

**Articulatory phonetics: Basics for Japanese****Reading: Hayes (2009), chapter 1**

Terms to learn from the reading:

- (1) Parts of the vocal tract:
  - (a) alveolar ridge
  - (b) hard palate
  - (c) velum
  - (d) velar port
  - (e) uvula
  
- (2) Terms for classifying vowels (§1.5):
  - (a) rounding
    - (b) rounded
    - (c) unrounded
  
  - (d) height
    - (e) high
    - (f) mid
    - (g) low
  
  - (h) backness
    - (i) front
    - (j) central
    - (k) back
  
  - (l) diphthong
  
- (3) Terms for classifying consonants (§1.4):
  - (a) consonant
  - (b) vowel
  
  - (c) voicing
    - (d) voiced
    - (e) voiceless

- (f) manner of articulation
  - (g) stop
  - (h) fricative
  - (i) affricate
  - (j) nasal
  - (k) tap/flap
  - (l) approximant
  - (m) liquid
  - (n) glide
  
- (o) place of articulation
  - (p) bilabial
  - (q) labiodental
  - (r) dental
  - (s) alveolar
  - (t) palato-alveolar (aka post-alveolar)
  - (u) velar
  - (v) uvular
  - (w) glottal

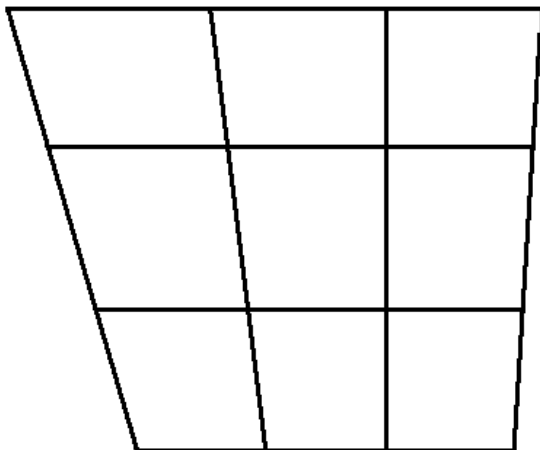
<p><b>For class discussion</b> (<i>but think about these questions as you read</i>)</p>
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## I. Phonetics vs. orthography

- (4) Phonetics: The study of the more-or-less physical aspects of speech sounds
  - how speech sounds are articulated
  - their acoustic characteristics
  - how they are perceived
  
- (5) Why we need phonetic transcription (a phonetic alphabet) to represent speech sounds
  - (a) The spelling system of a language very rarely represents the sounds of the spoken language in detail (how do you spell the name of the capital of Japan?)
  - (b) Without a standard system, it is very hard to explain to speakers of other languages—or even other dialects—what speech sound you are talking about

## II. Vowel properties; basic vowels of Japanese

- (6) Can you draw and fill in a vowel chart for Standard Japanese?
- Sound files are available on Sakai, in *Resources > Data sets > 1. Phonetics*
- Vowel chart for Japanese:



## III. Consonant properties; basic consonants of Japanese

- (7) Fit the following Japanese phonetic consonant categories into the chart; put voiceless sounds in the left half of a cell, and voiced sounds in the right half
- b ɸ ç d dz f g h k m n ŋ ɳ p r s t tɕ ts w y z

		bilabial	alveolar	alveo-palatal	palatal	velar	uvular	glottal
(oral) stops								
fricatives								
affricates								
approximants	liquids							
	glides							
nasal (stop)s								