ													
Tap [ɹ, ɹ]	-																				ɾ													
	+	ɹ									v										ɾ													
Flap [ɹ, ɹ]	-										ɹ																							
	+										ɹ																							
Constrictive trill [K, R]	-																																	
	+																																	
Constrictive tap [K*, R*]	-																																	
	+																																	
Lateralised tap & flap [ɹ, ɹ] & [ɹ, ɹ]	-																																	
	+																																	

LATERAL /L/ [L, L]

	+																				l																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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All contoids have pulmonic phones; places of articulation 1-6 are considered front, 7-13 back (where 8-11 also median), and 14 laryngeal.

- ☐ Voiceless C with ejective phone [K']

☒ Voiced C with injective phone [T]

☐ Diphonic pair with dejective phone [K, ʔ]
- ☐ Hyperphonetic

☒ Canonical artɲ in *offIPA*

☒ Both above

☐ Less frequent articulation
- ☐ Diphonic pair with tongue tip lowered or raised (*)

☐ Diphonic pair with tongue tip lowered

☐ Diphonic pair with tongue tip raised (*)

☐ Diphonic pair with tongue tip raised (*) or rarely lowered

CONTOIDS (2A)

		VOICING	LAMINO-DENTI-ALVEOLAR	rounded	Semi-bilabialised denti-alveolar	Labiodentalised denti-alveolar	APICO-ALVEOLAR	rounded	protruded	Alveolar-bilabial	Bilabialised apico-alveolar	Semi-bilabialised apico-alveolar	Labio-palatalised apico-alveolar	Labiodentalised apico-alveolar	Prevelarised apico-alveolar	rounded	Velar- or Uvular-ised apico-alveolar	rounded	Semi-velarised apico-alveolar	rounded	Back apico-alveolar	rounded	APICO-POSTALVEOLAR	rounded	slightly rounded	labiodentalised	Apico-postalveolar-bilabial	Bilabialised apico-postalveolar	Velarised apico-postalveolar	rounded	slightly rounded	Uvularised apico-postalveolar	rounded	Back apico-postalveolar		
Semi-nasal [N]		+					ɲ										ɴ							ɳ					ɲ							
NASAL /N/ [N, N]		-	ɳ				ɲ			ɳ							ɳ							ɳ					ɳ							
		+	ɳ				n	ɳ		ɳ	ɳ	ɳ	ɳ	ɳ			ɳ	ɳ					ɳ	ɳ			ɳ	ɳ	ɳ							
STOP /K/ [K, G]		-	ʈ	ʈ	ʈ	ʈ	ʈ	ʈ	ʈ	ʈ	ʈ	ʈ	ʈ	ʈ	ʈ	ʈ	ʈ	ʈ	ʈ	ʈ	ʈ	ʈ	ʈ	ʈ	ʈ	ʈ	ʈ	ʈ	ʈ	ʈ	ʈ	ʈ	ʈ	ʈ		
		+	ɖ	ɖ	ɖ	ɖ	ɖ	ɖ	ɖ	ɖ	ɖ	ɖ	ɖ	ɖ	ɖ	ɖ	ɖ	ɖ	ɖ	ɖ	ɖ	ɖ	ɖ	ɖ	ɖ	ɖ	ɖ	ɖ	ɖ	ɖ	ɖ	ɖ	ɖ	ɖ		
Semi-stop [K, G]		-					ʈ																ʈ													
		+					ɖ																ɖ													
STOPSTRICTIVE /Kʰ/ [Kʰ, Gʰ]		-					tʰ	tʰ															tʰ	tʰ												
		+					ɖʰ	ɖʰ															ɖʰ	ɖʰ												
Ungrooved stop-strictive [Kʰ, Gʰ]		-																																		
		+					d	p																												
Ungrooved semi-stop-strictive by detension & proportion* [Kʰ, Gʰ]		-					tʰ	tʰ																												
		+					ɖʰ	ɖʰ																												
Grooved stopstrictive [Kʰ, Gʰ]		-	ʈʰ	ʈʰ			ʈʰ	ʈʰ	ʈʰ								ʈʰ	ʈʰ					ʈʰ	ʈʰ					ʈʰ	ʈʰ						
		+	ɖʰ	ɖʰ			ɖʰ	ɖʰ	ɖʰ								ɖʰ	ɖʰ					ɖʰ	ɖʰ					ɖʰ	ɖʰ						
Grooved stop-semi-strictive [Kʰ, Gʰ]		-					ʈʰ										ʈʰ						ʈʰ													
		+					ɖʰ										ɖʰ						ɖʰ													
Grooved semi-stop-strictive by detension & proportion* [Kʰ, Gʰ]		-															d	ʈʰ	ʈʰ	p																
		+															ɖʰ	ʈʰ	ʈʰ				ɖʰ	ʈʰ												
Lateral stopstrictive [Kʰ, Gʰ]		-					ʈʰ	ʈʰ									ʈʰ	ʈʰ					ʈʰ	ʈʰ												
		+					ɖʰ	ɖʰ									ɖʰ	ɖʰ					ɖʰ	ɖʰ												
Trilled & tapped * stopstrictive [Kʰ, Gʰ]		-					ʈʰ	ʈʰ																												
		+					ɖʰ	ɖʰ																												
							tr	t																												
CONSTRUCTIVE /ʒ/ [ʒ, ʒ]		-					ʒ	ʒ															ʒ	ʒ												
		+					ʒ	ʒ															ʒ	ʒ												
Ungrooved semi-constrictive [ʒ, ʒ]		-					ʒ																													
		+					ʒ																													
Semi-grooved constrictive [ʒ, ʒ]		-	ʒ				ʒ																ʒ													
		+	ʒ				ʒ																ʒ													
Grooved constrictive [ʒ, ʒ]		-	ʒ	ʒ			ʒ	ʒ	ʒ								ʒ	ʒ					ʒ	ʒ					ʒ	ʒ						
		+	ʒ	ʒ			ʒ	ʒ	ʒ								ʒ	ʒ					ʒ	ʒ					ʒ	ʒ						
Grooved semi-constrictive [ʒ, ʒ]		-	ʒ				ʒ										ʒ						ʒ													
		+	ʒ				ʒ										ʒ						ʒ													
			±	3 ¹	3 ²	3 ³	3 ⁴	4 ¹	4 ²	4 ³	4 ⁴	4 ⁵	4 ⁶	4 ⁷	4 ⁸	4 ⁹	4 ¹⁰	4 ¹¹	4 ¹²	4 ¹³	4 ¹⁴	4 ¹⁵	4 ¹⁶	5 ¹	5 ²	5 ³	5 ⁴	5 ⁵	5 ⁶	5 ⁷	5 ⁸	5 ⁹	5 ¹⁰	5 ¹¹	5 ¹²	

VOICING	
LAMINO-DENTI-ALVEOLAR	
rounded	
Semi-bilabialised denti-alveolar	
Labiodentalised denti-alveolar	
APICO-ALVEOLAR	
rounded	
protruded	
Alveolar-bilabial	
Bilabialised apico-alveolar	
Semi-bilabialised apico-alveolar	
Labio-palatalised apico-alveolar	
Labiodentalised apico-alveolar	
Prevelarised apico-alveolar	
rounded	
Velar- or Uvularised apico-alveolar	
rounded	
Semi-velarised apico-alveolar	
rounded	
Back apico-alveolar	
rounded	
APICO-POSTALVEOLAR	
rounded	
slightly rounded	
labiodentalised	
Apico-postalveolar-bilabial	
Bilabialised apico-postalveolar	
Velarised apico-postalveolar	
rounded	
slightly rounded	
Uvularised apico-postalveolar	
rounded	
Back apico-postalveolar	

TRILL, TAP & FLAP /R/ [R, R]

ɾ	Diaphone of ʀ & ɭ, where oscillation is possible between alveolar /ɾ, ɾ/ & /ɭ, ɭ/ (tap, lateralised; tapped, lateral).
---	--

[illegible]

All contoids have pulmonic phones; places of articulation 1-6 are considered front, 7-13 back (where 8-11 also median), and 14 laryngeal.

- ☐ Voiceless C with ejective phone [K']
☐ Voiced C with injective phone [T]
☐ Diphonic pair with dejective phone [C, T]
☐ Hyperphonic
☐ Canonical artN in *offIPA*
☒ Both above
☐ Less frequent articulation
☐ Diphonic pair with tongue tip lowered or raised (*)
☐ Diphonic pair with tongue tip lowered
☐ Diphonic pair with tongue tip raised (*)
☐ Diphonic pair with tongue tip raised (*) or rarely lowered

CONTOIDS (3A)

		CONTONDS (3A)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
		VOICING		SUBAPICO-PALATAL		rounded		Velarised subapico-palatal rounded		LAMINO-POSTALVEO-PALATAL		protruded		over-rounded		Velarised lamino-postalveo-palatal		Lamino-postalveo-prevelar		protruded		over-rounded		Lamino-postalveo-velar		protruded		over-rounded		labiodentalised		LAMINO-PREPALATAL		rounded		Bilabialised lamino-prepalatal		Labiodentalised lamino-prepalatal		Velarised lamino-prepalatal		Lamino-propalatal		LAMINO-PALATAL		rounded		Uvularised lamino-palatal		rounded		Postpalatal		rounded																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Semi-nasal [N]		+																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

CONTOLDS (3B)

[illegible]









TRILL, TAP & FLAP /R/ [R, R]

[illegible]

LATERAL /L/ [ɭ, ʌ]

LATERAL /l/ [l, L]	-																	
	+																	
Unilateral [ɭ, ɮ]	-																	
	+																	
Constrictive (uni)lateral [ɬ, ɮ̥]	-																	
	+																	
Semi-constrictive (uni)lateral [ɬ̞, ɮ̞̥]	-																	
	+																	
Tapped lateral [ɺ]	+																	
Semilateral [ɭ̟]	+																	

All contoids have pulmonic phones; places of articulation 1-6 are considered front, 7-13 back (where 8-11 also median), and 14 laryngeal.

-  Voiceless C with ejective phone [K']
 Voiced C with injective phone [T]
 Diphonic pair with dejective phone [K', T']
 Hyperphonic
 Canonical artN in *offIPA*
 Both above
 Less frequent articulation
 Diphonic pair with tongue tip lowered or raised (*)
 Diphonic pair with tongue tip lowered
 Diphonic pair with tongue tip raised (*)
 Diphonic pair with tongue tip raised (*) or rarely lowered

CONTOIDS (4A)

CONTOIDS (4A)																																
	VOICING	Prevelar	rounded	postalveolarised slightly rounded	Prevelar	rounded	VELAR	rounded	uvulo-postalveolarised slightly r.	Velar-bilabial	Velar-dental	Velar-alveolar	Labiodentalised velar	Semi-dentalised velar	Semi-alveolarised velar	Uvularised velar rounded	Preuvular	rounded	UVULAR	rounded	Pharyngealised uvular	rounded	Prepharyngeal	PHARYNGEAL	rounded	LARYNGEAL	rounded	Palatalised laryngeal	Velarised laryngeal	rounded	Uvularised laryngeal	
Semi-nasal [N]	+			ɳ					ɴ											ɴ̠												
NASAL /N/ [N, N]	-	ɲ̥					ɲ̥													ɲ̥̠		ɲ̥̠										
	+	ɲ̣					ɲ̣	ɲ̣̠		ɲ̣̠	ɲ̣̠	ɲ̣̠	ɲ̣̠	ɲ̣̠	ɲ̣̠					ɴ̣̠	ɴ̣̠	ɴ̣̠	ɴ̣̠									
STOP /K/ [K, G]	-	ᵀᵀ					ᵀᵀ	ᵀᵀ̠		ᵀᵀ̠	ᵀᵀ̠	ᵀᵀ̠	ᵀᵀ̠	ᵀᵀ̠	ᵀᵀ̠					ᵀᵀ̠̠	ᵀᵀ̠̠	ᵀᵀ̠̠	ᵀᵀ̠̠		ᵀᵀ̠̠̠							
	+	ᵀᵀ̣					ᵀᵀ̣	ᵀᵀ̣̠		ᵀᵀ̣̠	ᵀᵀ̣̠	ᵀᵀ̣̠	ᵀᵀ̣̠	ᵀᵀ̣̠	ᵀᵀ̣̠					ᵀᵀ̣̠̠	ᵀᵀ̣̠̠	ᵀᵀ̣̠̠	ᵀᵀ̣̠̠		ᵀᵀ̣̠̠̠							
Semi-stop [ᵀᵀ, ᵀᵀ̣]	-						ᵀᵀ													ᵀᵀ̠̠̠̠							ᵀᵀ̠̠̠					

STOPSTRICTIVE /KΣ/ [KΣ, GZ]

[illegible]CONSTRUCTIVE $/\Sigma/$ $[\Sigma, Z]$ [illegible]

CONTOLDS (4B)

[illegible]

TRILL, TAP & FLAP /R/ [R, R]

Trill [ʀ, ʀ]	-											ʀ	ʀ̃						
	+											ʀ	ʀ̃						
Tap [ɹ, ɹ]	-											ɹ							
	+											ɹ							
Flap [ɹ, ɹ]	-																		
	+																		
Constrictive trill [ʁ, ʁ]	-					ʁ						ʁ	ʁ̃	ʁ			ʁ̃		
	+					ʁ						ʁ	ʁ̃	ʁ			ʁ̃		
Constrictive tap [ʁ*, ʁ*]	-					ʁ													
	+					ʁ													
Lateralised tap & flap [ɹ̥, ɹ̥] & [ɹ̥, ɹ̥]	-																		
	+																		

LATERAL /L/ [ɭ, ʌ]

[illegible]

All contoids have **pulmonic phones**; places of articulation 1-6 are considered front, 7-13 back (where 8-11 also median), and 14 laryngeal.

- ☐ Voiceless C with ejective phone [K'] ☐ Hyperphonic ☐ Diphonic pair with tongue tip lowered or raised (*)
☐ Voiced C with injective phone [T] ☐ Canonical artN in *offIPA* ☐ Diphonic pair with tongue tip lowered
☐ Diphonic pair with dejective phone [K, T] ☐ Both above ☐ Diphonic pair with tongue tip raised (*)
☐ Less frequent articulation ☐ Diphonic pair with tongue tip raised (*) or rarely lowered

PHONIC PECULIARITIES

SECONDARY ARTICULATION

\tilde{C}	\tilde{V}	Nasalised	$\underset{\sim}{V}$	Half-nasalised	$\sim C$	Prenasalised	$\underset{\sim}{V}$	Uvulo-pharyngealised
	N	Bilabialised	C	Semi-bilabialised	$\underset{\sim}{C}$	N	$\underset{\sim}{C}$	Semi- dentalised or alveolarised
$\underset{\sim}{C}$		Postalveolarised	$\underset{\sim}{C}$	Palatalised	$\underset{\sim}{C}$		$\underset{\sim}{C}$	Uvularised
$\equiv C$		Assimilated to following C	$\underset{\sim}{V}$	Latero-provelarised, ie r-isation (= [V] + [ɥ]; with the tongue laterally contracted; unrounded)				

AIRSTREAM MECHANISMS

C'	Ejective	$\text{'}C$	Dejective
'C	Injective	$\text{'}\text{'C}$	Prenasalised dejective

TYPES OF PHONATION

$\overset{2}{C}$		Glottalised voiceless or glottal release
$\underset{\Delta}{C}^{(Ch)}$		Voiceless
$\underset{\Delta}{V}$		Voiceless lenis or whisper or totally devoiced
$\underset{\cdot}{C}$		Voiceless lenis or whisper or Diaphonemic
$\underset{\cdot}{V}$		Normal or Diaphonemic
$\underset{\vee}{C}^{(C^h)}$		Modally voiced
$\underset{\cdot}{C}$		Voiced lenis or breathy voice
$\underset{\cdot}{C}$		Voiced creaky or laryngealised
$\underset{\cdot}{V}$		Creaky voice or laryngealised
$\underset{\circ}{C}$		Partially devoiced or mixed phonation

CONTOID OFFSETS

C_*	Exploded	$\underset{\Delta}{C}h$	$\underset{\vee}{C}h$	'Aspirated'
C'	Unexploded	$\underset{\Delta}{h}C$	$\underset{\vee}{h}C$	'Pre-aspirated'

LABIAL POSITIONS

$\underset{\sim}{C}$	$\underset{\sim}{V}$	(Over-)unrounded or Slightly rounded
$\underset{\sim}{C}$	$\underset{\sim}{V}$	(Over- or Half-)rounded or Slightly unrounded

MEDIODORSAL DISPLACEMENT

$\underset{\sim}{C}$	$\underset{\sim}{V}$		Canonical central position
$\underset{\sim}{C}$	$\underset{\sim}{V}$	\rightarrow	Advanced
$\underset{\sim}{C}$	$\underset{\sim}{V}$	\leftarrow	Retracted
$\underset{\sim}{C}$	$\underset{\sim}{V}$	\uparrow	Tenser or closer
$\underset{\sim}{C}$	$\underset{\sim}{V}$	\downarrow	Raised
$\underset{\sim}{C}$	$\underset{\sim}{V}$	\nearrow	Laxer or opener
$\underset{\sim}{C}$	$\underset{\sim}{V}$	\searrow	Lowered
$\underset{\sim}{C}$	$\underset{\sim}{V}$	\nearrow	Advanced & raised
$\underset{\sim}{C}$	$\underset{\sim}{V}$	\searrow	Retracted & raised
$\underset{\sim}{C}$	$\underset{\sim}{V}$	\nearrow	Advanced & lowered
$\underset{\sim}{C}$	$\underset{\sim}{V}$	\searrow	Retracted & lowered
		$\rightarrow\rightarrow$	Greater degree of displacement
		(\rightarrow)	Lesser degree of displacement

Tacks can be combining or post-modifying, ie $\underset{\sim}{V}$ or $\underset{\sim}{V}\text{'}$.

[illegible]

C Intense (ie syllabic) V Non-syllabic

$$\mathbb{V}_1$$
$$\Omega, \mathbb{U}$$

$$\mathbb{R}$$

$$\mathbb{L}$$

$$\mathbb{N}$$
B
Z
GZ
G
$$\begin{array}{c} \mathbb{V} \\ \triangle \\ \mathbb{N} \\ \Phi, \Sigma \\ \mathbb{K}\Sigma, \mathbb{K} \end{array}$$

- Syllable break Linking (absence of a break)

CC	Geminate	C̣C̣	ṾṾ	f Extra-long
Cː	Vː s Less than long	Cː	Vː	f Long
Cˑ	Vˑ s Less than half-long	Cˑ	Vˑ	f Half-long
C̣	Ṿ s Shortened (= Č̣ & Ṿ)	C̣	Ṿ	f Neutral (unmarked)

*\$	Strongly tensed falsetto	
"\$	f Extra-strong stress or emphatic stress	= = " ≡ = " " "
#\$	s Half-extra-strong stress	
'\$	f Strong stress or primary stress	- - ' _ / \ \
#\$	s Half-strong stress	
, \$	f Mid stress or secondary stress	.. , . . : : :
: \$	s Half-mid stress	
. \$ \$	f Weak stress (normally unmarked)
°\$	Destressed (from '\$/Π ^{III})	
◦\$	Reduced stress (from '\$)	
◌\$	Unstressed	
\$*	Epenthetic stress or extra-weak stress	
C V	Reduced (duration identical to Č & Ě) or extra-weak stress	

*\$		Extra-high					
= \$	-\$	· \$	° \$	High			
≡ \$	⌊ \$	⌋ \$	· \$	Half-high			
" \$	# \$	⌈ \$	⌋ \$	⌈ \$	⌋ \$	° \$	Mid
≡ \$	⌊ \$	⌋ \$	· \$	Half-low			
⌊ \$	⌋ \$	⌋ \$	⌋ \$	Low			

“\$	’\$	·\$	High rising
„\$,\$.\$	Low rising
“\$	’\$	·\$	High falling
„\$,\$.\$	Low falling
/ \$			Sharp rising
\ \$! \$		Sharp falling

$\uparrow \$$ Upstep or distinctive pitch raising
 $\downarrow \$$ Downstep or distinctive pitch lowering

f Fundamental, []

$\text{J}\$$ ("\\$)	High pointing
$\text{J}_\text{L}\$$ (L\\$)	Low pointing
$\text{J}\$$ ("\\$)	High blunting
$\text{J}_\text{L}\$$ (L\\$)	Low blunting
$\text{r}\$$ ("\\$)	High sharpening
$\text{r}_\text{L}\$$ (L\\$)	Low sharpening
$\text{v}\$$ ("\\$)	High flattening
$\text{v}_\text{L}\$$ (L\\$)	Low flattening
$\text{^}\$$ ("\\$)	High peaking
$\text{^}_\text{L}\$$ (L\\$)	Low peaking
$\text{v}\$$ ("\\$)	High dipping
$\text{v}_\text{L}\$$ (L\\$)	Low dipping
$\text{J}\$$ (L\\$)	Sharp pointing
$\text{J}\$$ ("\\$)	Sharp blunting
$\text{J}\$$ ("\\$)	Sharp sharpening
$\text{J}\$$ ("\\$)	Sharp flattening
$\text{J}\$$ ("\\$)	Sharp peaking
$\text{J}\$$ ("\\$)	Sharp dipping

S Supplementary, []

MACROSTRUCTURES

PAUSES (PAUSE GROUPS)

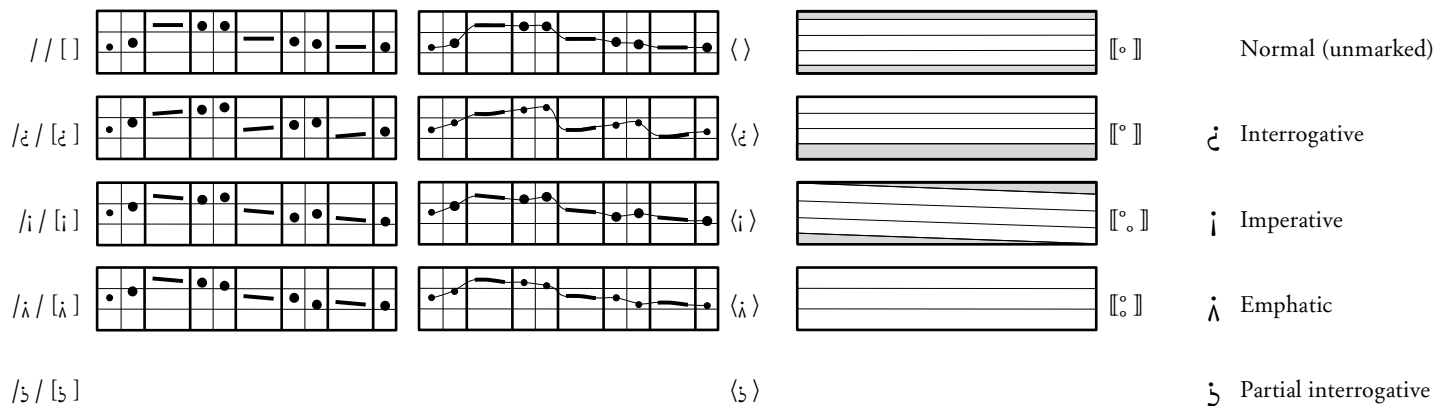
- ⋮ Potential pause (one that is uncertain or missing)
- | Short pause (2-4 \$ or 3 grapho-syllables)

- || Mid pause (5-7 \$ or 6 grapho-syllables)
- ||| Long pause (8-10 \$ or 9 grapho-syllables)

PROTUNES (PREINTONEMES)

eg Neutral British English

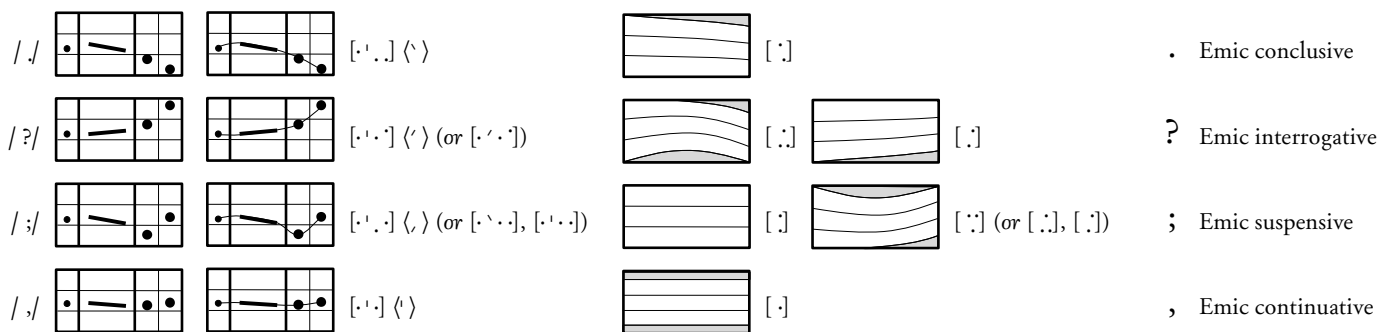
In tone languages



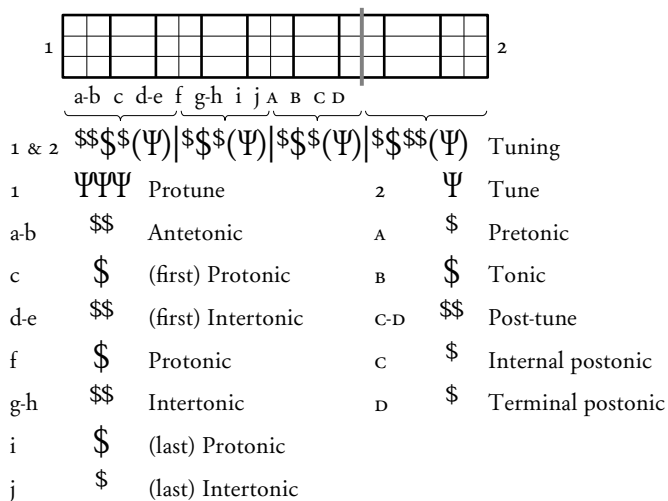
TUNES (INTONEMES)

eg Neutral British English

In tone languages

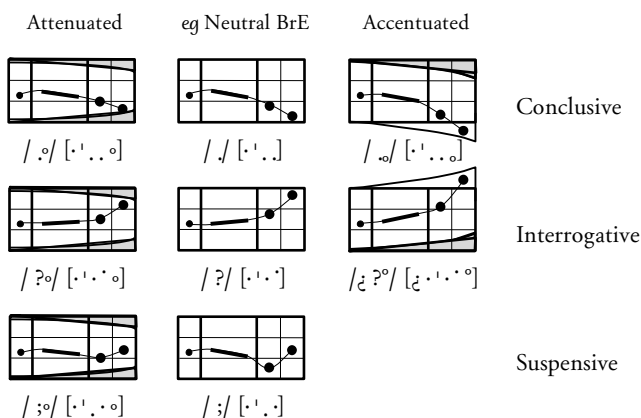


TUNINGS (INTONATION GROUPS)

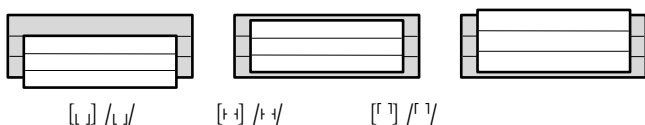


TUNE MODIFICATIONS

- | o | Tune attenuated
- | o | | o | Tune accentuated



GLOBAL PITCH COMPRESSION AND MOVEMENT



- [l] Low parenthesis (ie stress ↓, rate ↑, pitch ↓, low compression)
- [t t] Mid parenthesis (ie stress ↓, rate ↑, pitch ↑, mid compression)
- [r r] Quotation (ie stress ↑, rate ↓, pitch ↑, no compression)

SUPERSTRUCTURES

All superstructural (paraphonic) elements (⊙) shall be enclosed in angle brackets, which are elided for legibility in this table except for intonation markers in order to present their respective heights.

SPEECH RATE

- Slowness
- Quickness

SPEECH RHYTHM

- ≈ Rhythmicity (eg in sarcasm)
- ≈ Arhythmicity (eg in shyness)

PHONO-ARTICULATORY TIMING

- | Unfilled hesitation pause
- ⌚ Filled hesitation pause

PHONO-ARTICULATORY FORCE

- " Strength
- | Weakness

ARTICULATORY QUALITY

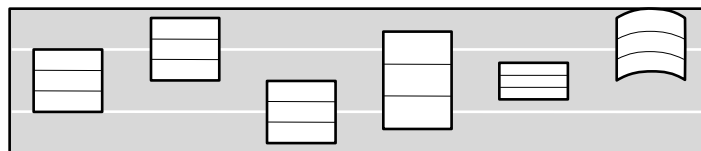
- ⋈ Stiff lips
- ⋈ Stiff jaw
- ⊙ Labialisation (eg in pouting)
- ⊙ Dorsal backing (eg in disgust)

- ~ Nasalisation (eg in boldness)
- ⋈ Denasalisation (eg in a cold)
- ⋈ Dialectal faucalisation
- ⋈ Dialectal pharyngealisation

PHONATORY QUALITY

- △ Whisper
- ⋈ Breathy or murmur voice
- ⋈ Whispy voice
- ⋈ Laryngealised or creaky voice (eg in sleepiness)
- ⋈ False voice or falsetto
- ⋈ Tense voice
- ⋈ Harsh voice
- ⋈ Bright voice
- ⋈ Trembling voice
- ⋈ Raised-larynx voice (eg in arrogance)
- ⋈ Lowered-larynx voice (eg in laziness)
- ⋈ Singing

PARAPHONIC PITCH MOVEMENT



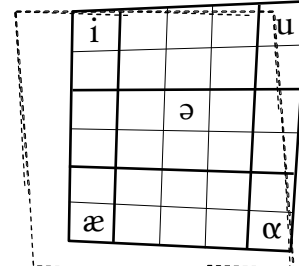
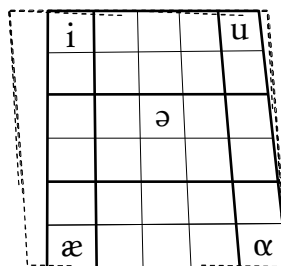
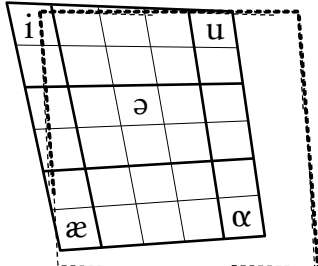
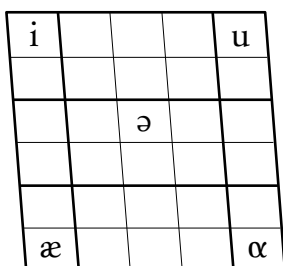
- ⋈ Normal
- ⋈ Raising or global rise
(eg in astonishment, aggressiveness or asking in kindness)
- ⋈ Lowering or global fall (eg in sadness)
- ⋈ Expansion (eg in cheerfulness)
- ⋈ Compression (eg in sleepiness)
- ⋈ Raised peaking

LABIAL POSITIONS

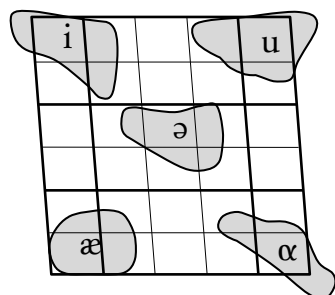
- ⋈ Rounded (eg in pouting)
- ⋈ Unrounded (eg in a smile)

ARTICULATORY TONGUE SETTINGS

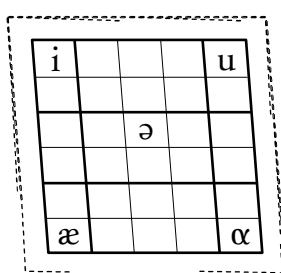
- ⋈ Normal or laminal
- ⋈ Predorsal
- ⋈ Middorsal
- ⋈ Postdorsal



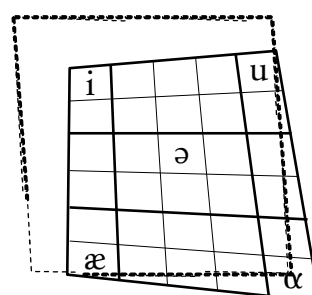
Combined areas of actual range



Restricted

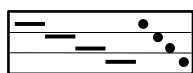


Radical

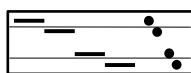


TONALITY STRUCTURE

- ⋈ Expansion of middle band and compression of the other two (esp in Black speech)



Normal bands



Black Bands



Re-normalised bands

canIPA CONTOIDS

PLACE →	FRONT					BACK					LARYNGEAL	
	BILABIAL	LABIO-DENTAL	DENTAL	ALVEOLAR	POST-ALVEOLAR	POSTALVEO-DORSAL	MEDIAN		UVULAR	PHARYN-GEAL	LARYNGEAL	
↓ MANNER							PALATAL	VELAR				
NASAL	m	ɱ	(n)	n	ɳ	ɲ	ɲ	ŋ	ɴ			
STOP	p b		t d	ʈ ɖ	ʈ ɖ		c ɟ	k ɡ	q ɢ			ʔ
ungrooved STOPSTRICTIVE grooved		pf					kɕ ɡɺ					
			ts dz			tʃ dʒ						
ungrooved CONSTRUCTIVE grooved		f v	θ ð				ç ʝ	x ɣ	χ ʁ	ħ		
			s z	ʃ ʒ	ʂ ʐ	ʃ ʒ						
APPROXIMANT rounded	ɸ β	ʋ	ʋ̹ ɖ̹	ɹ			ɸ j	ɸ ɯ	ɤ ʁ	ɕ	h	ɦ
					ɻ	ɻ	ɸ ɯ	ɸ w				
TRILL	B			r					R			
TAP		ʋ		ɾ								
FLAP		ɖ			ɻ							
LATERAL constrictive			(l)	l	ɭ	ɭ	ʎ	ʎ				
				ɭ ɭ̥								

offIPA CONSONANTS (PULMONIC)

PLACE →	LABIAL		CORONAL				DORSAL			RADICAL	LARYNGEAL	
	BILABIAL	LABIO-DENTAL	DENTAL	ALVEOLAR	RETROFLEX	POST-ALVEOLAR	PALATAL	VELAR	UVULAR	PHARYN-GEAL	GLOTTAL	
↓ MANNER												
NASAL	m	ɱ	(n)	n	ɳ	(ɳ)	ɲ	ŋ	ɴ			
PLOSIVE	p b		t d	ʈ ɖ	ʈ ɖ		c ɟ	k ɡ	q ɢ			ʔ
non-sibilant AFFRICATE sibilant		pf					c ɟ					
			ts dz			tʃ dʒ						
non-sibilant FRICATIVE sibilant	ɸ β	f v	θ ð				ç ʝ	x ɣ	χ ʁ	ħ ʕ	h	ɦ
			s z	ʃ ʒ	ʂ ʐ	ʃ ʒ						
APPROXIMANT labialised		ʋ	ʋ̹ ɖ̹	ɹ			ɸ j	ɸ ɯ	ɤ			
					ɻ	(ɻ)	ɸ ɯ	ɸ w				
TRILL	B			r					R			
TAP or FLAP		ʋ		ɾ	ɻ							
LATERAL APPROXIMANT fricative			(l)	l	ɭ	(ʎ)	ʎ	ʎ				
				ɭ ɭ̥								

Where symbols appear in pairs, the one to the left represents a voiceless consonant, the right a modally voiced consonant, except for murmured **ɦ**. Shaded areas denote articulations judged to be impossible. Tie bars are elided for legibility. Light grey letters are unofficial extensions of the IPA.

$canIPA$ MEDIAN CONTOIDS

	VOICING	LAMINO-PREALPATAL	LAMINO-PALATAL	Postpalatal	Prevelar	Provelar	VELAR	LAMINO-PREALPATAL	LAMINO-PALATAL	Postpalatal	Prevelar	Provelar	VELAR	Uvularised velar
CONSTRUCTIVE (X, ʃ)	-		ç	ʃ	ʃ̥		χ		ç̤		ʃ̤		χ̤	
	+		ɟ	ʝ	ʝ̥		ʁ		ɟ̤		ʝ̤		ʁ̤	
Semi-CONSTRUCTIVE (x, ʂ)	-		ɸ	ɸ̥	ɸ̥		ɸ̥		ɸ̤	ɸ̤	ɸ̤	ɸ̤	ɸ̤	
	+		ɸ̥	ɸ̥	ɸ̥		ɸ̥		ɸ̤	ɸ̤	ɸ̤	ɸ̤	ɸ̤	
APPROXIMANT (ɹ, ɻ)	+	ɹ	ɹ̥	ɹ̥	ɹ̥	ɹ̥	ɹ̥	ɹ̥	ɹ̥	ɹ̥	ɹ̥	ɹ̥	ɹ̥	ɹ̥
	-	ɹ̥	ɹ̥	ɹ̥	ɹ̥	ɹ̥	ɹ̥	ɹ̥	ɹ̥	ɹ̥	ɹ̥	ɹ̥	ɹ̥	ɹ̥
Semi-APPROXIMANT (ɹ̥, ɹ̥)	-		ɹ̥	ɹ̥	ɹ̥	ɹ̥	ɹ̥		ɹ̥	ɹ̥	ɹ̥	ɹ̥	ɹ̥	
	+		ɹ̥	ɹ̥	ɹ̥	ɹ̥	ɹ̥		ɹ̥	ɹ̥	ɹ̥	ɹ̥	ɹ̥	
Semilateral (ɭ)	+	ɭ	ɭ̥	ɭ̥	ɭ̥	ɭ̥	ɭ̥		ɭ̥	ɭ̥	ɭ̥	ɭ̥	ɭ̥	
	-		ɭ̥	ɭ̥	ɭ̥	ɭ̥	ɭ̥		ɭ̥	ɭ̥	ɭ̥	ɭ̥	ɭ̥	

Unrounded
Rounded

High vocoids
i ɪ ɨ ʉ (III)
ɤ ʏ ʊ ɯ u

☐ Hyperphonic
☐ Canonical articulation in *offIPA*

*can*IPA VOCOIDS

	Front	Near-front	Central	Near-back	Back
A	ɪ	ɪ̟	ɨ	ɯ	ɯ̟
B	I	ɪ̟	ɨ	ɯ	ɯ̟
C	e	ɛ̟	ə	ɤ	(ɤ̟)
D	E	ɛ̟	ɜ	ɤ	(ɤ̟)
E	ɛ	ɛ̟	ɐ	ɤ	ɤ̟
F	æ	æ̟	ɐ	ɤ	ɤ̟

	Front	Front-central	Central	Back-central	Back
High	ɪ	ɪ̟	ɨ	ɯ	ɯ̟
Lower-high	ɪ̟	ɪ̟̟	ɨ̟	ɯ̟	ɯ̟̟
Higher-mid	(ɛ̟)	ɛ̟̟	ɜ̟	ɤ̟	ɤ̟̟
Lower-mid	(ɛ̟̟)	ɛ̟̟̟	ɜ̟̟	ɤ̟̟	ɤ̟̟̟
Higher-low	(ɛ̟̟̟)	ɛ̟̟̟̟	ɜ̟̟̟	ɤ̟̟̟	ɤ̟̟̟̟
Low	(ɛ̟̟̟̟)	ɛ̟̟̟̟̟	ɜ̟̟̟̟	ɤ̟̟̟̟	ɤ̟̟̟̟̟

*off*IPA VOWELS

i		ɨ	ɯ		y	ɥ		u	Close off
ɪ					ʏ			ʊ	
e	ɘ	ə	ɤ		ø	ɵ		o	Close-mid off
		ɜ				ɞ			
ɛ		ɐ	ʌ		œ			ɔ	Open-mid off
æ		a	ɑ		œ̃			ɔ̃	Open off

Unrounded

Spread

Neutral

Neutral

Neutral

Neutral

Neutral

Rounded

Vertically rounded

Rounded

Vertically rounded

Rounded or Vertically rounded

Rounded

The eight vocoids in brackets are potentially producible but yet to be found distinctively possessed in any language.

可納國際音標輔音音素

發音部位 →	前音					後音					喉音	
	雙唇音	唇齒音	齒音	齶音	齶後音	齶後舌背音	央音		小舌音	咽壁音	喉音	
							硬顎音	軟顎音				
↓ 發音方法												
鼻音	m	ɱ	(n)	n	ɳ	ɲ	ɲ	ŋ	ɴ			
閉音	p b		t d	ʈ ɖ	ʈ ɖ		c ɟ	k ɡ	q ɢ			ʔ
縫音 閉束音 槽音		pf					kɕ ɡɺ					
			ts dz			tʃ dʒ						
縫音 束音 槽音		f v	θ ð				ç ʝ	x ɣ	χ ʁ	ħ		
			s z	ʃ ʒ	ʂ ʐ	ʃ ʒ						
近音 圓唇	ɸ β	ʋ	ʊ ɔ̥	ɹ			ɸ j	ɸ ɯ	ɤ ʁ	ɕ	h	ɦ
					ɻ	ɹ	ɸ ɯ	ɸ w				
顫音	B			r					R			
閃音		ɹ		ɹ								
彈音		ɹ			ɻ							
邊音			(l)	l	ɭ	ɭ	ʎ	ʎ				
邊束音				ɭ	ɭ							

官制國際音標輔音（肺部氣流音）

發音部位 →	唇音		舌冠音				舌背音			舌根音	喉音	
	雙唇音	唇齒音	齒音	齶音	捲舌音	齶後音	硬顎音	軟顎音	小舌音	咽壁音	聲門音	
↓ 發音方法												
鼻音				n		(ɲ)	ɲ	ŋ	ɴ			
破音	p b		t d	ʈ ɖ	ʈ ɖ		c ɟ	k ɡ	q ɢ			ʔ
呼音 附擦音 嗽音		pf					c ɟ					
			ts dz			tʃ dʒ						
呼音 擦音 嗽音	ɸ β	f v	θ ð				ç ʝ	x ɣ	χ ʁ	ħ ɕ	h	ɦ
			s z	s z	ʂ ʐ	ʃ ʒ						
近音 唇化		ʋ	ʊ ɔ̥	ɹ			ɸ j	ɸ ɯ	ɤ			
					ɻ	(ɹ)	ɸ ɯ	ɸ w				
顫音	B			r					R			
閃音或彈音		ɹ		ɹ	ɻ							
邊近音			(l)	l	ɭ	(ʎ)	ʎ	L				
邊擦音				ɭ	ɭ							

除濁送氣音 ɦ 外，成對出現的符號，左為清音，右為常態濁音。灰色欄位代表已判定為不可能的發音；空白欄位代表有可能的發音，惟目前尚未發現有語言將之收為音位。為清晰起見，上表省略連音符。灰色字體代表非標準擴充符號。

[illegible]

超嚴音素
於官制國際音標中收為標準發音

可納國際音標元音音素

	前 (官)	次前 (官)	央 (官)	次後 (官)	後 (官)	
A	ĩ	İ	ĩ	ʷ	(ʷ)	高
B	I	ɪ	ɪ	ʷ	(ʷ)	半高
C	e	ə	ə	ɣ	(X)	中高
D	E	ɛ	ɜ	ɣ	(X)	中低
E	ɛ	ɛ	ɐ	ʌ	ʌ	半低
F	æ	A	a	ɑ	ɑ	低
	0	1	2	3	4	

	前	央前	央	央後	後	
	ʏ	y	ɤ	ɯ	u	高
	ɿ	ʏ	ɤ	ɯ	u	半高
	(ø)	ø	ə	ɐ	o	中高
	(ɔ)	ɔ	ɜ	ɐ	o	中低
	(œ)	œ	ə	ɐ	ɔ	半低
	(ɛ)	ɛ	ɜ	ɐ	ɔ	低
	5	6	7	8	9	

} 開

} 中

} 開

官制國際音標元音

i		ɨ	ɯ						
ɪ									
e	ə	ə	ɤ						
		ɜ							
ɛ		ɐ	ʌ						
æ		a	ɑ						

	y	ɥ		u	閉 (官)
	ɣ			ʊ	
	ø	ɵ		o	半閉 (官)
		ɤ			
	œ			ɔ	半閉 (官)
	œ̃			ɔ̃	開 (官)

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非圓唇

不圓不展 不圓不展 不圓不展 不圓不展

展唇

唇或垂直圓唇

圖唇
圖唇或垂直圖唇
圖唇

括號內的八個元音音素均可發音，惟目前尚未發現有語言將之收為音位。