On the Korean Inferential Cleft Construction*

Jong-Bok Kim and Peter Sells
(Kyung Hee University and SOAS)

Kim, Jong-Bok and Peter Sells. 2011. On the Korean Inferential Cleft Construction. *Studies in Modern Grammar* 64, 45-72. Rather like English examples such as *It is that he is a genius*, Korean also has what has been called an "inferential cleft construction". This paper looks at the motivations of why speakers would introduce such a construction instead of using a simple declarative sentence, at what kind of semantic and pragmatic relations are evoked in the construction, and at grammatical properties of the construction of interest. In particular, the paper shows that unlike the English counterpart, the Korean inferential construction has no expletive pronoun, and conveys much wider inferential relationships such as explanation, reason, cause, consequence, and even paraphrase. This wide array of uses allows the construction to be used to facilitate cohesion in a variety of contexts.

*Key words:* inferential cleft, copula, predicational copula, specificational copula, identificational copula

1. Introduction

Every language presumably has a device to focus an entire clause. In English, this can be accomplished by employing an expletive matrix consisting of a non-referential *it*, a copula, and a subordinate clause, as attested from the following naturally occurring data (cf. Declerck 1992, Delahunty

* An earlier version of this paper was presented at the 9th Workshop on Inferential Mechanisms and their Linguistic Manifestation, at Kyoto University, 11-12 December 2010. We thank the audience for questions and comments. Our thanks also go to anonymous reviewers of this journal for helpful suggestions and criticisms. All errors are of course our own. This work was supported by the Korea Research Foundation (Grant No. KRF-2007-321-A00079).

(1) a. What do you think makes the program successful? I would say [it is just that the students are engaged].
   b. If there be any reasonable objection to the bill, [it is that it does not go far enough].
   c. When you have finished the novel, [it is not that you have really finished it, but that you have decided to do no more work on it].

Unlike the referential it, the pronoun it here has neither referential properties nor an overt linguistic antecedent in the preceding clause.1) We can notice from these examples is that the proposition following the complementizer that offers an explanation for the state of affairs in the preceding clause. In this sense, the construction (marked by the brackets) helps a listener to 'infer' that some explanation or reason exists and is forthcoming after the complementizer that, even if no grammatical form overtly signals this.

The construction shares some formal properties with English it-cleft constructions like It is the students that are engaged. The inferential cleft and it-cleft are lexico-grammatically similar in that they both use the expletive pronoun it and the copular verb be. Both are focusing constructions, evoking alternatives in the sense that the positives assert the relevance of the focused element over the other alternatives (cf. Declerck 1992, Delahunty 2001).2) However, a difference comes from what is focused.

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1 The lack of referential properties can be checked by questioning it here: We cannot question it by the wh-pronoun what as seen *What is just that the students are engaged?. See also Declerck 1992 and Delahunty 2001.
2 Negations of the it-cleft and inferential cleft deny the relevance of the focal constituent in the context:
   (i) a. It is not the critics who count.
      b. It is not that the critics count.
   In the it-cleft (a), there are many individuals who count. Of these, the critics are
While the canonical *it*-cleft construction disambiguates between the focused expression in the pivot XP and the presupposed information in the *that* clause, the inferential cleft construction simply presents an assertion in the *that* clause. This assertion is linked to the previous context by an inferential relationship. In this sense, it seems justified to say that such examples are syntactically similar to clefts and pragmatically induce an inferential relationship, leading us to call the construction 'inferential cleft' (cf. Lambrecht 2001).³

Korean also employs a similar construction for focussing a whole clause (cf. Kim and Sells 2007, Kim and Lee 2008). Compare the following examples:⁴

(2) a. Simple declarative:
   kuttay cha sako-ka na-ss-e
   that moment car accident-NOM happen-PST-DECL
   'At that moment, a car accident happened.'

b. Inferential cleft:
   kuttay cha sako-ka na-n kes-i-ya
   that moment car accident-NOM happen-PNE KES-COP-DECL
   'At that moment, it is that a car accident happened.'

These two examples have the same propositional content, that a car accident occurred, but are different in the sense that (2b) has the formal noun *kes* (literally 'thing' or 'fact'; glossed simply as KES here) followed by the copula verb *i*- This example, unlike the canonical declarative, also conveys

³ Different names have been given to this English construction: sentential focus cleft (Horn 1989), inferential construction (Delahunty 2001), *it-is-that* construction (Otake 2002), and so forth.

⁴ The abbreviations used in this paper are: COP (copula), COMP (complementizer), DAT (dative), DECL (declarative), GEN (genitive), LOC (locative), PST (past), PL (plural), PNE (prenominal ending), TOP (topic), QUE (question), etc.
an inferential relationship, for example, that the reason for a state of affairs in the previous context is due to the fact that there was a car accident.5) The following attested example illustrates the effect of evoking an inferential relationship more clearly:

(3) etise sicakhay-ya ha-na? [[ku-ey tayhay a-nun kes-i cenhye where begin-COMP do-QUE he-LOC about know-PNE KES-NOM at.all eps-nun kes]-i-ta not.exist-PNE KES-COP-DECL

'Where should (I) begin? (I do not know where to begin).

The reason is that there is nothing at all that I know about him.'

The second sentence here provides an explanation for the situation denoted by the first sentence. The embedded clause of *kes* provides us with an explanation or reason for the first sentence 'I do not know where to begin'. The inferential cleft thus helps us to convey an inference relationship between the previous sentence and the subordinating clause -- an explanation with respect to the state of affairs denoted by the previous sentence.

Many research questions arise from this construction. The first question concerns the formal properties of the construction, compared to other canonical clefts. The next question is why speakers use such an inferential cleft construction instead of the truth-conditionally identical simple declarative one. This question is related in turn to the issue of what kinds of inferential relationships are conveyed by the construction. It has been noted that in English, the construction canonically conveys the meaning of reason or explanation, but languages may be different in the type of inference relationships conveyed by the construction (cf. Delahunty 2001, Declerck 1992, Otake 2002, Delahunty and Gatzkiewicz 2000). Our corpus search indicates that Korean introduces the inferential constructions in a

5 For detailed discussion of the formal properties of *kes*, see Kim and Sells (2007) and references therein.
much wider context even for paraphrasing and simply adding information. In answering these questions, we first review the formal properties of the three types of clefts (predicational, identificational, and inferential) to see how the inferential cleft is different from the others. We then look into the discourse and pragmatic properties of the inferential cleft in detail. Based on naturally occurring data extracted from the Sejong Corpus,6 we also look into the possible inference relationships that are evoked in the construction. We also suggest a direction for syntactic analysis for the construction.

2. Cleft Constructions in Korean

2.1 Three Types of Cleft Constructions

As noted, the Korean inferential cleft construction subordinates a declarative clause under the formal noun kes.7 One of its important uses is in cleft constructions marking a constituent as a discourse prominent element. There are at least three main types of clefts with kes, including the inferential cleft:

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6 The balanced corpus Sejong Corpus has 100 million words.
7 The noun kes has a variety of uses and is one of the top five most frequently used words in the language. In terms of its morphosyntactic properties, the formal noun kes can be classified either as a noun meaning 'fact' or 'thing' or as a pure sentential nominalizer (cf. Kim and Sells 2007):

(i) a. nay kes-i ne kes-pota khu-ta ('thing')
    my thing-NOM your thing-morebig-DECL
    '(Lit.) My thing is bigger than your thing.'

    b. [[John-i mek-un]kes]-ul mek-ess-ta ('thing')
    John-NOM eat-PNE thing-ACC eat-PST-DECL
    '(We) ate the thing that John ate.'

    c. [[John-i talli-nun] kes]-ul moll-ass-ta (S-Nmlz)
    John-NOM run-PNE KES-ACC not.know-PST-DECL
    '(We) didn't know that John was running.'
These three types of cleft constructions consist of a cleft clause, a pivot XP, and the copular verb. The predicational cleft in (4a) consists of a cleft clause with a missing object, coindexed with the precopula expression kacca 'fake'. In the identificational cleft (4b) the nominative phrase i chayk 'this book' functions as the pivot XP coindexed with the missing object. In these two clefts, the pivot XP is linked to the content of the cleft clause introduced by kes, though the exact semantic function is different. Meanwhile, in the inferential cleft (4c), the whole clause preceding the kes expression (followed by the copula i-) is focussed and functions as the pivot phrase. The syntactic and information structures of these three types of clefts can be schematized as follows:

(5) a. Predicational cleft:

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[SP [s 'clause'] kes]-TOP XP-COP-DECL
------------given
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b. Identificational cleft:

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XP-NOM [SP [s 'clause'] kes]-COP-DECL
.....
new ------------given
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8 For detailed discussion of Korean cleft constructions, see Kim (2008) and references therein.
c. Inferential cleft:
   (adverbial) \[[\text{NP} \text{[s 'clause']} \text{kes]}-\text{COP-DECL} \]
   \[\text{new}\]

As shown here, both the predicational and identificational cleft have a pivot or focused expression like the English cleft constructions. In the predicational cleft, the \text{kes} phrase typically hosts the topic marker, and so describes given information against which the precopular XP presents new information. In the identificational cleft, the initial phrase bears the nominative marker, expressing new information whereas the precopular \text{kes}-headed clause conveys given information. Meanwhile, in the inferential cleft the clausal complement of \text{kes} is all presented as new information.

In what follows, we will review the similarities and differences between these three clefts so that we can better understand the formal properties of the inferential cleft construction in question.

2.2 Predicational and Identificational Cleft

The canonical cleft clause, usually representing given or discourse-old information, has a syntactically missing argument or adjunct linked to the pivot XP. In this respect, Korean clefts behave like relative clauses:

\[(6)\]
\begin{align*}
\text{a. } & \text{[John-} i \text{__ilk-un] ku chayk} \\
& \text{John-NOM read-PNE the book} \\
& \text{'the book that John read'} \\
\text{b. } & \text{*[John-} i \text{ ku sosel-ul ilk-un] ku chayk} \\
& \text{John-NOM the novel-ACC read-PNE the book} \\
& \text{'the book that John read the novel'}
\end{align*}

\[(7)\]
\begin{align*}
\text{a. } & \text{*[John-} i \text{ ku sosel-ul ilk-un kes]-un palo I chayk-i-ta} \\
& \text{John-NOM the novel-ACC read-PNE KES-TOP very this book-COP-DECL} \\
& \text{'It is this very book that John read the novel.'}
\end{align*}
b. *i chayk-i palo [John-i ku chayk-ul ilk-un kes]-i-ta
   this book-NOM very John-NOM the book-ACC read-PNE KES-COP-DECL
   'This book is the very one that John read the novel.'

As illustrated in (6), the relative clause is required to have a missing argument (or adjunct) linked to the head noun, and cannot be a complete clause. The same constraint holds for the predicational and identificational cleft. The examples in (7) illustrate that the cleft clause in (5a) and (5b) cannot be a complete clause with no missing element.

As for the possible type of the pivot phrase in predicational copula, the phrase can be either an argument or an adjunct. A postpositional or semantic marker associated with the focused expression is optional:

(8) a. John-i Mary-lul manna-n kes-un [kongwen-(eyse)]-i-ta
    John-NOM Mary-ACC meet-PNE KES-TOP park-at-COP-DECL
    'It was at the park that John met Mary.'

b. John-i Mary-eykey senmwul-ul cwu-n kes-un wupyen-(ulo)]-i-ta
    John-NOM Mary-DAT present-ACC give-PNE KES-TOP mail-by-COP-DECL
    'The way John gave Mary a present is by mail.'

Canonically an adverb cannot be in the pivot XP position, but when it is categorically nominal, it can function as the pivot phrase in the precopular position:9)

(9) a. John-i Mary-lul manna-n kes-un [eeey]-i-ta
    John-NOM Mary-ACC meet-PNE KES-TOP yesterday-COP-DECL
    'It is yesterday when John met Mary.'

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9 True adverbs cannot be focused in either the predicational or identificational cleft:
(a) a. *John-i talli-n kes-un chencheni-i-ta
    John-NOM run-PNE KES-TOP slowly-COP-DECL
    '(lit.) The way John ran was slowly.'

b. *[chencheni]-ka John-i talli-n kes-i-ta
    slowly-NOM John-NOM run-PNE KES-COP-DECL
b. John-i Mary-lul manna-n kes-un [siksa-lul ha-ko nase]-i-ta
   John-NOM Mary-ACC meet-PNE KES-TOP meal-ACC do-COMP after-COP-DECL
   'It is after having a meal when John met Mary.'

Meanwhile, the identificational cleft does not allow an adjunct to be focused, regardless of the presence of the postposition:

(10) a. *[kongwen-(eyse)]-ka [John-i Mary-lul manna-n kes]-i-ta
    park-at-NOM John-NOM Mary-ACC meet-PNE ES-COP-DECL
    '(At) the park is where John met Mary.'
   b. *[sanso-ka pwucokhayse]-ka swum-i taptapha-n kes-i-ta
    oxygen-NOM short-do-NOM breath-NOM choking-PNE ES-COP-DECL
    'Lacking oxygen is what is hard to breathe.'

The impossibility of having a postpositional phrase as the pivot phrase means that the identificational cleft only allows an NP to serve as its pivot (focused) XP. More specifically, in the identificational cleft, the pivot NP in the initial position must be a referential NP.

The gapped element in these two types of cleft constructions can be in the embedded clause, allowing a potentially long-distance relationship between the gap and the linked XP:

(11) a. [John-i [Mary-ka __ coahanta-ko] sayngkakha-nun kes]-un
    John-NOM Mary-NOM like-COMP think-PNE KES-TOP
    i kulim-i-ta
    this picture-COP-DECL
    'What John thinks Mary likes is this picture.'
   b. i kulim-i [John-i [Mary-ka __ coahanta-ko]
    this picture-NOM John-NOM Mary-NOM like-COMP
    sayngkakha-nun KES-COP-DECL
    think-PNE kes]-i-ta
    'This picture is what John thinks Mary likes.'
In both predicational and identificational clefts, the pivot phrase *i kulim* ‘this picture’ is linked to the object of the embedded clause. This pivot XP, however, cannot be an adjunct in the embedded clause. This is once again similar to relative clauses:

(12) a. [John-i [Mary-ka ku chayk-ul ilkessta-ko]] sayngkakha-n ecey
    John-NOM Mary-NOM the book-ACC read-COMP think-PNE yesterday
    'the time when John thought Mary read the book'

   b. [John-i [Mary-ka ku chayk-ul ilkessta-ko] sayngkakha-nun kes]-un
    John-NOM Mary-NOM the book-ACC read-COMP think-PNE KES-TOP
    ecey-i-ta
    yesterday-COP-DECL
    'The time when John thought Mary read the book was yesterday'

In both relative and cleft examples here, the relativized and cleft adjunct is linked to the higher main clause, not to the embedded clause, illustrating the long-distance relationship.

In sum, both the predicational and identificational clefts behave alike in many respects. They both partition the presupposed expression and the pivot (focused) phrase, require a missing element in the cleft clause linked with the pivot phrase, and display unbounded dependency properties. However, they are also different with respect to what can be in the pivot XP. The noticeable difference is that the pivot XP in the identificational cleft must be a referential NP.

### 2.3 Inferential Cleft

As noted earlier, unlike the predicational and identificational constructions, in the inferential cleft *kes* can nominalize a whole preceding S, highlighting an event. Consider the following pair:
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(13) A: way motwu-ka coyongha-ci?
   why all-NOM quiet-QUE
   'Why is everyone quiet?'
B: sensayngnim-i hwakana-n kes-i-ya
   teacher-NOM angry-PNE KES-COP-DECL
   'It is that the teacher got angry.'

(14) A: atul-i nemwu nollasse.
   son-NOM very surprised
   'The son was surprised a lot.'
B: kuttay apenim-i tuleo-si-n kes-i-ya
   that moment father-NOM come.in-HON-PNE KES-COP-DECL
   'It is at that moment that father came in.'

Unlike the predicational or identificational cleft in which the focused element is either a precopula phrase or the referential first argument of the copula, the inferential cleft here is focusing a whole clause. For example, in (14a), the proposition that the teacher got angry is given as the pivot information, offering an explanation why everyone (in the classroom) is quiet. This 'sentential focus' property of the inferential cleft can be supported by the fact that the construction functions as a canonical answer to a question asking for an explanation:

(15) A: achim-ey way kulehkey solansulep-ess-ni? mwusun il-i-ya?
   morning-LOC why so noisy-PST-QUE what thing-COP-QUE
   'Why was it so noisy in the morning? What happened?'
B: elin haksayng-i totwuk-ul cap-ass-ten kes-i-ya
   young student-NOM thief-ACC catch-PST-PNE KES-COP-DECL
   'It is that a young student caught a thief.'

One main difference from the two cleft constructions discussed above is that in the inferential cleft, there is no syntactic gap in the kes clause that is linked to the pivot XP:
As we saw above in the other cleft types, the gap in the cleft clause semantically matches the pivot XP. However, such a gap does not exist in the inferential cleft.

This difference is related to the status of kes. The noun kes in the predicational and identificational cleft can be replaced by a common noun, but this is not possible in the inferential cleft:

(17) a. [John-i _ ilk-un kes/chayk-un] [kacca]-i-ta
    John-NOM read-PNE KES/book-TOP fake-COP-DECL
    'What/the book John read is a fake.'

b. [i chayk]-i palo [John-i _ ilk-un kes/chayk-i-ta]
   this book-NOM very John-NOM read-PNE KES/book-COP-DECL
   'This book is the book/what John read.'

(18) a. kuttay sako-ka na-n kes/*iyu-i-ta
    the moment accident-NOM occur-PNE KES/reason-COP-DECL
    'At the moment, it is that an accident occurred.'

b. kuliko nase hyeng-i os-ul twici-nun kes/*swunkan-i-ess-ta
   and then brother-NOM clothes-ACC search-PNE KES/moment-COP-PST-DECL
   'And then, it is that brother was searching for the clothes.'

The contrast in (17) and (18) shows that kes in the inferential cleft has different syntactic properties from the predicational and identificational cleft constructions.

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10 For discussion of syntactic aspects of Korean cleft constructions, see Kim (2008) and references therein.
3. Interpretive Properties of the Inferential Cleft

3.1 Relation to the Specificational Copular Construction

All of the cleft constructions of interest have the copula as the matrix verb. It is familiar from works such as Heggie (1988), Den Dikken (2001), Heycock & Kroch (2002) or Mikkelsen (2004) that there are at least three types of copular constructions in English: predicational, identificational (or equational), and specificational. Illustrative examples are given in the following:

(19) a. The hat is big.
    b. Sylvia is Tully.
    c. Who is the director? The director is John.

In the predicational copular construction (19a), the post-copula expression big predicates a property of the subject the hat. The equational copula in (19b) equates the referents of the two surrounding expressions: the referent of Sylvia is identical with that of Tully. Hence the subject in both of these interpretations is referential. Finally, in the specificational copular construction (19c), the subject expression provides a description or characterization and the post-copular expression provides specifies a referent: 'John' is the value that satisfies the variable 'the x who is the director'.

Copula constructions in Korean can be also classified into these three types, as illustrated in the following (cf. Kim and Sells 2007):

(20) a. Predicational:
    i. moca-nun kacca-i-ta
    this hat TOP fake-COP-DECL
    'This hat is fake.'
b. Identificational:

Chelswu-ka palo kusalam-i-ta
Chelswu-NOM very that person-COP-DECL

'Chelswu is that very person.'

c. Specificational:

nay-ka manna-n salam-un Chelswu-i-ta
I-NOM meet-PNE person-TOP Chelswu-COP-DECL

'The person I met is Chelswu.'

The referential properties of each argument here are slightly different, due to the interpretation of the copula. For example, in the predicational (20a), the first subject argument is referential while the precopular NP is non-referential. In the identificational copular example (20b), both NPs are referential, but in the specificational (20c), the subject argument is non-referential whereas the precopular argument can be either referential or non-referential (cf. Mikkelsen 2004).11)

Just like English, the Korean specificational copula displays canonical specification properties. The precopula XP provides a value to the variable

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11) According to Mikkelsen (2004), the referential property of the English copula subject is seen from the contrast in the following:

(i) a. The tallest girl in the class is Molly, isn't it?
   b. The tallest girl in the class is Swedish, isn't she/*it?

The specificational clause (ia) allows it in a tag question, implying that the subject is non-referential and in fact denotes a property. Meanwhile, the predicational example in (ib) has the feminine pronoun, indicating that the subject is referential.

For the Korean examples, this non-referential property of the specificational subject can be found in examples like (ii):

(ii) [nay-ka manna-n kes-un] Chelswu-i-ta
    I-NOM meet-PNE KES-TOP Chelswu-COP-DECL

'The person I met is Chelswu.'

The formal noun kes canonically refers to an inanimate object, not a person, but the formal noun kes here at first glance refers to the individual 'Chelswu.' This is possible, given that kes is non-referential here, but the bracketed clause just provides a partial description of an object in an event, which is then specified to be 'Chelswu.' See Kim and Sells (2007) for further discussion.
'x' as set up by the *kes*-clause. In addition, the cleft has an exhaustive implicature and induces a contrastive reading. That is, 'Chelswu' in the example above is understood as the only value that satisfies the variable, but the implicature of exhaustiveness can be cancelled.

Korean inferential clefts share many semantic and pragmatic properties with the specificational copula construction. First, just like specificational copula, the inferential cleft construction provides a value to the variable provided from an inferred relationship:

(21) amwu-to tola o-ci anh-ass-ta. kyelkwuk, motwu-ka
    anyone-also return come-COMP not-PST-DECL. ultimately everyone-NOM
    silphayha-n kes-i-ta
    not-PST-DECL fail-PNE KES-COP-DECL

'Nobody came back. Ultimately, everyone failed.'

The example (21) can be interpreted as 'x is the following y'. We infer that the variable 'x' is about the reason that nobody came back and the value is provided by the inferential cleft such that everyone failed. The inferential construction thus provides specificational information for the variable 'x'.

Second, just like specificational copula, the inferential cleft has an exhaustiveness implicature. That is, the inferential cleft provides a value to the variable 'x' (denoting an inferential relation such as 'reason') that is inferred from the previous context. When the value is provided, it means that there is no other value satisfying the variable apart from the one provided by the inferential cleft.\(^\text{12}\) Consider the following:

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\(^{12}\) This position is derived from Declerck (1992) for English inferential constructions. Delahunty (2001) provides a different perspective, which space limitations do not allow us to discuss here. The properties of the Korean inferential cleft lead us to follow Declerck's analysis.
There was a big bustling in the whole village. It is that Mia got a gold medal.

The inferential cleft here provides the value to the reason why the whole village is having a party. It implies that there is no other reason for the village to have the party. The exhaustiveness of the value is also supported by the adverbial element *palo* 'very'. However, the this implicature can be cancelled overtly (e.g., if Mia is also getting an award from the president).

Another characteristic property of the specificational copular construction is the tendency for it to be interpreted as contrastive (cf. Declerck 1981, 1992). The following example shows how the inferential cleft can often be interpreted as contrastive:

(23) ku-nun ilcic sapep sihem-ey hapkyekha-yess-ta.
he-TOP early bar exam-LOC pass-PST-DECL
ku-ka chencay-i-n kes-i anila nolyek-uy kyelkwa-i-ess-ta
he-NOM genius-COP-PNE KES-NOM not effort-GEN result-COP-PST-DECL

'He passed the bar exam early. It is not that he is a genius, but that he tried hard.'

The two values are contrastive here: the inferential cleft provides the value for the variable of the reason he passed the bar exam early. The value is the proposition that he tried hard. This asserted value contrasts with the rejected value that he is a genius.

The observations we have made suggest that just like the specificational copula, the inferential cleft also provides a value to the variable given in the context, has exhaustiveness implicature, and offers a value that contrasts
with other possible values for the variable 'x'.

3.2 Discourse Constraints and Inference Relations

One intriguing constraint on the inferential cleft is that it cannot be used discourse initially. That is, a discourse cannot start with an inferential cleft:

(24) a. annyeng! nay-ka tola oasse/*o-n kes-i-ya
    Hello I-NOM return came/come-PNE KES-COP-DECL
    'Hello, (*it is that) I came back.'

b. Uh! ton-i han pwun-to epskwuna/*eps-nun kes-i-ya
    Uh money-NOM one penny-even not.exist/not.exist-PNE KES-COP-DECL
    'Oh, (*it is that) I do not have any money.'

The ban on having the inferential cleft in the discourse initial position is related to the specificational property. The cleft provides a value to the variable 'x' which needs to be provided either by context or linguistically prior to the cleft. The inferential cleft is therefore not interpretable in isolation or from the beginning of a given discourse.

As noted by Mikkelsen (2004), the subject of the specificational copula canonically functions as topic whereas the precopular argument is focus. The same fact holds in the Korean inferential cleft: in the inferential cleft, the topic is the previous context, though not overtly realized in the inferential cleft whereas the kes-clause is focus as the whole. For example, consider the following attested example:

    by.the.way someday-from village-NOM noisy-become-PST-DECL

    tongney-ka caykaypal toynta-nun kes-i-ta
    village-NOM redevelopment become-PNE KES-COP-DECL
    'By the way the village became so noisy from a certain day.
It is that the village is going to be redeveloped.'
The precopula expression is the inferential cleft denoting new information. The subject, not realized here, can be a variable 'x' that is set up in the previous context. We can then interpret the unrealized subject as the given information, supporting Mikklesen's (2005) observation.

The constraint that the inferential cleft cannot be discourse-initial and thus requires an antecedent is essential in providing an inference relationship. We can observe that even in non-initial position, it requires an antecedent.

(26) ecce-ci? #nay-key ton-i han phwun-to eps-nun kes-i-ya
   how-QUE 1-NOM money-NOM one penny-even not.exist-PNE KES-COP-DECL
   'What should I do? I do not have any money.'

Even though the inferential cleft here is in the non-initial position, its use is infelicitous since the antecedent for the inference relationship we need to evoke is not available. This requirement is also observed even when the cleft is in a question:

(27) yosay-nun mikwuk-ey caewu an kaney.
    nowadays-TOP America-to often not go
    icye hankwuk-ulo wancenhi toloa-n kes-i-ya?
    now Korea-to completely return-PNE KES-COP-QUE
    '(I see that) you are not going to America often nowadays.
     Is it that you now returned to Korea forever?'

The inferential cleft questions if the reason why 'you are not going to America often' is the one provided in the cleft.

Note that English inferential construction requires an overt linguistic antecedent, whereas the Japanese no da inferential cleft can take either a linguistic or nonlinguistic antecedent (cf. Kuno 1973, Otake 2002):
The speaker scratches his leg.

a. ka	ni sasareta
      n  desu  (Japanese)
               mosquito by  was.bitten-PNE  COMP  COP.PRES
      '(lit.) I was bitten by a mosquito.'

b. It is that I was bitten by a mosquito.

The inferential cleft in Japanese is triggered by the preceding nonlinguistic information. However, this cannot happen in English. Interestingly, the Korean inferential cleft also seems to behave like English, requiring a linguistic antecedent. Observe the following examples:

The speaker scratches his leg.

a. [moki-eykey mwulli-n]  kes-i-ya
      mosquito-by  bitten-PNEKES-COP-DECL
      '(I) was bitten by a mosquito.'

b. [moki-eykey mwulli-n]  kes  kath-ta
      mosquito-by  bitten  KES  seem-DECL.
      'It seems that (I) was bitten by a mosquito.'

Given the context in which the speaker is scratching, he or she cannot use the inferential cleft, but instead can introduce a raising construction which requires no overt preceding contextual information.

The natural question is then what kind of inference relationship is available in the Korean inferential cleft? Similar to English, the Korean inferential cleft also conveys the meaning of cause, reason, and explanation. We have identified 132 corpus examples from the 100 million word Sejong corpus, noting that they support these relations, often cued by an adverbial element:

(30) a. kuttay saken-i  ilena-n  kes-i-ta
      the  moment  accident-NOM  occur-PNE   KES-COP-DECL
      'At the moment, it is that the accident occurred.'
b. kulayse tongsayn-i maum-i apa-ss-ten kes-i-ess-ta
   so brother-NOM mind-NOM sick-PST-PNE KES-COP-PST-DECL
   '(lit.) So, the bother's mind was hurt.'

The adverbial elements *ku ttay* 'at the moment' and *kulayse* 'so' help us to build a reason or consequence relationship between the prior context and the cleft here. In addition to these common inference relationships, the attested examples also convey meanings such as conclusion, consequence, and condition, which are also cued by an adverbial element:

(31) a. Reason:
   kulayse hoysa-ka mangha-nses-i-ess-ta
   so company-NOM collapse-PNE KES-COP-PST-DECL
   'So, it was that the company was collapsed.'

b. Conclusion:
   kyononcekulo motwu-ka sengkong-ul ha-yess-ten kes-i-ess-ta
   in conclusion everybody-NOM success-ACC do-PST-PNE KES-COP-PST-DECL
   'In conclusion, it was that everybody succeeded.'

c. Consequence:
   ku kyelkwalo ku-nun pwucang-ul sungein
   the consequence he TOP chief-LOC promotion do-PST-PNE KES-COP-DECL
   'As the consequence, it was that he was promoted as the chief.'

d. Conditional:
   i sangthay-ka cisoktoy-myen, pyenghwu-ka cengchak toy-nun
   this situation-NOM continue-IF peace-NOM settlement become-PNE KES-COP-DECL
   'If this situation continues, it is that peace is settled.'

This does not mean that an adverbial cue is always provided. Context can
also provide a cue to the semantic relation. Consider the following attested examples:

(32) a. Reason
   ku hoysa-nun olhay cekca-lul nayessta.
   the company-TOP this.year deficit-ACC produced
   yenghwapwunya-eyse khun sonsil-ul ip-ess-ten kes-i-ta
   movie.area-at big loss-ACC wear-PST-PNE KES-COP-DECL
   'The company is in deficit this year. (The reason is that) it has a
   big loss in the investment in movies.'

b. Consequence
   ku-nun icwung suphai-to mata ha-ci anhassta.
   he-TOP double spy-also rejection do-COMP not
   cengpo-lul ppaynay samkwuk-ey-to nemki-n kes-i-ta
   information-ACC steal third country-to-also hand.out-PNE KES-COP-DECL
   'He even acted as a double agent. (That's why) he stole information
   and handed it over to the third country.'

It is noted in the literature on English, that the predominant 'inference' relations are explanation, reason, but not relations like conclusion or consequence (Bolinger 1972, Declerck 1992, Bearth 1999). In particular, the English inferential cleft cannot have a paraphrasing relation (see (33a)), mainly because of the existence of the complementary that-is construction (Otake 2002):

(33) a. They completely clammed up. *It is that/That is, they refused to
   speak.

b. Nobody has invited me to dance. It is that/*That is, I am not pretty
   enough.

Even though both that-is and it-is inferential construction add information to the previous context, the two are different in the sense that the former
expresses a 'paraphrase' while the latter gives us an 'interpretation' as a kind of reason.

Japanese is similar to English in that it does not license a paraphrasing inference relation. Otake (2002) points out that the Japanese inferential cleft, *no da* construction, can rarely be preceded by an adverb like *sunawati* meaning 'that is':

(34) kokkai-wa niin kara naru.
Diet-TOP two chambers consist
sunawati, syuugiin to sangiin de aru/na nodearu
that is House and councilors be C be
'(Lit) The Diet consists of two chambers.
That is, the House of Representatives and the Councilors.'

However, the direct counterpart of the Korean inferential cleft can follow an adverb like *cwuk* 'that is':

(35) aitul-i wanceni malmwun-ul tat-ass-ta.
children-NOM completely speak.door-ACC close-PST-DECL

cwuk malha-nun kes-ul kecelha-nun kes-i-ta
that is speak-PNE-KES-ACC refuse-PNE KES-COP-DECL
'They completely clammed up. That is, they refused to speak.'

Further attested examples are given in the following:

(36) a. Paraphrasing:

motun i-tul-i ku-lul pwulewe ha-yess-ta.
all person-PL-NOM he-ACC envious do-PST-DECL

tasi malhaca-myen ku-nun khukey sengkongha-n kes-i-ta
again say-if he-TOP big succeed-PNE KES-COP-DECL

'Everyone envied him. To say it again, it is that he succeeded greatly.'
b. Additional information:
ku-nun wu-tong-ul cal ha-yess-ta.
he-TOP sports-ACC well do-PST-DECL
ppwunman anila, ttohan, kong-pwu-to cal ha-yess-ten kes-i-ta.
only not also study-even well do-PST-PNE KES-COP-DECL
'He did well in sports. In addition, (he) studied well.'

The inferential cleft here in (36a) paraphrases the previous context, explaining the previous message in a more plain way. This kind of paraphrase function is cued by the adverb cwuk 'that is' or tasi malha-myen 'if saying it again'. Unlike English and Japanese, Korean inferential construction can thus convey information that paraphrases the preceding context.

As we have seen, the Korean inferential cleft conveys a wider range of meanings, including reason, explanation, consequence, as well as paraphrasing. It appears that the inferential cleft is used as long as it can improve coherence in the text. The inferential cleft is introduced to establish relationships between the preceding context and the event denoted by the kes subordinate clause. As Halliday and Hasan (1976) and Halliday and Kirkwood (1985) point out, the 'cohesion' relationship allows the parts of a text to 'hang together' in a clear relationship. Among the ways to achieve stronger cohesion, English can use conjunctions:13)

(37) a. additive: and, furthermore, likewise, ...
   b. adversative: yet, in fact, however, ...

13 Other ways of establishing 'cohesion' among parts of a given text include the use of referential nouns, substitution, and ellipsis:
   (i) There was a fire in a downtown apartment last night. The morning newspaper
didn't carry a story about it, but the event paper has one. The fire was the worst
that I've ever seen so far.
The pronoun it refers to a fire, whereas one substitutes a fire. In addition, fire was
elided in the phrase the worst. All these are introduced as a way of building cohesion
relationships within the text.
c. causal: so, therefore, as a result, thus, because, ...
d. temporal: then, first, second, third, ...

Interestingly, more than 85% of the corpus examples of inferential clefts that we identified also co-occur with one of these corresponding conjunctive adverbs to aid in establishing a cohesion relation in the text. This makes plausible the claim that the inferential cleft construction is introduced to help the readers or hearers establish a strong cohesion relationship between the previous context and the state of affairs denoted by the kes subordinating clause.

4. The Syntax of the Inferential Cleft

The syntax of this construction is also of interest: Does the copula take only one argument, the kes nominalized sentence? It seems somewhat implausible to treat this copula different from the predicational or specificalional copula selecting two arguments. If the copula here also is dyadic, the immediate question that arises is what is the subject in the inferential cleft? Honorification marked by si on the predicate indicates that the first nominative phrase is not the matrix subject:

(38) a. ku ttay sensayng-nim-i o-si-n kes-i-ta
then teacher-HON-NOM come-HON-PNE KES-COP-DECL
'And then the teacher came.'
b. *ku ttay sensayng-nim-i o-si-n kes-i-si-ta
c. *ku ttay sensayng-nim-i o-n kes-i-si-ta

The honored subject agrees only with the subordinate predicate, not with the copula.

We suggest that the copula in the inferential cleft is minimally different from the copula in the predicational or identificational cleft in that the
first argument is an 'obligatorily' unrealized pro element linked to a discourse antecedent.

(39)  

There is no clear evidence for the existence of the subject pro here, but one possible piece of evidence comes from the fact that the pro subject can be replaced by an NP corresponding to the inferential relation evoked in the context. For example, in (15), having the subject the reason (which is optional) makes the inferential relationship more visible and clear:14)


'Why was it so noisy in the morning? What happened?'

B: ku iyu-nun [elin haksayng-i totwuk-ul cap-ass-ten kes-i-ya]
the reason-TOP young student-NOM thief-ACC catch-PST-PNE KES-COP-DECL

'It is that a young student caught a thief.'

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14 To be more precise, the noun reason has an argument position ("the reason for X"); the head noun iyu 'reason' together with the definite article ku 'the' render this position salient.
As we have observed, the available inference relations in the construction include cause/reason, explanation, conclusion, consequence, and even paraphrasing. These relations correspond to the variable provided by the context. This in turn means that the variable can be lexicalized as a nominal element (or an adverbial nominal like kyelloncekulo 'in conclusion'). A unified account of the copula verb i-ta can be achieved at the cost of postulating the invisible pro element, but at this stage it seems to be the most optimal way to account for the properties of the construction. What this assumption further indicates is that the inferential cleft is a subtype of the specificational copula, together with its own additional constructional constraints.

5. Conclusion

In terms of formal syntactic and semantic properties, the inferential cleft is closely related to the copula constructions, in particular the specificational copula construction, with which it shares some interpretive properties. Yet the inferential cleft construction in Korean has a very wide set of discourse functions, inducing an 'inference' relation, dependent upon the preceding context. In particular, similar to its English and Japanese counterparts, it triggers the hearer to 'infer' a relationship between the previous context and the construction, in addition to supplementing the information denoted by the cleft clause. The interpretation process is either a bridging or

\[15\] Declerck (1992) also points out that only the variables lexicalized as nouns in the 'NP-is-that' construction can take the 'that' clause as their value. However, the problem is that there are many exceptions as shown in the following example:

(i) a. The possibility/prediction is that he would pass the exam.
   b. Nobody has invited me to dance. It *will/can/should/ought to be that

   I'm not pretty enough.

Even though a noun like possibility can occur in the 'NP-is-that' construction, it cannot function as the variable in the inferential cleft construction. This implies that there is a restriction on inferring the relationship between the inferential cleft construction and the previous context: the inference relationship need be a strong one based on direct or indirect evidence. The possibility cannot provide a strong inference.
elaborative 'inference' process to increase cohesion whose meaning is either marked by an overt conjunctive element or by a discourse. Like English, the semantic relation between the inferential cleft and its antecedent can be 'cause, conclusion, reason, explanation' but the Korean inferential construction can induce much wider functions. For example, unlike English and Japanese, the Korean inferential cleft can convey information that paraphrases the preceding context.

References


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Jong-Bok Kim  
School of English, Kyung Hee University,  
1 Hoegi-dong Dongdaemun-gu, Seoul, 130-701 Korea  
Tel. (02)961-0892 E-mail: jongbok@khu.ac.kr

Peter Sells  
School of Oriental and African Studies, University of London  
Thornhaugh Street, Russell Square, London WC1H 0XG  
Tel: +44–(0)20–7637–2388 E-mail: sells@soas.ac.uk

Received: May 3, 2011  
Revised version: June 8, 2011  
Accepted: June 15, 2011