

## Syntactic Agreement as a Disambiguation Task: Evidence from Japanese Adjectives

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### *Ambiguities and Agreement:*

Preminger (2014) defines *Agreement* (or  $\varphi$ -agreement) as morpho-phonologically overt covariance in  $\varphi$ -features (e.g. person, number etc.) between a verb-like element (e.g. a lexical verb, tense etc.) and one or more nominal arguments.

- (1) ha-ncig-im                  dibr-**u**                                  (2) a. I run.    (cf. \*I runs.)  
    the-representative PL spoke-**3PL**                                  b. He runs. (cf. \*He run.)  
    ‘The representatives spoke.’                                  (Preminger 2014: 6)

In (1)/(2),  $\varphi$ -agreement takes place between the subject and T(ense). As a result, the specific  $\varphi$ -morphemes appear on the verbs, which implies that the phonetic form of the verbs is determined through agreement among several possibilities. That is,  $\varphi$ -agreement results in phonological disambiguation. On the other hand, agreement also takes place with phonologically null pronoun *pro*, e.g. in a rich-agreement language like Spanish.

- (3) a. Están    cansadas.                                  b. *The representation of (3a):*  
    be-3PL    tired-F.PL                                  pro Están cansadas  
    ‘They are tired.’    (Holmberg 2005: 536)

Since *pro* inherits the  $\varphi$ -features of T for its identification through agreement, the interpretation is fixed to [3rd person, plural], namely *they* in (3). If no identification occurs, *pro* gets a default (arbitrary) interpretation. In other words, *pro* can intrinsically mean any pronoun but by applying agreement, the meaning is restricted to one of the pronouns, e.g. *they* in (3), which implies that  $\varphi$ -agreement can trigger semantic disambiguation. This presentation focuses on semantic ambiguities observed in Japanese adjectives and demonstrates that those adjectives are disambiguated through agreement both phonologically and semantically.

### *Adjectives in Japanese:*

In Japanese, adjectives are classified into two morphological types. One is so-called canonical adjectives, whose stem the morpheme *-i* attaches to in the prenominal position ( $\rightarrow$ 4). The other is “nominal” adjectives, whose stem the morpheme *-na* attaches to ( $\rightarrow$ 5).

- (4) a. taka(k)-i    biru    b. \*taka(k)-na biru  
    high-I    building (‘a/the high building’)                                  high-NA    building  
(5) a. sizuka-na    heya    b. \*sizuka-i    heya  
    quiet-NA    room (‘a/the quiet room’)                                  quiet-I    room

Furthermore, there are some adjectival stems that allow both morphemes *-i* and *-na* to attach to.

- (6) a. ooki(k)-i/-na    te    b. yawaraka(k)-i/-na    nuno  
    big-I/-NA    hand (‘a/the big hand’)                                  soft-I/-NA    cloth (‘a/the soft cloth’)

Interestingly, a semantic difference has been observed between the *-i* form and the *-na* form: the latter has a more restricted meaning than the former (Sasaki 2002 among others).

- (7) a. watasi-no    ooki(k)-i    ani    b. watasi-no    ooki-na    ani  
    I-Gen    big-I    brother    I-Gen    big-NA    brother  
    ‘my big brother (physically)’    ‘my big brother (physically)’  
    ‘my older elder brother’

Although the data in (7) have been already reported, no explanation was given yet. This work aims to explain how the *i/na*-alternation takes place (i.e. phonological disambiguation) and also



- (15) a. Elsa e un **bon** mudjer. b. Elsa e un **boa** mudjer.  
Elsa COP a good woman Elsa COP a good woman  
(‘Elsa is a good woman.’) (‘Elsa is an attractive woman’) (Baptista 2002: 68)

If agreement takes place, the adjective *bon* changes to *boa*, i.e. the agreement fixes phonological realization of the adjective to *boa*. Also, the semantic range of *good* is narrowed down and limited to *attractive*, which originally belongs to the semantic range of *good*. These data lend further empirical support for our proposal that agreement is a disambiguation task.

**Selected References:**

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