

## Light Verb Constructions and Structural Ambiguity

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### Abstract

Previous analyses of (Korean) Light Verb Constructions (LVCs) have failed to provide objective criteria for defining LVCs. The verb *ha-* is inconsistently regarded as a Light Verb (LV) or as a "heavy verb" depending on its environment. In the face of this problem, I argue, firstly, that all *ha-*sentences should be analyzed as LVCs when the potential Verbal Noun (VN) has at least one of the verbally case-marked phrases as its argument. Secondly, LVCs (neither LVs nor VNs) are classified into two groups based on their structural differences. Thirdly, LVC sentences in general are ambiguous between the structures of these two groups. Many sentences, however, are disambiguated because the VN in each structure has its own special properties. In this approach, the differences of the behavior of the VN in (LVC) *ha-*sentences are attributed to their structural differences rather than to "spuriously" multiplied lexical items.

### I. Introduction

Since Cattell (1984) and Grimshaw & Mester (1988), much attention has been paid to Light Verb Constructions (LVCs), especially those in Japanese and Korean (H-S Han 1988, Miyagawa 1989, H-D Ahn 1991, K Park 1992, etc.). These analyses, however, have failed to provide objective criteria for defining LVCs (and hence "thematically incomplete" Light Verbs (LVs) and accompanying Verbal Nouns (VNs)). In Korean, for example, the verb *ha-* 'to do' and the noun preceding it are inconsistently analyzed as a LV and a VN, respectively, or as a "heavy verb" and a regular noun, respectively, depending on their environment. In general, sentences containing them are treated as LVCs only when the noun is not modified or "moved/extracted", which does not fit with native speakers' intuition.

### II. Previous Analyses: Multiple Lexical Items

Everyone agrees that sentence (1a) represents a LVC, which has an object NP *Bill-#* explicitly as well as a VN phrase *SOKAE(-#)*:

- (1) a. John-i Mary-hanthe Bill-*il* [SOKAE (-*il*)] ha-y<sup>ass</sup>-ta.  
 Nom to Acc introduction Acc do Past Decl  
 'John introduced Bill to Mary.'
- b. \*John-i Mary-hanthe Bill-*il* [caemi iss-n<sup>in</sup> SOKAE(-*il*)] ha-y<sup>ass</sup>-ta.  
 interesting
- c. \*[SOKAE-*il*] John-i Mary-hanthe Bill-*il* ha-y<sup>ass</sup>-ta.

One of the most significant characteristics of sentence (a) is that its VN phrase cannot be modified by prenominals or moved as is shown in (b-c).

There is considerable controversy, however, over the status of the following sentences, where an object NP like *Bill-il* does not appear (explicitly) as a verbally case-marked element.

- (2) a. John-i Mary-hanthe SOKAE (-*il*) ha-y<sup>ass</sup>-ta.  
 Nom to introduction Acc do Past Decl  
 'John introduced (someone) to Mary.'
- b. i) John-i Mary-hanthe [Bill-*il* SOKAE(-*il*)] ha-y<sup>ass</sup>-ta.  
 Gen
- ii) John-i Mary-hanthe [caemi iss-n<sup>in</sup> SOKAE(-*il*)] ha-y<sup>ass</sup>-ta.
- c. [(caemi iss-n<sup>in</sup>) SOKAE-*il*] John-i Mary-hanthe ha-y<sup>ass</sup>-ta.

According to H-D Ahn (1991), sentence (a) is always treated as a LVC if the potential VN (i.e. *SOKAE* here) occurs without the Acc marker *-il*. If the noun occurs with this marker, it is a LVC sentence only when the noun is not modified or moved. K Park (1992) argues that it should be analyzed as a LVC when the noun is not modified or moved, regardless of whether the noun bears the Acc marker or not. S-W Kim (1994) implies that it is not a LVC sentence because "true VNs" cannot be moved or focused. According to M-K Kim's (1994: 108) analysis, it is a "heavy verb" construction "in case there is no deleted object, while it is a LVC if there is a deleted object."

Most scholars argue that the sentences in (2b-c) are not LVC sentences but heavy verb sentences (except M-K Kim (1994) and a few others). That is, the *ha-* here is not regarded as a LV but analyzed as a heavy verb. In these sentences, one or more of the arguments of the potential VN are case-marked nominally (b-i), the VN is modified (b-ii), or the VN is moved/focused (c).

One problem of these analyses is that the noun *SOKAE* and the verb *ha-* should each be treated as two different kinds of lexical items in (1-2): as a VN and a LV in (1a), but as a regular noun and a heavy verb in (2b-c). First of all, it is not convincing at all to argue that two different kinds of *SOKAE* are involved in these sentences. No lay native speakers of Korean would agree with the idea that the *SOKAE* in (1a) and that in (2b-c) are different lexical items. Only those syntacticians who put too much emphasis on the behavioral differences of the potential VN want to posit two different lexical items. It is more awkward if we have to assume that the two

*SOKAE*'s are not the same lexical item in (1a) and (2a). Considering that even arguments can naturally be deleted in Korean depending on the context, the mere presence or absence of the object NP *Bill-#* is not likely to trigger the change of the construction so significantly.

In addition, under previous approaches, we are forced to say that phrases containing VNs cannot be modified or moved (by their own nature of being VNs) and that the "regular nouns under consideration" should always be modified or moved. It would be simply impossible to show that none of these regular nouns can occur without being modified or moved. No other subclasses of the noun (or no other classes) seem to be restricted this manner in their distribution.

A more serious problem is that the verb *ha-* in (2a-c) is still thematically incomplete in that the verbally case-marked *Mary-hanthe* is an argument of *SOKAE* rather than that of *ha-*, just as in (1a). If we want to maintain that some or all of the sentences in (2) are not LVC sentences, we must assume that *Mary-hanthe* is an argument of *ha-* rather than that of *SOKAE*. Then, we have to posit numerous different kinds of heavy *ha-* because we need as many types of it as there are different subcategorization frames of the VNs, which are defined on the basis of the number and type of the arguments that VNs can take. Now we will have the same number of different *ha-*'s as when we do not posit any LVs at all. There will be no advantage of introducing the concept of LVs. Originally we came to posit the dummy LV *ha-* because the arguments of the sentence concerned is determined not by the verb but by another element in the sentence (i.e. the VN), which made it possible to assume just one verb, the LV *ha-*.

### III. A New Analysis: Structural Ambiguity

On the face of the above-mentioned and other related problems, I argue that all *ha-*sentences should be analyzed as LVCs when the potential VN has at least one of the verbally case-marked phrases as its argument (i.e., at least one (NP-)external argument). From this point of view, all the sentences in (1-2) are treated as LVCs because all the sentences have the external argument *Mary-hanthe* as well as their subjects. This new analysis comprises some other major contentions. LVCs (neither LVs nor VNs) are classified into two groups based on their structures (see (8) below) and LVC sentences in general are ambiguous between these two structures.

Before we consider these major contentions, we will examine a set of properties which characterize LVC sentences. Firstly, the VN should have at least one verbally case-marked argument. That is, at least one argument should be realized outside of the VN phrase. Secondly, although the sentential arguments are subcategorized by the VN, the VN itself is subcategorized by the LV *ha-*. Let us examine the following sentences:

- (3) a. *suhak-ɪl KONGPU ha-n-ta*  
 mathematics study do Nonpast Decl '(Someone) studies mathematics.'  
 b. *suhak-ɪl KONGPU-lɪl ha-n-ta*  
 Acc Acc
- (4) a. *sukak-ɪl KONGPU cung*  
 process '(in) the process of studying mathematics'  
 b. \**suhak-ɪl KONGPU-lɪl cung*

From the data in (3) we can see that the VN *KONGPU* can be optionally marked with the Acc marker when the LV *ha-* follows it. However, the VN cannot have the marker when the LV does not follow it as we can see in (4). This difference shows that the existence of the VN is dependent on the LV in (3) but on something else in (4).

Considering the data in (3-4) and that in (5), we can come up with the principle (6), which regulates the distribution of VNs which have external arguments:

- (5) a. *hankuk-i yangtampae-lɪl SUIP-ɪl KAEPANG(-ɪl) ha-yess-ta.*  
 Korea Nom Western tobacco import open Acc Past Decl  
 'Korea opened the tobacco market for the imported tobaccos.'  
 b. *hankuk-i yangtampae-lɪl SUIP-ɪl KAEPANG hu, ...*  
 after

- (6) VNs with external arguments should be licensed by an adjacent lexical item in the clause.

In sentence (3), the VN is licensed by the LV *ha-* because this verb subcategorizes the VN. For such non-LVC examples as (4a) and (5b), we assume that the unit of the VN plus the noun following it is a compound noun. Under this assumption, the VN is licensed by its neighboring element in the compound (or vice versa). Compounds would not be composable if their elements are not compatible with each other. In the sentences of (5), the VN *SUIP* is not licensed by the LV even though it has an external argument. Here the VN is licensed by another VN *KAEPANG* because this VN subcategorizes the former VN. In all these cases, each VN is licensed by an adjacent lexical item in the clause.

In view of such data as in (4a) and (5), we must assume that the VN is responsible not only for the thematics (and subcategorization) but also for the (indirect) case-marking of its dependents (contra J Yoon (1991) and others). The VN *KONGPU* and *KAEPANG* in (4a) and (5b), respectively, are not associated with the LV *ha-* but with a subclass of nouns. The VN *SUIP* in (5) is not associated with the LV *ha-*, either. Hence, we cannot rely on the LV *ha-* even indirectly in accounting for the (thematics/subcategorization and) case-marking in these sentences. We have to rely on the VN directly.

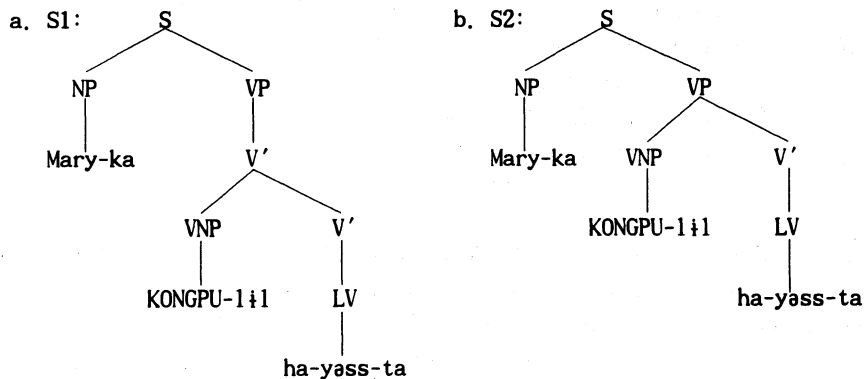
The last characteristic of LVCs to be considered here is that the VN phrase is a non-saturated NP. This non-saturatedness requirement comes from the fact that the VN has its arguments outside of the VN phrase.

- (7) a. [Mary-eke] [yalsimhi kongpu-ha-lako] [komaun CHUNGKO-lil] ha-yæss-ta.  
to hard study Quot thankful advice  
'(Someone) gave Mary a thankful advice that she should study hard.'  
b. \* ... [yalsimhi kongpu-ha-lako] [palo ki CHUNGKO-lil] ha-yæss-ta.  
just that

The grammaticality difference here is due to the status difference of the NP containing the VN: it is non-saturated in (a) but it is saturated in (b). In general demonstratives have the function of closing NPs (i.e., making them saturated).

Turning to the major contentions in this paper, we are assuming that LVCs (neither LVs nor VNs) are classified into two groups based on their structures:  $VP[... , v'[VNP + LV]v']_{VP}$  (S1) and  $VP[... , VNP, LV]_{VP}$  (S2):

- (8) Mary-ka KONGPU-lil ha-yæss-ta.  
Nom study Acc do Past Decl



There does not seem to be significant meaning differences between the two groups of LVCs. Syntactically, however, there are noticeable differences between them. First of all, the position of the VN phrase (VNP) is different in the structures of the two constructions. The VN phrase is in a position which renders it "special" in the former structure (S1) while it is not in the latter structure (S2). It has more verbal properties and (hence) more deeply embedded in S1 than in S2. Because of these characteristics the VN phrase in S1 cannot be modified or moved. Notice that the VN (and *ha-*) is the same in the two structures regardless of the differences of its syntactic behavior, which will be considered shortly.

Our last main point for a new analysis is that LVC sentences in general

are ambiguous between S1 and S2. For example, sentence (2a) and (8) are ambiguous (between the senses of 'introduced'/'studied' and 'made an introduction'/'did studying') because the VN phrase can occur either within or outside the V' phrase. The sentence will have an S1 structure when this NP occurs within the V' phrase and it will have an S2 structure when the NP occurs outside of the phrase.

However, many of the LVC sentences become disambiguated because of the specific properties of the VN phrase in each structure. Some of them have only the S1 structure. As we can see from the data in (1b-c), the VN phrase in (1a) cannot be modified or moved. Notice that there is another Acc-marked NP outside the V' phrase. We can easily account for the disambiguation here if we assume that there can be only one Acc-marked phrase on the same level of the tree structure. Under this assumption the VN phrase can only occur within the V' phrase because the position for an Acc-marked NP outside of the V' phrase is taken by another phrase.

Another group of LVC sentences with only S1 structure is "ergative" LVC sentences:

- (9) a. pongkɨp-i   INSANG(-ɨl) ha-yess-ta.  
           salary Nom raise           do Past Decl 'The salary has been raised.'  
       b. kɨ hoisa -ka pongkɨp-ɨl INSANG(-ɨl) ha-yess-ta.  
           that company Nom           Acc 'That company raised the salary.'
- (10) a. \*pongkɨp-i [kin/əmchəŋnan INSANG(-ɨl)] ha-yess-ta.  
                   big huge  
       b. \*INSANG-ɨl pongkɨp-i ha-yess-ta.  
       c. \*[pongkɨp-i ha-n]           INSANG  
                                   Past Rel

The data in (9) show that the VN *INSANG* makes sentence (a) an ergative sentence. The Nom-marked subject NP in (a) corresponds to the Acc-marked object NP in (b). From the data in (10) we can see that the VN phrase cannot be modified, scrambled or relativized, which is a characteristic of the S1 structure. As is widely assumed, the subject in an ergative sentence has an object-like property at least logically and/or semantically. Then, we may assume that sentence (9a) has two "objects-like entities", just like sentence (1a). For the moment, until we can implement this idea into a theoretical mechanism, we can assume that the subject NP of structure S2 must be [+Agent]. Note that ergative sentences such as (9a) do not have agent subjects.

Some other sentences have only the S2 structure. Firstly, in all the following examples, the VN is not in its "original position" (cf. (8)):

- (11) a. KONGPU-nin Mary-ka ha-yass-ta. (topicalization)  
           study Top

- b. KONGPU-1i1 Mary-ka ha-yæss-ta. (scrambling)  
 c. [Mary-ka ha-n] KONGPU (relativization)

We have seen that the VN can be moved only in the S2 structure. Therefore the above examples have nothing to do with the S1 structure. We can say that they are disambiguated by syntactic (movement) operations.

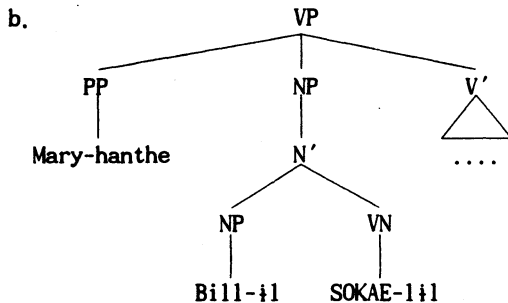
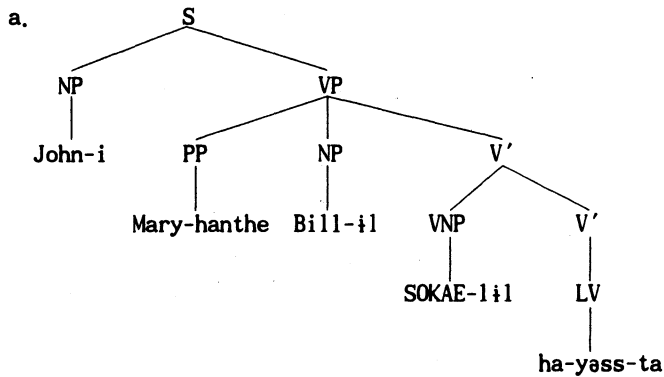
Another group of LVC sentences which have only the S2 structure is those containing adnominal modifiers. For example, the sentences in (2b) are disambiguated because only the S2 VN phrase can be modified (cf. (2b.ii)).

- (12) John-i Mary-hanthe [caemi iss-nin SOKAE(-1i1)] ha-yæss-ta.  
 (13) a. [caemi iss-nin SOKAE-1i1] John-i Mary-hanthe ha-yæss-ta.  
 b. [John-i Mary-hanthe ha-n] [caemi iss-nin SOKAE]

The data in (13) show that the modified VN phrase in (12) can be moved by syntactic operations.

Before we leave this section, let us see how we can analyze sentence (1a) under the present approach. Let us also compare the structure posited here with an alternative structure:

- (14) John-i Mary-hanthe Bill-i1 [SOKAE (-1i1)] ha-yæss-ta.  
 Nom to Acc introduction Acc do Past Decl







In particular, we provided some criteria to distinguish VNs from regular nouns in this article.

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