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Semantic Differences between Caki 'self' and Caki-casin 'self-self'

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The ultimate goal of this paper is to provide five types of evidence that the Korean reflexives auki self and auki-auxit self-self are synonymously used, but they are not semantically equivalent. First, when auki-self and auki-auxit self-self have the only NP and even NP as their antecedent, the truth condition becomes different. Second, local auki self is construed as simply coreferential with its antecedent, whereas local auki-auxit self-self is construed as associated with its antecedent by variable binding. Third, auki self reveals the demonstrative effect and acts as a free variable, whereas auki-auxit self-self shows neither the demonstrative effect nor the function of a free variable. Fourth, auki self admits direct thoughts and auki-auxit self-self attributes indirect thoughts. Fifth, auki self is associated with its antecedent by common reference, whereas auki-auxit self-self inherits anaphoric reference from its antecedent.

Key words: binding, coreferential, bound variable, anaphoric reference, common reference

1. Introduction

The main purpose of this paper is to verify that in some environments, the Korean reflexives alkiself and alkisaintself-self are synonymously used, but they are not semantically equivalent. In this paper, we provide five types of evidence that alkiself and alkisaintself-self are not semantically equivalent. In section 21, we show that when the Korean reflexives alkiself and alkisaintself-self have the only NP as their antecedent, the truth condition becomes different. Also, we show that when alkiself and alkisaintself-self take the even NP as their antecedent, the truth condition becomes different. In section 2.2, we contend that local alkiself is construed as simply coreferential with its antecedent, whereas local alkisaintself-self is construed as associated with its antecedent by variable binding. In section 2.3, we point out that alkiself reveals the demonstrative effect and functions as a free variable, whereas alkisaintself-self shows neither the demonstrative effect nor the function of a free variable. In section 2.4, we maintain that alkiself admits direct thoughts and alkisaintself-self inherits anaphoric reference from its antecedent.

2. Semantic Differences between Caki 'self' and Caki-casin 'self-self'

2.1. Truth Condition

This section is devoted to the semantic difference between aukt self and aukt-auint self-self. We will start by looking more closely at the following sentences:

(1) John-mani caki-casin-ul pinanhayssta.
only self-self-ACC criticized
(Only John criticized self-self.)
(2) John-mani caki-lul pinanhayssta.
only self-ACC criticized
(Only John criticized self.)

When an anaphor has the only NP as its antecedent, the truth condition becomes different (Evans 1980, Reinhart 1986, Richards 1997, Hiraga & Nissenbaum 2006). In some environments, the Korean reflexives *aki-axid* self-self and *aki* self are interchangeable, but the following state of affairs suggests the opposite:

(3) (1) =1
JohnJohn
Tom Tom
Bill Bill
Mary Mary

In (3), John is the only self-criticizer which is compatible with (1). In (3), Tom did not criticize himself, Bill did not criticize himself, and Mary did not criticize herself. In (3), only John is a self-criticizer, which renders (1) true. Now observe the following state of affairs:

(4) (1)=0 John John Tom Tom

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Bill Bill Mary Mary

The state of affairs in (4) makes (1) false since John criticized himself and Tom also criticized himself. That is to say, John is a self-criticizer and Tom is also a self-criticizer, which is not compatible with (1). Now let us observe (2) and (5):

(5) (2)=0 John John Tom Tom Bill Bill Mary Mary

In (5), only John did not criticize John since Tom also criticized John, which is not compatible with (2). This in turn indicates that the state of affairs in (5) renders (2) false. Now observe the state of affairs in (6):

(6) (2)=1 John John Tom Tom Bill Bill Mary Mary

In (6), only John criticized John, which is compatible with (2). Tom criticized himself, but did not criticized John. In addition, Bill criticized Tom and Mary criticized Bill. Thus, it is reasonable to conclude that *adel-acint* self-self are synonymously used, but they are not semantically equivalent. Also, when an anaphor takes the even NP as its antecedent, the truth condition becomes different. Let us observe the following examples:

 (7) John-cocha caki-casin-ul onghohayssta. even self-self-ACC defended (Even John defended self-self)
 (8) John-cocha caki-lul onghohayssta. even self-ACC defended (Even John defended self.)

Now observe the following state of affairs:

(9) (7)=0 John John Tom Tom Bill Bill Mary Mary

The state of affairs in (9) makes (7) false since John defended himself, but Tom, Bill, and Mary did not defend themselves, respectively. However, the state of affairs in (10) makes (7) true:

(10) (7)=1

John John
Tom Tom

Bill Bill

Mary Mary

The state of affairs in (10) renders (7) true since (7) indicates that for every x, x defended x, and John is the last person who defended himself. However, let us observe (8) and the following state of affairs:

(11) (8)=1 John John Tom Tom Bill Bill MaryMary The state of affairs in (11) makes (8) true since (8) indicates that Tom, Bill, and Mary defended John and John is the last person who defended John. Likewise, the following state of affairs also makes (8) true:

(12) (8)=1
John John———
Tom Tom——
Bill Bill —
Mary Mary

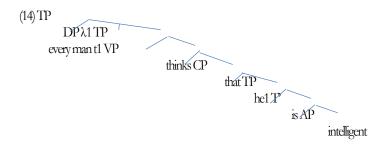
The state of affairs in (12) makes (8) true since (8) indicates that for every x, x defended x and John is the last person who defended himself. This in turn suggests that alk'self is two way ambiguous in the truth condition. We thus conclude that alk'self is not the semantic equivalent of alk'-axin'self-self.

2.2. Coreferential vs. Bound Reflexives

It is well-known that pronouns in some instances do not have a referential meaning. A quantified DP does not refer to a unique individual and pronouns can take quantified DPs as their antecedents (Mckillen 2016):

- (13) [DP Every man] thinks that he is intelligent.
 - a. For every x, x thinks that x is intelligent.
 - b. *Every man thinks that every man is intelligent.

How do we get the intended reading of (13)? As pointed out by Mckillen (2016), QR moves a DP to adjoin to a higher node in the tree and introduces a variable binder, $\lambda 1$:



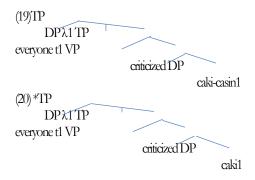
In (14), any mansemantically binds the pronoun histore any mans-commands hand hand the trace of any manare bound by the same variable binder, λ1 (Mckillen 2016: 7). With this in mind, let us turn our attention to ankinself and ankinavint self-self. In this section, we wish to argue that the Korean reflexive ankinavint self-self is construed as associated with its antecedent by variable binding, whereas the Korean reflexive ankinself is construed as coreferential with its antecedent. Let us observe the following sentences:

(15) John-i caki-casin-ul onghohayssta.
NOM self-self-ACC defended (John defended self-self.)
(16) John-i caki-lul onghohayssta.
NOM self-ACC defended (John defended self.)

When a DP appears as its antecedent, we cannot see any difference in naturalness between *aski-asint* self and *aski* self. However, when a Wh-word or a QP appears as its antecedent, the difference in naturalness between *aski-asint* self becomes sharper.

(17) Nwukwuna caki-casin-ul piphanhayssta. everyone self-self-ACC criticized (Everyone criticized self-self.)
(18) ???Nwukwuna caki-lul piphanhayssta. everyone self-ACC criticized (Everyone criticized self.)

The contrast of naturalness between (17) and (18) can be accounted for by the availability of variable binding of aukiraxin'self-self and aukirself. More specifically, the grammaticality of (17) suggests that aukirself-self induces variable binding, whereas the marginality of (18) suggests that aukirself may not. Simply put, aukiraxin'self-self is construed as a bound variable, whereas aukirself may not be construed as a bound variable. In (18), the hearer is favored over the QP antecedent as the referent of aukirself. An important question to be asked at this moment is "why is the sentence in (16) where aukirself is associated with its DP antecedent grammatical?" We wish to argue that aukirself in (16) is not bound by the DP antecedent John, but simply coreferential with it. Thus, it is reasonable to conclude that aukirself is construed as coreferential with its antecedent, whereas aukiraxin'self-self is construed as associated with its antecedent by variable binding. Now how do we get the intended reading of (17) and (18)? Let us observe the following trees:



In (19), QR moves a DP to adjoin to a TP in the tree and introduces a variable binder, λ 1, but (18) cannot have the tree such as (20) since *aukt* self may not be interpreted as a bound variable. Thus, *aukt-axint* self-self and *aukt* self have the following LF representations, respectively:

- (21) [molni, [mtariticzed caki-casin.]
- (22) [TP] ohn criticized caki;

We assume along with Heim (1991, 1992) and Mckillen (2016) that QR may apply to any kinds of DPs. When a binder undergoes QR, only variable binding is possible, whereas when the binder does not undergo QR, variable binding is not possible. Then (15) has the following tree:



In (23), Johnsemantically binds adki-axint self-self since Johnsemands adki-axint self-self and adki-axint self-self and the trace of Johnse bound by the same variable binder, $\lambda 1$. We thus conclude that local adkt self is construed as simply coreferential with its antecedent, whereas local adki-axint self-self is construed as associated with its antecedent by variable binding. This in turn suggests that adkt self cannot be analyzed on a par with adki-axint self-self.

2.3. Demonstrative Uses

Among demonstrative uses, Higginbotham (1992, 1999) distinguishes the free use of an element from the discriminating use. In the case of the free use of an element, its utterance is not accomplished by any act of ostension or gesture on the speaker's side. On the other hand, the discriminating use is signaled by ostension.

It is evident that the Korean reflexives *auki-unint* self-self and *auki* self are locally bound as well as LD-bound. Hence, the following examples are judged to be grammatical with the intended reading and there is no difference in meanings between *aukt-unint* self-self:

```
(24) John<sub>r</sub>i Bill-eykey Mary<sub>i</sub>-ka caki<sub>v/</sub>-lul
NOM DAT NOM self ACC
ttlyessta-ko malhayssta.
hit-COMP said
(John said to Bill that Mary hit self.)
(25) John<sub>r</sub>i Bill-eykey Mary<sub>i</sub>-ka caki-casin<sub>v/</sub>-ul
NOM DAT NOM self-self-ACC
ttlyessta-ko malhayssta.
hit-COMP said
(John said to Bill that Mary hit self-self.)
```

The grammaticality of (24) and (25) indicates that binding condition A functions in order to include *John* Amas the referents of *arki-axint* self-self and *arki-axint* self-self. Note, conversely, that since the utterance of (26) is accompanied by the act of pointing, *arki* self can only refer to *John*.

```
(26) John-i Bill-eykey Mary-ka caki (points to John)—lul
NOM DAT 'NOM self ACC
ttlyessta-ko malhayssta.
hit-COMP said
(John said to Bill that Mary hit self.)
```

Unlike (24), in (26), auktself can only refer to Johndue to the discriminating use of a demonstrative, which is can be used by the speaker in order to indicate a particular object. Now let us observe the following sentence:

```
(27) John-i Bill-eykey Mary-ka caki (points to Bill)—lul
NOM DAT NOM self-ACC
ttlyessta-ko malhayssta.
hit-COMP said
(John said to Bill that Mary hit self.)
```

Unlike (24), in (27), askiself can only refer to Billas its antecedent due to the act of pointing by the speaker's intention. Likewise, the same can be said of the following sentence:

```
(28) John-i Bill-eykey Mary-ka caki (points to Mary)—lul
NOM DAT NOM self-ACC
ttlyessta-ko malhayssta.
hit-COMP said
(John said to Bill that Mary hit self.)
```

Note that the demonstrative effect can be used by the speaker in order to indicate a particular object or particular objects. Hence, in (28), alk! self can only refer to Manas its referent, which is exactly what we gain from the speaker's intention. Now let us observe the following sentence:

```
(29) John-i Bill-eykey Mary-ka caki (points to John, Bill,
NOM DAT NOM self
and Mary)—lul ttlyessta-ko malhayssta.
ACC hit-COMP said
(John said to Bill that Mary hit self.)
```

Interestingly, in (29), ask! self can refer to John, Bill, and Manas its referents due to the discriminating use, which is used by the speaker in order to indicate particular objects. This in turn suggests that ask! self can act as a free variable, depending on the demonstrative effect. Now attention is paid to ask! self:

```
(30) John-i Bill-eykey Mary-ka caki-casin (points to Bill)
NOM DAT'NOM self-self
—ul ttlyessta-ko malhayssta.
ACC hit-COMP said
(John said to Bill that Mary hit self-self.)
```

The utterance of (30) is accompanied by the discriminating use, but it does not work for *arki-axint* self-self. That is to say, *arki-axint* self-self cannot refer to *Bill*, despite the discriminating use. Rather, *arki-axint* self-self refers to *John* and *Bill* its referents, which suggests that the act of pointing does not work for *arki-axint* self-self. Exactly the same can be said about (31):

```
(31) John-i Bill-eykey Mary-ka caki-casin (points to John,
NOM DAT NOM self-self
Bill, and Mary)—ul ttlyessta-ko malhayssta.
ACC hit-COMPsaid
(John said to Bill that Mary hit self-self.)
```

Again, the demonstrative effect does not work for arkinavin self-self. Simply put, arkinavin self-self cannot refer to John, Bill, and Manyas its referents. This in turn suggests that arkinavin self-self does not show the demonstrative effect and it does not act as a free variable. Thus, it is reasonable to conclude that arkinavin self-self cannot be analyzed on a par with arkins they are not identically equal in their meanings.

2.4. Direct Thoughts vs. Indirect Thoughts

The present section is concerned with a distinction between direct thoughts and indirect thoughts (Higginbotham 1989b, 1992, 1999). We wish to argue that the Korean reflexive *akisain* self-self attributes direct thoughts, whereas the Korean reflexive *akisain* self-self attributes indirect thoughts of the sort associated with English pronouns.

Let us start from a distinction between the two notions. A distinction of semantic contribution between anaphoric elements lies between what Higginbotham terms direct and indirect. In English, this distinction clearly puts PRO on the direct side and ordinary pronouns on the indirect side. Standard contexts include (32) and (33):

(32) John expects PRO to win.

(33) John expects he will win.

(Higginbotham 1992)

PRO and pronouns become different truth-conditionally, relying on which kind of interpretation is assigned to PRO and the English pronoun he. We can understand (33) as true when John believes that "the person who trained hardest will win and that John is the person who trained hardest" (Higginbotham 1992). On the contrary, (32) is true only if "the first-person thought that John would express with (34) can be ascribed to him" (Higinbotham 1992).

(34) I will win.

Now let us consider whether PRO and overt pronouns in Korean possess the same interpretation as those of English.

(35) a. John-i PRO ikilkess-ul kitayhanta.

NOM to win-ACC expect
(John expects to win.)
b. John-i ku-ka ikilkessila-ko kitayhanta.

NOM he-NOM will win-COMP expect
(John expects that he will win.)

Only (35a) is true only if "the first-person thought that John would express with I will win' can be ascribed to him" (Higginbotham 1992). On the other hand, (35b) stands true only if "the person who trained hardest will win and John is the person who trained hardest" (Higginbotam 1992). Such distinctions indicates that Korean PRO is semantically direct, whereas Korean pronouns are indirect.

Now let us turn our attention to the Korean reflexives akt self and aki-axitiself-self.

(36) John-i caki-ka ikilkessila-ko kitayhanta.

NOM self-NOM will win-COMP expect

(John expects that self will win.)

(37) John-i caki-casin-i ikilkessila-ko kitayhanta.

NOM self-self-NOM will win-COMP expect

(John expects that self-self will win.)

In fact, (36) and (37) express the same proposition, but *aukt*/self admits direct thoughts, whereas *auki-axin* self-self attributes indirect thoughts. From (37) above, we can obtain the reading of John expects JOHN (but not other people) will win. *Caki-axin* in (37) gives rise to a presupposition such that there are people who are likely to win and John is the only person who will be so. Thus, it is reasonable to assume that *auki-axin* self-self admits direct thoughts, whereas *auki-axin* self-self attributes indirect thoughts. This suggests that the meaning of *auki-axin* self-self is not logically deducible from that of *auki-axin* self-self.

2.5. Anaphoric Reference and Common Reference

In this section, we wish to argue that aukt self is associated with its antecedent by common reference, whereas aukt-axist self-self inherits anaphoric reference from its antecedent. Let us consider a certain structure Σ which has two positions:

$$(38) [\Sigma ... [X] ... [Y] ...]$$

Higginbotham (1992) proposes two types of intentions:

- (39) (1) "The speaker intends Σ to be taken such that Y inherits its reference from the antecedent X".
 - (i) "The speaker does not have the intention in (i), but intends to be taken such that the reference of X and the reference of Y coincide". (Higginbotham 1992)

Higginbotham (1992) terms (i) anaphoric reference and (ii) common reference. The main difference between common reference and anaphoric reference is supported by cases like (40) and (41):

- (40) John thinks Billitold Fredabout himself_{i/r}
- (41) Before I met Chomsky, I had read several books by Chomsky.

In (40), the grammaticality of (40) indicates that the English anaphor himselfinherits anaphoric reference from Billand Fred. On the other hand, in (41), "the speaker I might be intending to be understood by the hearer as talking about one person named Chomsky" (Higginbotham 1992), hence common reference.

Now we try to show that *arki-unit* self-self inherits anaphoric reference from its antecedent and thus is a true anaphor. On the other hand, *arki* self is associated with its antecedent by common reference and thus is not a true anaphor. Let us observe the following sentences:

```
(42) a. John-i caki<sub>Johnorheater</sub>—lul piphanhayssta.

NOM self-ACC criticized

(John criticized self.)
b. John-i caki-casin<sub>Johnorheater</sub>—ul piphanhayssta.

NOM self-self-ACC criticized

(John criticized self-self.)
```

When an NP is the antecedent of alk! self, the linguistic antecedent Johnis preferred over the hearer. When a QP is the antecedent of alk! self, the opposite happens:

```
(43) a. Nwukwuna caki<sub>haata/??**somoone</sub>-lul everyone self-ACC piphanhakoissessta. was criticizing (Everyone was criticizing self.)
b. Nwukwuna caki-casin-thaata/somoone-ul everyone self-self-ACC piphanhakoissessta. was criticizing (Everyone was criticizing self-self.)
```

When a QP is the antecedent of askself, askself cannot refer to the linguistic antecedent, which in turn suggests that askself does not inherit anaphoric reference from the QP. Now an important question to be asked is "why is (42a) is grammatical?" We wish to argue that the reason why (42a) is grammatical is that in (42a), the reference of John and the reference of askself coincide, hence common reference. However, when a QP appears as the antecedent of askself, common reference does not happen due to the nature of QPs. In contrast, asksasint self-self can be associated with the linguistic antecedent Johnin (42b) or the QP antecedent in (43b). That is to say, asksasint self-self cares for neither an NP antecedent nor a QP antecedent since it inherits anaphoric reference from its antecedent. These are predicted, given the fact that asksasint self-self inherits anaphoric reference from its antecedent and thus is a true anaphor, whereas askself is associated with its antecedent by common reference and thus is not a true anaphor. The only conclusion that we can derive from this is that the meanings of askstelf and those of asksasint self-self are not identical.

3. Conclusion

The ultimate goal of this paper is to demonstrate that in some environments, the Korean reflexives arkivelf and arkivarint self-self are interchangeable, but they are not semantically equivalent. In section 2.1, we have shown that when the Korean reflexives arkivelf and arkivarint self-self have the only NP as their antecedent, the truth condition of the sentence including arkivelf and arkivarint self-self becomes different. Also, we have shown that when arkivelf and arkivarint self-self take the even NP as their antecedent, the truth condition becomes different. In section 2.2, we have contended that local arkivelf is construed as associated with its antecedent by variable binding. In section 2.3, we have pointed out that arkivelf shows the demonstrative effect and acts as a free variable, whereas arkivarint self-self shows neither the demonstrative effect nor the function of a free variable. In section 2.4, we have maintained that arkivelf admits direct thoughts and arkivarint self-self inherits anaphoric reference from its antecedent.

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