

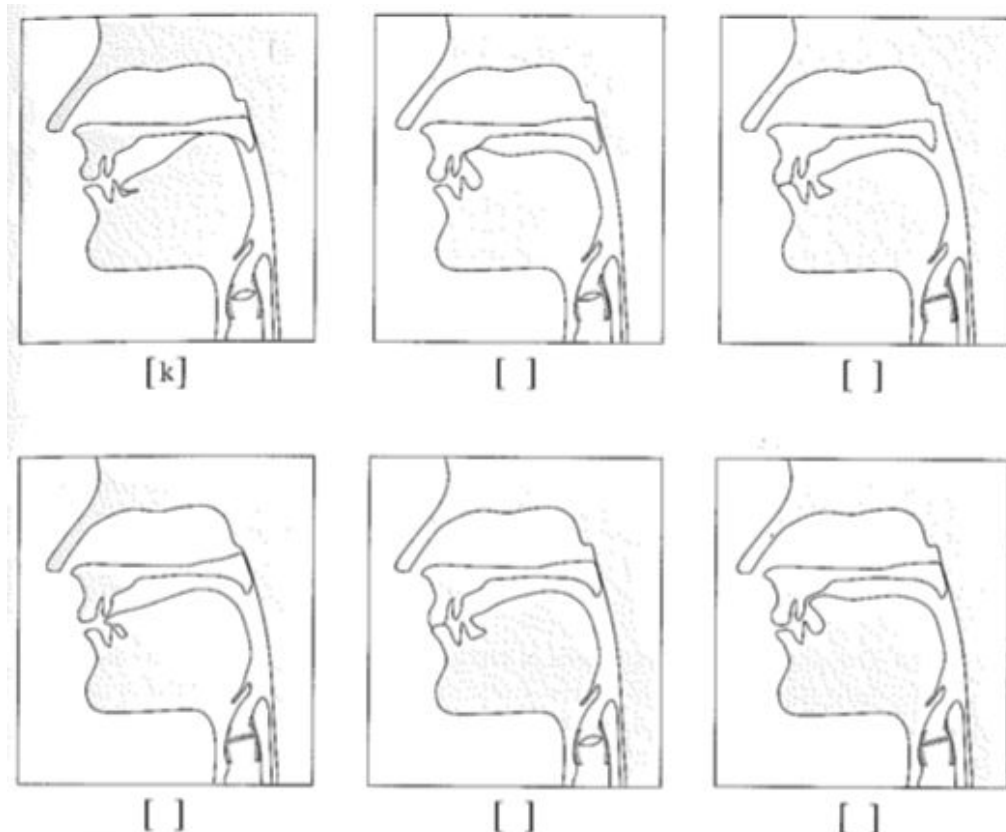
Week 5: Consonants

Practice Problems

(1) For each of the following words, determine whether the first and last sounds are voiced.

- (a) thought
- (b) view
- (c) silk
- (d) judge
- (e) buns

(2) For each drawing, write the only consonant sound of English that could be produced by the vocal tract positioned shown. Take into account voicing, manner, and place of articulation. Note that voicing is shown by two wavy or bumpy lines (representing vocal fold vibration) where the larynx would be, whereas voiceless sounds are represented by two lines shaped like an ellipse at the larynx level, indicating an open glottis. Also note whether the air passage to the nasal cavity is open or closed (i.e., velum is lowered or raised). The first one is done for you.



(3) Explain why your vocal folds don't vibrate when you whisper.

(4) Write the phonetic symbol representing each of the following sounds (don't forget to use square brackets). The last one is given as an example.

- (a) voiceless post-alveolar affricate
 - (b) voiced velar nasal
 - (c) voiced glottal fricative
 - (d) voiced labiodental fricative
 - (e) voiced interdental fricative
 - (f) voiced post-alveolar fricative
 - (g) voiced alveolar lateral liquid
 - (h) voiced palatal glide - [j]
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(5) Write the three-part articulatory descriptions for the consonant sounds represented by the following symbols. The last one is given as an example.

- (a) [f]
 - (b) [z]
 - (c) [n]
 - (d) [ŋ]
 - (e) [ʃ]
 - (f) [ɹ]
 - (g) [ʒ]
 - (h) [tʃ]
 - (i) [g]
 - (j) [ʔ]
 - (k) [j] - **voiced palatal glide**
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(6) For each group of sounds, identify the segment that differs in place of articulation from the other three.

- (a) [s], [n], [ɹ], [v]
- (b) [k], [ŋ], [ŋ], [g]
- (c) [m], [p], [l], [w]
- (d) [ʃ], [dʒ], [d], [tʃ]
- (e) [t], [n], [d], [k]

- (7) Based on the articulatory description of consonants, of the two pictures below, which do you think could be an instance of [t] and which an instance of [s]? How do you know? What other sounds could make the pattern seen in (a) and (b)?

