

# Classification of Symbols: Consonants



<b>Voicing</b>	
<b>Voiced.</b> A voiced consonant engages the voice and can be sung. They are in bold below.	
<b>Voiceless.</b> A voiceless consonant does not engage the voice and can only be whispered.	
<b>Points of Articulation</b>	<b>English</b>
<b>Bilabial</b> [b <sup>h</sup> aɪ'ɛɪb <sup>h</sup> ɪəʊ] Refers to the lips	<b>[b<sup>h</sup>] [p<sup>h</sup>] [m] [w]</b>
<b>Labiodental</b> [ɛɪb <sup>h</sup> ɪə'd <sup>h</sup> ɛnt <sup>h</sup> ɪəʊ] Involves the lower lip and the upper front teeth	<b>[v] [f]</b>
<b>Dental</b> ['d <sup>h</sup> ɛnt <sup>h</sup> ɪəʊ] Involves the tip of the tongue and the back of the front teeth	<b>[ð] [θ]</b>
<b>Alveolar</b> [ʔæɪ'vɪəʊ] Involves the tip of the tongue and the ridge behind the upper teeth	<b>[d<sup>h</sup>] [t<sup>h</sup>] [z] [s]</b> <b>[ʔ] [n] [ɹ]</b>
<b>Prepalatal</b> [p <sup>h</sup> ɪ'p <sup>h</sup> æɪt <sup>h</sup> ɪəʊ] Involves the tip of tongue and the front of the hard palate	<b>[ʒ] [ʃ] [dʒ] [tʃ]</b>
<b>Palatal</b> ['p <sup>h</sup> æɪt <sup>h</sup> ɪəʊ] Involves a front arch of the tongue and the hard palate	<b>[j]</b>
<b>Velar</b> ['vɪəʊ] Involves the back of the tongue and the soft palate	<b>[g<sup>h</sup>] [k<sup>h</sup>] [ŋ]</b>
<b>Glottal</b> ['g <sup>h</sup> ɪəʊ] Involves the air flow and the opening between the vocal cords	<b>[ʔ] [h]</b>

<b>Manner of Articulation</b>	<b>English</b>
<b>Plosive</b> ['p <sup>h</sup> lɒsɪv] <b>Stop</b> [st <sup>h</sup> ɒp <sup>h</sup> ] A momentary closure of the air flow passage	<b>[b<sup>h</sup>] [p<sup>h</sup>] [d<sup>h</sup>] [t<sup>h</sup>]</b> <b>[g<sup>h</sup>] [k<sup>h</sup>] [ʔ]</b>
<b>Fricative</b> ['frɪk <sup>h</sup> ɪtɪv] Produced by directing the air flow past a set of articulators	<b>[v] [f] [z] [s]</b> <b>[ʒ] [ʃ] [h] [ð] [θ]</b>
<b>Affricate</b> ['ʔæfrɪk <sup>h</sup> ɪtɪv] A stop that is followed by a fricative	<b>[dʒ] [tʃ]</b>
<b>Nasal</b> ['neɪzəl] Produced by directing vocalized tone through the nasal passages	<b>[m] [n] [ŋ]</b>
<b>Lateral</b> ['læɪt <sup>h</sup> ɪəʊ] Produced by directing vocalized tone over the sides of the tongue	<b>[l]</b>
<b>Glide</b> [g <sup>h</sup> ɪəɪdɪv] Produced by directing the tone past a set of articulators without friction	<b>[w] [j]</b>
<b>Retroflex</b> ['rɛt <sup>h</sup> ɪəʊfrɛk <sup>h</sup> ɪv] Produced with tongue tip curled up	<b>[ɹ]</b>