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https://www.internationalphoneticassociation.org/IPAcharts/IPA_chart_orig/pdfs/IPA_Kiel_2020_full.p

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THE INTERNATIONAL PHONETIC ALPHABET (revised to 2020)

CONSONANTS (PULMONIC) Bilabial Labiodental Dental Alveolar Postalveolar Retroflex Palatal Uvular Pharyngeal Glottal $p \overline{b}$ t d þ c k g q G 3 Plosive J Nasal m N ŋ η n ŋ Trill В R Tap or Flap ſ r φβ f v $\theta \delta \mid s z$ ħ S h fi Fricative X Λ X R 3 Ş Z, çj ß Approximant υ щ Lateral approximant 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) VOWELS Front Central Back Clicks Voiced implosives Eiectives **w**•u O Bilabial 6 Bilabial Examples: υ ΙY Dental d Dental/alveolar p' Bilabial Close-mid e • ø **γ • 0** f Palatal t' Dental/alveolar (Post)alveolar è k' Velar g Velar + Palatoalveolar Open-mid ε·œ 3 3 $C ilde{\Lambda}$ B æ OTHER SYMBOLS a · Œ Open M Voiceless labial-velar fricative Ç Z Alveolo-palatal fricatives Where symbols appear in pairs, the one to the right represents a rounded vowel. \mathbf{W} Voiced labial-velar approximant J Voiced alveolar lateral flap U Voiced labial-palatal approximant f Simultaneous \int and XSUPRASEGMENTALS H Voiceless epiglottal fricative Primary stress founə tı∫ən Affricates and double articulations Yoiced epiglottal fricative can be represented by two symbols ţs Secondary stress joined by a tie bar if necessary. ei P Epiglottal plosive ! Long e' Half-long DIACRITICS ĕ Extra-short ņ₫ $t \overline{d}$ Voiceless Breathy voiced a Dental Minor (foot) group Voiced ţ a ţ d ŝ Creaky voiced Apical Major (intonation) group h Aspirated $t^h \; d^h$ ď Linguolabial Laminal d лi.ækt Syllable break W Labialized $t^w \ d^w \\$ Ç Linking (absence of a break) n Nasal release dn j Palatalized $\mathbf{d}^{\mathbf{j}}$ Less rounded TONES AND WORD ACCENTS l Lateral release $\overline{d^{l}}$ Y Velarized d^{γ} Advanced LEVEL CONTOUR ų or 7 Extra ď ě Retracted Υ Pharyngealized d۶ No audible release or / Rising e · Centralized é ê V Falling ☐ High ë Velarized or pharyngealized 1 High rising ē ┥ Mid ĕ × Mid-centralized ě Raised Ļ = voiced alveolar fricative) → Low rising ☐ Low ĕ Syllabic ņ = voiced bilabial approximant) è J Extra ê A Rising-falling Non-syllabic Advanced Tongue Root ✓ Global rise ■ Rhoticity Retracted Tongue Root & ✓ Global fall ð a Upstep Some diacritics may be placed above a symbol with a descender, e.g. $\mathring{\eta}$ CONSONANTS **VOWELS**

ППП

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