

INTERNATIONAL PHONETIC ALPHABET CHART: CONSONANTS

Linguistic Description	Example	Lower Articulator	Upper Articulator
STOPS (obstruents, plosives) bilabial: /b/ (voiced) /p/ (unvoiced) alveolar: /d/ (voiced) /t/ (unvoiced) velar: /g/ (voiced) /k/ (unvoiced) [Stops involve total closure of air passage]	bill pill dill till gill kill	lower lip lower lip blade blade back of tongue back of tongue	upper lip upper lip alveolar ridge alveolar ridge velum velum
AFFRICATIVES alveopalatal: /tʃ/ or /dʒ/ (voiced) /tʃ/ or /tʃ/ (unvoiced) [Affricatives involve a stop plus a movement through a fricative position.]	Jill chill	blade blade	far front of palate far front of palate
FRICATIVES (also called SPIRANTS) labiodental: /v/ (voiced) /f/ (unvoiced) dental: /ð/ (voiced) /θ/ (unvoiced) alveolar: /z/ (voiced) /s/ (unvoiced) alveopalatal: /ʒ/ or /ʒ/ (voiced) /ʃ/ or /ʃ/ (unvoiced) palatal: /ç/ (unvoiced) velar: /x/ (unvoiced) glottal: /h/ (unvoiced) glottal: /?/ (voiced) [Fricatives involve constricting air passage.]	villa fill clothe / thy cloth / thigh zeal sill rouge, azure shall German <i>ich</i> German <i>ach</i> hill bottle [air gulp between t and l.]	lower lip lower lip blade blade front of tongue front of tongue front of tongue front of tongue front of tongue back of tongue vocal cords vocal cords	upper teeth upper teeth upper teeth upper teeth alveolar ridge alveolar ridge far front of palate far front of palate palate velum vocal cords vocal cords
NASALS (nasal resonants) bilabial: /m/ (voiced) alveolar: /n/ (voiced) velar: /ŋ/ (voiced) [Nasals involve complete closure of the oral passage with the nasal passage open.]	mill nill tang	lower lip blade back of tongue	upper lip alveolar ridge velum
LATERAL RESONANT (liquid) alveolar: /l/ (voiced) [Air is expelled through passages on the sides of the tongue.]	lull	blade	alveolar ridge
MEDIAL RESONANTS (semi-vowels) alveopalatal: /r/ (voiced) [r/ represents a trilled r as in Spanish <i>perro</i> or Scottish <i>laird</i>] palatal glide: /y/ or /j/ (voiced) velar glide: /w/ (voiced) velar glide: /ʍ/ (unvoiced)	rill laird yet will witch	front of tongue front of tongue back of tongue back of tongue back of tongue	far front of palate palate velum velum velum