Pitch accent in Japanese

- I. Pitch accent basics
- (1) **Pitch accent** (as realized in most dialects of Japanese):
 A fall from high pitch (H) to low pitch (L) within a word or phrase
- (2) Pitch accent patterns vary widely across dialects of Japanese, especially with respect to these questions:
 - (a) Is there a distinction between accented and unaccented words?
 - (b) What positions in a word can a pitch accent occupy, in principle?
 - (c) Where does the pitch accent (if any) occur in a particular word?
 - (d) Once we know where the pitch accent (if any) occurs in a word, is it possible to systematically predict whether the rest of the word will have H or L pitch?
- II. Pitch accent in the Tokyo dialect
- (3) Examples (sound files on Canvas, in *Modules > Sound files pitch accent*)
 - (a) [murásaki] 'purple'
- abrupt pitch fall
- L H L L tone shape
- (b) [momoiro] 'peach (color)'
- no abrupt pitch fall
- L H H H shape
- (c) [iró] 'color'
- can't hear the pitch fall nothing follows the accent!
- (c')[iró-wa] 'color-topic'
- if we listened to this, we would hear the pitch fall
- LH(+L) shape when [-wa] is added
- (4) More examples, with topic marker

LHHH L LL LHL LHHL [sa.kw.ra (-wa)] [ka.ra.sw (-wa)] [ko.ko.ro (-wa)] [o.to.ko (-wa)] 'cherry tree' 'crow' 'heart' 'man'

- (5) Details of accent patterns in the Tokyo dialect answering the questions in (2)
 - (a) There is a distinction between accented and unaccented words unpredictable
 - (b) (more about this question in a later discussion)
 - (c) Speakers need to learn for each word which position has the accent unpredictable
 - Full disclosure: Accent location in *nouns* is fairly free in the Tokyo dialect, but *verbs* and *adjectives* are more restricted
 - (d) Other tones in the word:
- All positions after the accented position are L
- All positions before the accented position are H
- The very first tone in a *phrase* is often lowered to L

- (6) How does the phonological grammar produce the H/L tone patterns in the Tokyo dialect?
 - (a) **Whether** a word is accented, and if so **where** the accent is located, are specified in lexical entries (the "mental dictionary")
 - This is because *unpredictable* information must be *memorized* and *stored*
 - (b) H and L tones are assigned to positions in the word by the phonological grammar
 - This is because the pattern of H and L tones is *predictable* once we know where the accent is
- (7) Algorithm for tone assignment in the Tokyo dialect (traditional analysis)
 - i. If there is an accent, assign H to the accented position and L to the following position, if any (see later discussion for more on "position")
 - ii. If the phrase is unaccented, assign H to the final position (note that no L follows)
 - iii. Spread H leftward to any toneless positions
 - iv. Spread L rightward to any toneless positions
 - v. Optional: Change the first tone in a phrase to L, unless that position is accented

For an advanced, more phonetically accurate view of pitch-accent assignment in Tokyo, see:

Pierrehumbert, Janet, & Mary Beckman. 1988. Japanese tone structure. Cambridge, MA: MIT Press.

Venditti, Jennifer. 2005. The J_ToBI model of Japanese intonation. In Sun-Ah Jun (ed.), *Prosodic typology*, 172–200. Oxford: Oxford University Press.