# THE INTERNATIONAL PHONETIC ALPHABET (revised to 2020)

## CONSONANTS (PULMONIC)

	Bila	abial	Labio	dental	Der	ntal	Alve	olar	Postal	veolar	Retr	oflex	Pal	atal	Ve	elar	Uv	ular	Phary	ngeal	Glo	ttal
Plosive	р	b					$\overline{\mathbf{t}}$	$\overline{\mathrm{d}}$			t	d	С	J	k	g	q	G			7	
Nasal		m		m				n				η		n		ŋ		N				
Trill		В						r										$\mathbf{R}$				
Tap or Flap				V				ſ				τ										
Fricative	ф	β	f	v	θ	ð	S	$\mathbf{Z}$	ſ	3	Ş	Z,	ç	j	X	γ	χ	R	ħ	?	h	ĥ
Lateral fricative							ł	ढ़ॖ														
Approximant				υ				J				J		j		щ						
Lateral approximant								1				l		Λ		L						

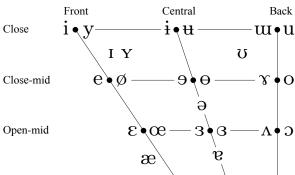
Symbols to the right in a cell are voiced, to the left are voiceless. Shaded areas denote articulations judged impossible.

#### CONSONANTS (NON-PULMONIC)

Clicks	Voiced implosives	Ejectives
O Bilabial	6 Bilabial	9 Examples:
Dental	d Dental/alveolar	p' Bilabial
! (Post)alveolar	f Palatal	t' Dental/alveolar
+ Palatoalveolar	g Velar	k' Velar
Alveolar lateral	<b>G</b> Uvular	S' Alveolar fricative

## VOWELS

Close



a

↑ Upstep

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

## OTHER SYMBOLS

 $\mathbf{M}$  Voiceless labial-velar fricative

 ${f W}$  Voiced labial-velar approximant

U Voiced labial-palatal approximant

H Voiceless epiglottal fricative

 $\mathbf{r}$  Voiced epiglottal fricative

 $\mathbf{2}$  Epiglottal plosive

C Z Alveolo-palatal fricatives

J Voiced alveolar lateral flap

Simultaneous and X

Affricates and double articulations

can be represented by two symbols joined by a tie bar if necessary.

Open

#### DIACRITICS

0	Voiceless	ņç	1		Breathy voiced	ÿ	ä	]	Dental	ţ	ď
-	Voiced	şţ		~	Creaky voiced	ğ	ą		Apical	t	d
h	Aspirated	th c	lh	~	Linguolabial	ţ	$\tilde{\mathbf{q}}$	-	Laminal	t	$\mathbf{d}$
,	More rounded	Ş		w	Labialized	$t^{\mathbf{w}}$	$d^{\mathbf{w}}$	~	Nasalized		ẽ
	Less rounded	ç		j	Palatalized	$\mathrm{t}^{\mathrm{j}}$	$d^{j}$	n	Nasal release		$d^n$
+	Advanced	ų		γ	Velarized	$\mathbf{t}^{\mathbf{y}}$	$\mathrm{d}^{\mathrm{g}}$	1	Lateral release		$d^{l}$
_	Retracted	e		ſ	Pharyngealized	$\mathrm{t}^{\mathrm{r}}$	$\mathrm{d}^{\varsigma}$	٦	No audible relea	se	d٦
	Centralized	ë		~	Velarized or phary	ngeali	zed	ł			
×	Mid-centralized	ě		_	Raised	ę	( <u>J</u> =	voic	ed alveolar fricativ	ve)	
	Syllabic	ņ		т	Lowered	ę	$(\beta = 1)$	voic	ed bilabial approx	imant	:)
	Non-syllabic	ĕ		-	Advanced Tongue	Root	ę				
٦	Rhoticity	<b>გ</b> მ	r	F	Retracted Tongue	Root	ę				

Some diacritics may be placed above a symbol with a descender, e.g.  $\check{\Pi}$ 

# SUPRASEGMENTALS

301	KASEGMENTA	LS
ı	Primary stress	,foʊnə tı∫ən
1	Secondary stres	
X	Long	ex
•	Half-long	e•
J	Extra-short	$reve{\mathbf{e}}$
	Minor (foot) gr	oup
İ	Major (intonation	on) group
•	Syllable break	лі.ækt
$\overline{}$	Linking (absend	ce of a break)
	TONES AND V	VORD ACCENTS CONTOUR
ő	or T Extra	<b>č</b> or ∕ Rising
é	High	$\hat{\mathrm{e}}$ $\bigvee$ Falling
ē	- Mid	ĕ 1 High rising
è	Low	è √ Low rising
ë		è √ Rising- falling
<b>†</b>	Downstep	Global rise

Global fall