Prosodic structure in Japanese, part (II)

- IV. The syllable
- (1) What evidence shows that syllables (σ) are necessary in Japanese?
 - See the examples on the "More about mora structure" data set handout

(2) Algorithm for building syllable (σ) structure

- (a) Syllables dominate (i.e., contain) moras in phonological structure. All moras must be included in some syllable in a well-formed surface representation.
 - A surface representation that does not conform to this requirement is rejected as ungrammatical, unless some phonological rule applies to bring it into conformity
- (b) Moras in Japanese fall into two types, μ_1 and μ_2 , where:
 - μ_1 must be a (C)(j)V mora *i.e.*, must contain at least V
 - μ2 is not a C(j)V mora *i.e.*, C is okay; V is okay; N is okay; but not C(j)V
 - Note that a V mora can be either μ_1 or μ_2
- (c) Moras are associated with syllables as follows:
 - i. Assign all moras a label as μ_1 or μ_2
 - ii. Every instance of μ_1 projects, and associates to, a σ
 - iii. Every μ_2 to the right of a μ_1 associates to the σ of that μ_1
- These steps are carried out in order. This algorithm ensures that all syllables in Japanese have the structure $\mu_1(\mu_2)$.
- (3) Additional points about syllable structure in Japanese
 - (a) When there are two vowels in a row, our model allows either two light syllables ($\mu + \mu$) or one heavy syllable ($\mu\mu$) to be formed what actually happens?
 - A number of factors appear to be relevant, including which vowels are involved and where the pitch accent is located
 - See examples on the "More about mora structure" data set handout
 - (b) It appears that Japanese occasionally tolerates a syllable with *three* moras
 - Loanwords: [toon] 'tone', [tceen] 'chain'
 - Complex words: [nihom-ppoi] 'Japan-like', [toot-ta] 'pass-PAST'