

Yorùbá COPY Negative Polarity Items

Abstract

This paper gives a syntactic account of two forms of Negative Polarity Items (NPIs) in Yorùbá, which correspond to English *any*-NP type of NPI (N-k-N, e.g. *ẹnikẹni* “anybody”, and N-kan-kan, e.g. *ẹni-kankan* “anybody”). I dub these two forms COPY NPIs because they involve reduplication. There is a discussion on whether the COPY NPIs are Type1 or Type2 NPIs in line with Collins and Postal’s (2014) distinction between the two types of NPI, which corresponds to the traditional Strict and Non-strict distinction. The Yorùbá COPY NPI data are described using the framework developed in Collins and Postal (2014), where NPIs are analyzed in terms of NPI-internal Neg formation, matrix clause Neg raising, and Neg deletion. I argue that this way of looking at NPIs provides an insight into the internal properties of NPIs cross-linguistically and an avenue to further examine the properties of sentential negative markers by looking at how negation is formed within NPIs. Building on the proposed parameters in Collins et al. (2015), four parameters are set for Yorùbá COPY NPIs against English *any*-NPIs and Ewe Ke-NPIs.

1.0. Introduction

The main purpose of this paper is to provide a syntactic account of Yorùbá negative polarity items, corresponding to English *any*-NP polarity items, such as *ẹnikẹni* (anybody) and *ẹni-kankan* (anybody), which I have tagged COPY NPIs, since they both involve reduplication.

One of the most researched phenomena in formal linguistics is the topic of Negative Polarity Item (NPI). NPIs are lexical items that are known to occur only in negative contexts or licensed by negation (or anti-veridicality), downward entailment, or non-veridicality (Giannakidou, 2011). They are also licensed in some other syntactic environments such as within the scope of the quantifier *every*, and in interrogative clauses.

NPIs are attested in quite a number of languages and cross-linguistic works devoted to determining their distributions are common in the literature. Haspelmath (1997), for example provides a typology of 100 languages which are known to have indefinite pronouns. Since Haspelmath's sample was designed to accommodate mostly known language families and given the fact that indefinite pronouns are the prominent members of the class of items dubbed NPIs (indeed Ladusaw, 1996:193, observes that NPIs have been termed indefinites since Klima 1964), it can be said that NPIs are attested in most known languages.

NPIs have been described in the literature of formal linguistics mostly from the viewpoint of pragmatics and semantics where they are considered as indefinites occurring within the scope of negation, and there have also been syntactic theories (such as Klima 1964, Baker 1970, Linebarger 1981 and 1987) accounting for the distribution of NPIs. Collins and Postal, 2014 (henceforth CP2014) is a recent attempt to provide a syntactic analysis of NPIs. The syntactic account provided for NPIs in that monograph holds a lot of insight into the compositional make-up of NPIs in different languages, and can be very useful in finding a cross-linguistic pattern for NPIs, the *any*-NPIs especially.

In the literature of formal linguistics, Yorùbá NPIs have received little attention, and even one work, (Koch, 2005) that attempts to account for Yorùbá NPIs focuses on one realization of Yorùbá *any*-type NPI, N-k-N form. This account is from a semantic point of view. In this paper, I provide a syntactic account of Yorùbá NPIs, from the viewpoint of the framework developed in CP2014, and show what consequences my analysis has for the theory proposed therein.

In Section 2 of this paper, I lay out the basic components of CP2014's treatment of NPIs and suggest its usefulness for providing a cross-linguistic account of NPIs and in further


investigating the underlying forms of negative particles in natural language within NPIs. Section 3 takes on the challenge of reduplication that is found within *any*-type NPIs in Yorùbá, and Section 4 provides an analysis of Neg raising for the two types of *any*-NPI that are the focus of this paper. In Section 5, the COPY NPIs are analyzed in terms of long distance licensing and remnant raising, while Section 6 addresses the question of whether the NPIs are Type 1 or Type 2, or are ambiguous between the two, in accordance with the CP2014 framework. Section 7 concludes with discussion on cross-linguistic variation and parameters.

2.0. An overview of CP2014 Framework on NPIs

Central to CP2014 is the idea of Neg raising, which is used to account for the alternation found between sentences such as those in (1) and (2).

1. a. John believes Mary did not do it.
b. John does not believe Mary did it.
2. a. They think it will not happen.
b. They do not think it will happen.

Each of the pairs have the same underlying forms but the alternation is brought about by a transformational rule dubbed Neg raising, so that the basic difference between (1a) and (1b) on the one hand and (2a) and (2b) on the other hand is that in the (a) sentences, Neg is in the position where it is interpreted while in the (b) sentences, Neg raises to the matrix clause but is interpreted in its original position. In other words, in (1a) and (2a) Neg is pronounced in the embedded clause where it is interpreted, while in (1b) and (2b), Neg is pronounced in the matrix clause but is interpreted in the embedded clause. This can be visualized in (3).

3. a. [_{CP}John believes [_{CP}Mary did NEG do it]
 - b. [_{CP}John NEG₁ believes [_{CP}Mary did <NEG₁> do it]
- 

This idea of Neg raising is a well-established notion in the literature, dating to as far back as Fillmore (1963), and much work has been done in this respect. Stretching this idea a bit, CP2014 propose that Neg raising occurs even within a matrix clause that lacks an embedded clause: that is, in a sentence containing an NPI, Neg originates from within that NPI. This same proposal has been used to analyze bipartite negation in Ewe, where Neg originates from within a VP-internal DP, raises to T and then to C, where it is pronounced. Neg raising involving NPIs is depicted in (4) and (5), ignoring the detailed properties of NPIs for now.

4. a. They saw nobody
 b. They saw NEG body
5. a. They did not see anybody
 b. They did NEG₁ see <_cNEG₁> body.

Just as in the previous examples, in (4a), Neg is pronounced (within the DP). But in (5b), it is pronounced higher up in the structure while it is interpreted within the DP. In other words, (4) does not involve Neg raising, while in (5) Neg raises higher up in the structure. From this picture, it is clear that quantifier words like *no one*, *nobody*, *no food*, etc. have equivalent meaning with their corresponding *any*-NPIs, given the similarities between (4) and (5). I elaborate more on this below.

Treating NPIs in this version gives rise to teasing out the individual components of NPIs. In CP 2014 framework, an NPI such as *anybody* will have the following form:

6. [DP any body]
- [DP<NEG>¹ SOME body]

¹ <> indicates that the enclosed item is unpronounced.

Here, NEG is unpronounced, *any* is spelt out as the suppletive SOME, while the NP, *body*, remains the same. Bearing in mind the similarity between (4) and (5), consider (7).

7. [DP No body]
 [DP NEG <SOME> body]

In (7), Neg is pronounced as *no*, SOME is unpronounced and the NP, *body*, remains the same. The basic difference between (6) and (7) therefore is in whether or not NEG or SOME is pronounced within the DP. The fact of (6) and (7) presupposes (8).

8. Neg is pronounced within n-words² (quantifier words) but it is unpronounced within NPIs in English.

Note that in (6) and (7), the second line represents the underlying representation of the DPs in the first line. Focusing on the second line, one will notice that NPIs as DPs are made up of three components with NEG and SOME appearing to modify the NP as determiners. CP2014, however, argue that NEG and SOME are not actually determiners of the NP but that they belong to a different projection tagged Negative Merge Phrase (NMP) where NM is the head having SOME as its complement, and NEG as its specifier; and the NMP is in the Spec of the DP dominating the NP. Since CP2014 does not use this idea throughout the monograph and treats them instead as determiners, I will continue treat them as determiners where necessary. Returning to the number of components within the underlying forms of the NPIs, especially the *any-NPI*, the following can be postulated.

9. *Any-NPIs* are tripartite in their underlying representation having the structure [DP [<NEG> SOME] NP] and the semantics of $\lambda P \lambda Q \lambda y \lambda x \neg \exists x [P(x) \wedge Q(y)]$

The idea in (9) is that NEG may be unpronounced within NPIs while the other two components are pronounced. Based on the description of Ewe NPIs in Collins et al. (2015), Yorùbá NPIs in

² N-word is used to follow the convention in the literature and in line with Giannakidou, 2011.

Adebayo (forthcoming), and the subsequent discussion in this paper, a refined version of (9) is given in (10).

10. *Any*-NPIs are tripartite in their underlying representation, cross-linguistically, having the structure $[_{DP} [<NEG>/ \text{c}NEG \text{ SOME}] NP]$ and the semantics of $\lambda P \lambda Q \lambda y \lambda x \neg \exists x [P(x) \wedge Q(y)]$, with variation in how $<NEG>/ \text{c}NEG$ and SOME are realized.


So far I have been concentrating on the kind of *any*-NPIs which appear within a negative clause (consider (5) for example). This type of NPI is tagged Type 1 NPI in CP2014, and its basic property is that it requires that negation is present in the structure. There are, however, some other NPIs which appear in other clauses that have no negation. These kinds of NPIs are tagged Type 2 NPIs. An example of these clauses is the conditional clause. In (11), *anybody* is used as an example of Type2 NPI, but note that *any*-NP NPIs in English are ambiguous between Type1 and Type2 NPIs.

11. If you see anybody, tell me

Clearly, *anybody* is within a clause without negation. Other contexts where Type2 NPIs like *anybody* in (11) can occur include: yes-no questions, the complement of “surprise”, the restriction of universal quantifiers, and the scope of only-DPs. The question that arises then is: what happens to the structure *anybody* in (11) as an NPI? It has the same underlying representation, but instead of one NEG, it has two NEG. This is given in (12).

12. If you see $[_{DP} <NEG_1> [<NEG_2> \text{ SOME}] \text{ body}]$, tell me

So, one basic difference between Type1 and Type2 NPIs is that Type1 NPIs are unary-NEG NPIs and Type2 NPIs are binary-NEG NPIs. With this understanding of these two types of NPIs, I now turn to the analysis of both types. Type1 NPIs involve Neg raising. The unary-NEG within the NPI DP raises to the post-Aux position. Applying this to (5b) yields the structure in (13).

13. They did NEG_1 see $[<NEG_1> \text{ SOME}] \text{ body}$
- 

Type2 NPIs on the other hand involve Neg deletion, and they could be said to require the presence of a Neg deleter. The analysis of the structure in (11) is given (14).

14. [If]_{DEL} you see [[_{DP}<NEG₁> [<NEG₂> SOME]] body], tell me =
If you see SOME body, tell me.

In (14), *if* is a lexical NEG-deleter that deletes NEG₁ which in turn deletes NEG₂, yielding the interpretation *If you see SOME body, tell me*. The analysis of these two types of NPI can be formalized as in (15).

15. Type1 NPI is a unary-NEG NPI that requires negation in the structure, while Type2 NPI is a binary-NEG NPI that requires the presence of a NEG-deleter in the structure.

Before turning to the Yorùbá NPIs in the next section, the following observation is in order. In clauses involving n-words like *nobody*, there is no Neg raising (see 4b), whereas in clauses with corresponding NPI, Neg raises to the post-Aux position (see 5b). This fact led Collins et al. (2015) to claim that Neg optionally raises in English, since one could choose to use the n-word rather the NPI. In a language like Ewe, however, where there are no n-words, Neg obligatorily raises away. As will be shown in subsequent sections, Neg obligatorily raises in Yorùbá as well, since there are no words in the language corresponding to n-words. What follows from this can be found in (16).

16. Neg optionally raises in languages with n-words, while Neg obligatorily raises in languages without n-words.

With this theoretical framework spelt out, I take on the analysis of Yorùbá NPIs in subsequent sections, starting with the structure of the *any*-NP types of NPI in the language.

3.0. Reduplication in Yorùbá *any*-NP Type of NPI

Yorùbá has two forms that realize *any*-NP type of NPI such as English *anybody*, *anything*, etc. The implication is that to form an NPI of this structure, Yorùbá speakers have the choice between N-k-N form and N-kan-kan forms. Consider the structures in (17) and (18).

17. Wálé kò rí ẹnìkẹ̀ni

Wálé Neg see anybody

“Wálé did not see anybody”

18. Wálé kò rí ẹnì-kankan

Wálé Neg see anybody

“Wálé did not see anybody”

It has to be noted however that the N-k-N form in (17) is more popular than the N-kan-kan form in (18) in the literature. It is the form found in Haspelmath’s (1997:213) list of cross-linguistic indefinites, as well as in Koch (2005) and Ajiboye (2005). To proceed with the two forms, I propose the following.

19. Yorùbá has two forms of *any*-NPI: N-k-N form and N-kan-kan form

One thing that is common to both of these forms is reduplication: *eni* is reduplicated in (17), and *kan* is reduplicated in (18)³. This is an issue with the framework laid out in the previous section. The postulation in (10) specifies that *any*-NPIs cross-linguistically are tripartite in their underlying representation. This means that any-NPIs can surface as three elements, each representing each of the components of the underlying form. This works perfectly for the NPIs in (17) and (18) as there are clearly three elements. Consider (20) and (21).

20. Ẹ̀ni k ẹnì
 Person Neg person
 “anybody”

³ This is how it appears superficially. I will propose a different view subsequently.

21. *Ẹni* *kan* *kan*
 Person one one
 “anybody”

The problem seems to arise in determining which elements in the surface form corresponds with each of the elements in the underlying representation. According to (10), an NPI has the following structure.

22. [DP [<NEG>/_cNEG SOME] NP]

One way to specify the underlying form of (20) and (21), according to 10 will be to assume that they have the structure in (23) and (24) respectively.

23. *Ẹni* *k* *ẹni*
 Person NEG SOME
 “anybody”
 24. *Ẹni* *kan* *kan*
 Person NEG SOME
 “anybody”

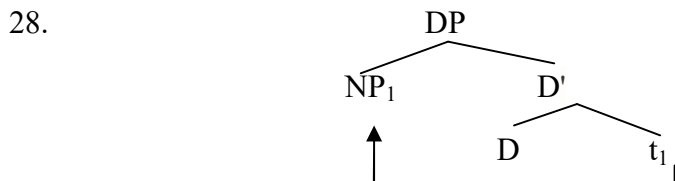
The problem with this assumption is that it incorrectly predicts that the reduplicated copies are individual words having different semantics than their bases i.e., that there is an *eni* (23) that has an existential meaning and that there is a *kan* (24) that has the meaning of negation. The other two elements are well attested in the language as having the respective specifications above. *Eni* in both refers to “person”, the *k* in (23) is a sentential negative marker (see Adebayo, forthcoming), while *kan* has been treated as a marker of specificity in Ajiboye (2005), suggesting that it has an underlying existential feature. The *eni* spelt out as SOME and the *kan* spelt out as NEG however are not attested in the language. More so, the proposal above violates in some way Kayne’s (2016) anti-bundling principle which forbids grammatical items from having the same spelling with other lexical items.

To resolve this, I argue that these two elements are simply reduplications performing grammatical functions rather than having a lexical meaning of their own. This is in line with Nash’s (1980) description of Walpiri as forming its plurality by reduplication. Interestingly enough, one of the ways Yorùbá also forms plurality is reduplication. Ajiboye (2010) has a significant amount of data on this phenomenon and treats the reduplicated items as COPY. Following this line of argument, I suggest that the two structures of Yorùbá *any*-NPIs are as in (25) and propose a refined version of (23) and (24) in (26) and (27).

25. a. N-k-COPY
 b. N-COPY-kan
26. Èni k COPY
 Person NEG SOME
 “anybody”
27. Èni COPY kan
 Person NEG SOME
 “anybody”

Essentially, I am assuming that the COPY in (26) spells out as SOME and that the COPY in (27) spells out as NEG. From now onward, I will refer to the two forms of *any*-NPI in (27) and (28) as COPY NPIs. Next, I address the question of the syntactic structure of the COPY NPIs from an X-bar theoretical point of view.

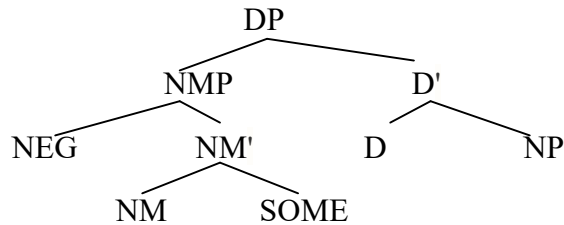
Following Kayne’s (1994) Linear Correspondence Axiom (LCA), Ajiboye (2005) proposes the following for the DP in Yorùbá.



According to this proposal, the NP that complements the determiner, which could be null or pronounced, started out at the complement of D but raises to Spec DP via movement. I assume

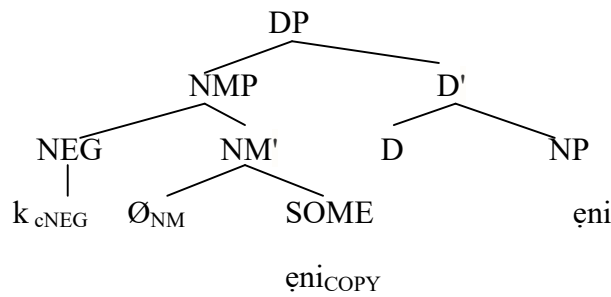
this in my analysis of the COPY NPIs. Another thing to be noted is CP2014's proposal of a Negative Merge Phrase (CP2014:27), which is generated at Spec DP in NPI DPs. This is illustrated in (29).

29.

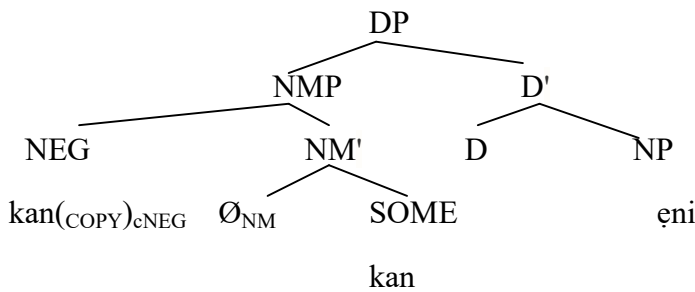


Applying this structure to the COPY NPIs pose a kind of challenge since NMP has occupied the position where the NP normally moves to, the Spec DP. This is shown in (30) and (31) for the two COPY NPIs.

30.

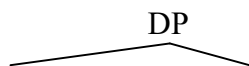


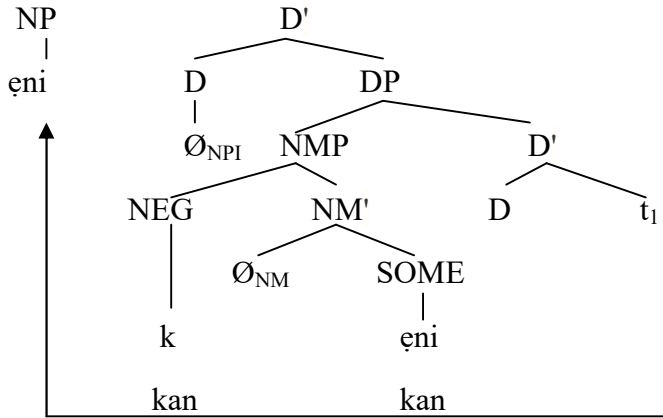
31.



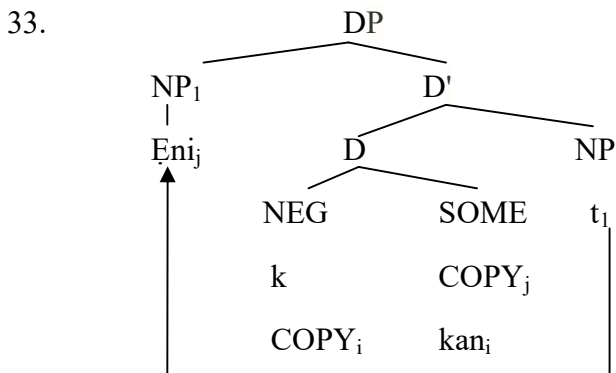
To avoid this problem, it can be assumed that this DP is dominated by another DP headed by a null determiner which expects the feature NPI as in (32). Note that both forms of the COPY NPIs are combined.

32.





There are a few problems with (32). First, the proposal of a DP having another DP in its complement is quite odd and may not be the right way to go about it. Second, movement of the NP to the Spec of the higher DP should be blocked by NMP based on Minimal Link Condition (Chomsky, 2015:272). The closest landing site for the NP is the Spec of the lower DP but this is already occupied, thereby preventing the movement of the NP higher up. Lastly, CP2014 note that they do not know of any language where the \emptyset_{NM} is pronounced. To avoid these complications, I opt for a more elegant way of treating this. I assume that NPI DPs have a complex head made up of NEG and SOME. This is shown in (33), combining both forms of the COPY NPIs. This assumption, as well, is in line with CP2014 where NEG and SOME are taken together as a determiner.



With this understanding, we are now in a position to examine the COPY NPIs in relation to Neg raising. This will be the focus of the next section.

4.0. Yorùbá COPY NPIs and Neg Raising

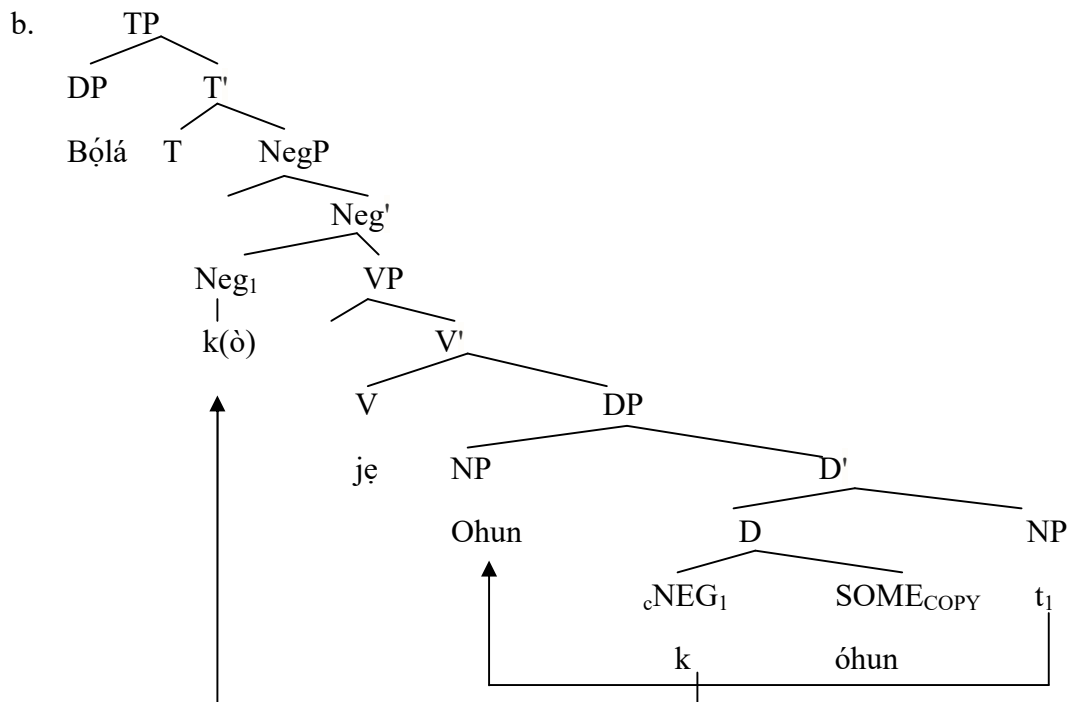
Yorùbá COPY NPIs are Type1 NPIs, since they require negation in the structure and have one NEG in such structures. I leave the issue of whether they are strictly Type1 NPIs or are ambiguous between Type1 and Type2 like English (Collins et al., 2015) till next section. Consider the following.

34. a. Bímpé kò lọ **ibikíbi**
 Bímpé NEG go anywhere
 “Bímpé did not go anywhere”
- b.* Bímpé lọ **ibikíbi**
 Bímpé go anywhere
 “Bímpé did not go anywhere”
35. a. Bímpé kò lọ **ibi-kankan**
 Bímpé NEG go anywhere
 “Bímpé did not go anywhere”
- b.* Bímpé lọ **ibi-kankan**
 Bímpé go anywhere
 “Bímpé did not go anywhere”

The examples above show clearly that the COPY NPIs require negation in the structure and are therefore Unary-NEG NPIs. Next is to consider their interaction with the negative system in the language. Yorùbá has a negative system that is a bit complex. Contrary to the notion that Standard Yorùbá has six sentential negative markers, Adebayo (forthcoming) argues that there are only two negative markers (*má*-morpheme and *k*-morpheme) whose surface form is determined by aspect, mood, and focus. *Má* negates irrealis mood while *k* negates realis mood. Constrained by the syllable structure well-formedness constraint (Ola, 1995), which requires

every syllable to have a nucleus, the *k* morpheme spells out with different vowels depending on aspect and focus. It surfaces as *kò* and *kó* in perfective aspect and as *kì* in imperfective aspect. See Adebayo (forthcoming) for more details. I now turn to how the NEG within the COPY NPIs interacts with these sentential negative markers.

36. a. Bólá kò jẹ ohunkóhun
 Bólá NEG eat anything
 “Bólá did not eat anything”

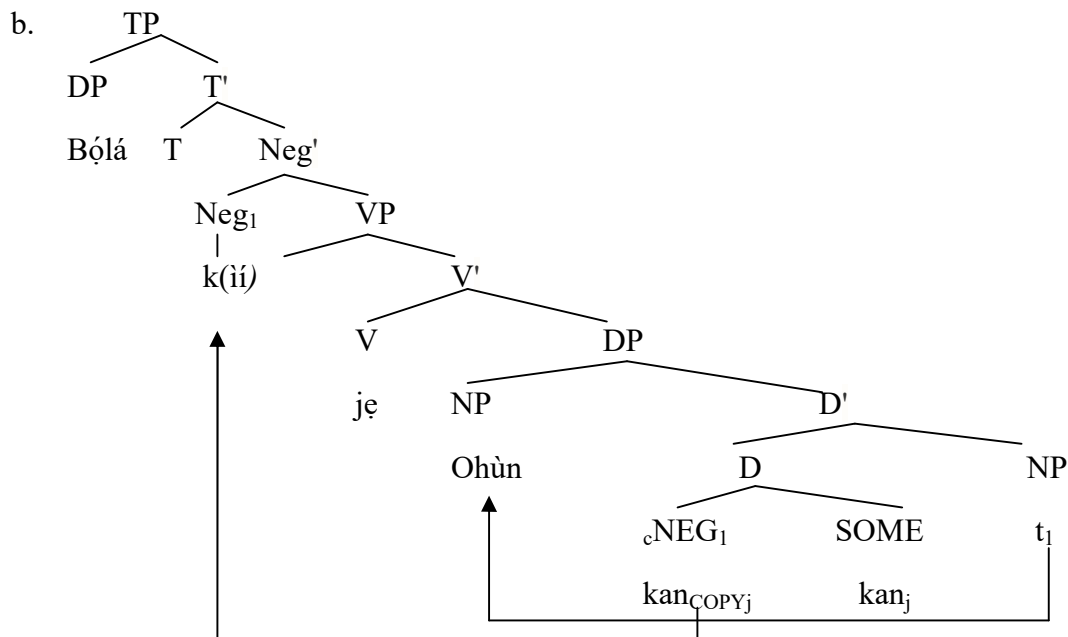


The structure in (36b) shows how Neg raises from within the NPI DP. One interesting thing to note here is that unlike in English where Neg raises and does not leave a copy and Ewe where the copy left is not phonologically identical to the raising Neg (Collins et al., 2015), in Yorùbá, Neg raises and leaves a phonologically identical copy. Note that in the above tree, the Neg of the matrix clause is underlyingly the same as the NEG within the DP, the nucleus *ò* following it is derived as a result of syllable structure well-formedness constraint in Yorùbá. Note also that this derivation is shaped by aspect and focus, so that if *k* negates a focus phrase, the nucleus is

derived as *kó*, and if it negates imperfective aspect phrase, it is derived as *kíi*. For details on how this works, see Adebayo (forthcoming).

However, looking at the N-COPY-kan in (37b), it will appear that it is not obligatory for the copy left by the raising Neg to be phonologically identical to it. One may claim that the copy left is not phonologically identical to the raising Neg, but that it is rather a reduplication that gets its phonological content from the existential morpheme following it.

37. a. Bólá *kíi* jẹ **ohùn-kankan** lálẹ́
 Bólá NEG eat anything at.night
 “Bólá does not eat anything at night (habitually)”



The PP in (37a), *lálẹ́*, is left out in (37b) as it has a marginal role in the current discussion.

Observe, however, that in this structure the nucleus derivation for the raising Neg is *íi*. This is in line with the assumption that aspect shapes the nucleus derivation of the raising Neg. In (36b), *k* negates a clause in perfective aspect and so spells out as *kò* whereas in (37b), it negates an imperfective clause and surfaces as *kíi*.

However, it might be useful to consider another way of looking at the Neg raising in (37b) which might not be too ambitious. I propose that the cNEG in (37b) is not a complete reduplication of the following existential morpheme but a partial copy of it. From this viewpoint the cNEG will be phonologically identical to the raising Neg as in (38).

38. * Ohun k kan
 [Thing [cNEG SOME]]
 “anything”

But, (38) is not a phonologically well-formed prosodic word in Yorùbá since *k* lacks a nucleus, thereby violating the syllable structure well-formedness constraint. To resolve this, I assume that *k* copies the nasal vowel in the following syllable. This process of feature copying is not unattested in the language. Orié (2014), for instance, provides an analysis of Yorùbá gerundive constructions where a deformed syllable copies the consonantal features of a syllable following it to satisfy the syllable structure well-formedness constraint. Assuming that this phonological process is active in this context, the surface structure of (38) results in (39).

39. Ohun k(an) kan
 [Thing [cNEG SOME]]
 “anything”

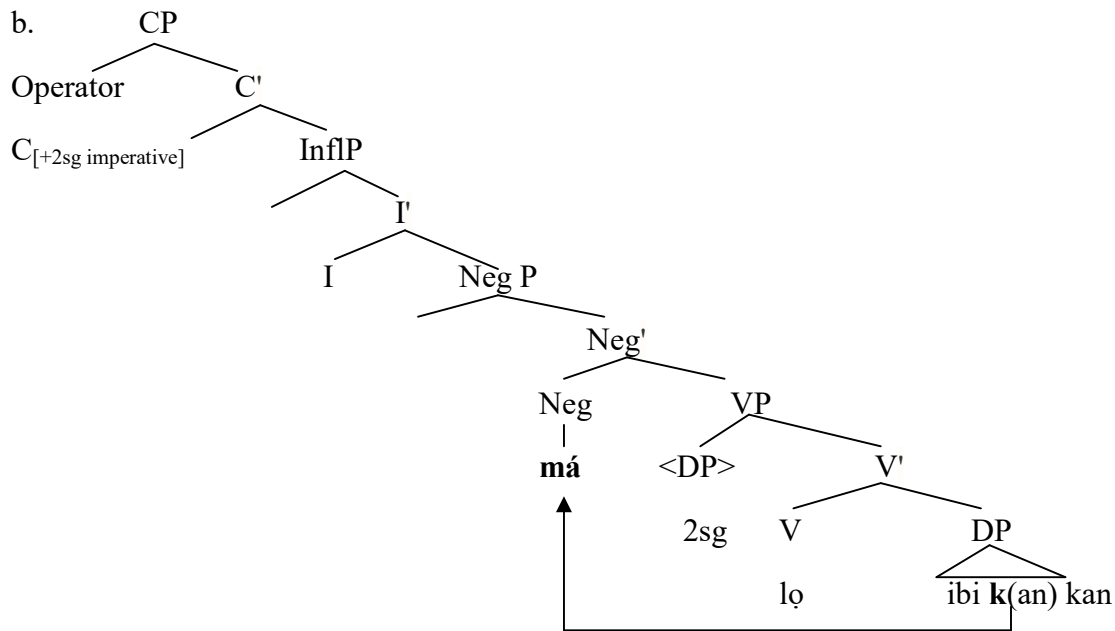
The consequence of (39) is that (25) has to be refined. This refinement is given in (40).

40. a. $N_1\text{-k-COPY}_1$
 b. $N\text{-k(COPY}_1\text{)-k(an}_1\text{)}$

Where *N* is copied in (40a) and the nasal vowel of the following existential morpheme is copied in (40b). At this point, it can be observed that Neg raising obligatorily leaves a phonologically identical copy in realis mood as the foregoing discussion has shown.

Now, consider Neg raising in irrealis mood. According to Adebayo (forthcoming), *má* is the unmarked negative marker in imperatives. The derivation in (41b) is in line with the convention of treating imperatives in Nchare (2012:397) and Zanuttini (2008).

41. a. *Má* *lọ* **ibi-kankan**
 NEG go anywhere
 ‘Don’t go anywhere’



Neg copy-raising here is highly marked in the context of the picture we have seen so far. There is something going on with the raising Neg in the imperative which is beyond the scope of the present work. It suffices to state here that the raising Neg is not phonologically identical to its copy in the imperative.

So far, we have seen that Neg obligatorily raises in Yorùbá since it lacks quantifier words like *nobody* in English, in line with the consequences of (16). This makes it similar to Ewe ke-NPI (Collins et al., 2015). Based on this, I claim the following.

42. Neg obligatorily raises in Yorùbá.

Also, it is clear from the foregoing discussion that when Neg raises in Yorùbá, it leaves a copy in the DP where it is interpreted. Accordingly, I claim (43).

43. Neg raising obligatorily leaves a copy in Yorùbá.

It has been equally established that that the copy left by Neg raising is phonologically identical to the raising Neg, but that this is not the case in the imperative. To formalize this fact, (44) is proposed.

44. The copy left by Neg raising is obligatorily phonologically identical to the raising Neg in Yorùbá except in imperative constructions.

The significance of (42)—(44) will become clear in subsequent sections when cross-linguistic parameters for NPIs are discussed.

5.0. Yorùbá COPY NPIs, Long Distance Licensing and Remnant Raising

The focus of this section is to examine the COPY NPIs in terms of long distance licensing and remnant raising in order to compare them to their counterpart in Ewe and English, described in Collins et al. (2015). First, I note that Yorùbá COPY NPIs can be licensed within an embedded clause. That is, they can occur in an embedded clause that has no negation and have their licensing negation in the matrix clause. The examples below are reflective of this.

45. a. Adé kò sọ pé wón se ohùn-kankan o
 Adé Neg say that 3rdPl do anything Emph
 “Adé did not say that they did anything”

b. Adé kò sọ pé wón se ohunkohun o
 Adé Neg say that 3rdPl do anything Emph
 “Adé did not say that they did anything”

46. a. Èmi kii bèrù pé ògá yóò sọ ohùn-kankan
 1sg Neg fear that boss will say anything

“It is not my habit to fear that boss will say anything”

- b. Emì kǐì bẹ̀rù pé ògá yóò sọ ohùnkohun
 1sg Neg fear that boss will say anything
 “It is not my habit to fear that boss will say anything”
47. a. Má bẹ̀rù pé olùkó yóò lu ẹ̀nì-kankan
 Neg fear that teacher will beat anybody
 “Don’t be afraid that the teacher will beat anybody”
- b. Má bẹ̀rù pé olùkó yóò lu ẹ̀nikéni
 Neg fear that teacher will beat anybody
 “Don’t be afraid that the teacher will beat anybody”

The COPY NPIs in all of these examples are licensed within an embedded clause. Given that the COPY NPIs are being treated as Type1 NPIs which according to CP 2014 are licensed locally, one would not expect the possibilities in (45)—(47). To address this, I follow Collin’s et al. (2015) and treat them as bipartite quantification—that is, the COPY NPIs, as quantificational DPs, have two occurrences, one in the matrix clause where they do not have phonological content and one which is VP-internal where they are pronounced. From this viewpoint, the structures in (46a and b) will have the following analysis.

48. Èmi kǐì bẹ̀rù <[ohun-kankan]₁> pé ògá yóò sọ DP₁
 1sg NEG fear thing-_cNEG-SOME that boss will say anything
 “It is not my habit to fear anything that the boss will say”

In (48), it is from within the higher occurrence of DP₁ which is silent (thing-_cNEG-SOME) that Neg raises from. This covert higher occurrence is in scope position and it c-commands the lower occurrence that has a phonological content, thereby making its position in the matrix clause legitimate. This analysis is natural for Yorùbá as this is manifested in closely related constructions. Consider (49), for instance.

49. Èmi kǐì bẹ̀rù ohùn-kankan tí ògá yóò sọ

1sg NEG fear anything which boss will say
 “I don’t fear anything that the boss would say.”

Here the COPY NPI is pronounced in the scope position and c-commands its covert lower occurrence in the embedded clause. The analysis conforming to this notion will look like (50).

50. Èmi kii beru DP₁ tí ògá yòò sọ <[ohun-kankan]₁>
 1sg NEG fear anything which boss will say thing-cNEG-SOME
 “I don’t fear anything that the boss would say”

I turn now to the issue of remnant raising (See CP2014 for more details on this). This has to do with the possibility that an NPI may occupy Spec TP i.e. it may function as a subject in which case it will be appearing higher in the tree than the NEG morpheme which is supposed to be raising from it. Yorùbá allows this kind of structure: COPY NPIs can appear in the subject position as shown below.

51. Ènikéni kò sọ pé kí o lọ
 Anybody NEG say that such.that 2sg go
 “Anybody did not say that you should go (Nobody said that you should go)”
 52. Èni-kankan kò jáde lánàá
 Anybody NEG go.out in.yesterday
 “Anybody did not go out yesterday (Nobody went out yesterday)”

This kind of structure, according to Collins et al. (2015), is not readily available in English, and it should be noted that the interpretation in each of the above sentences is literal apart from those in brackets which show how this is expressed naturally in English. In Ewe, however, NPIs can be in the subject position, and this phenomenon is analyzed in Collins et al. (2015) in terms of remnant raising. I follow this line of argument and assume that the COPY NPIs in Yorùbá originate VP-internally in line with Koopman and Sportiche (1991). The NPI DP is therefore in the Spec of VP when NEG raises out from within it. The remaining part of the DP consisting of cNEG₁, SOME and NP then raises to Spec TP to check case. This is illustrated in (53).

53. [Ènikéni]₂ kò [VP <DP₂> sọ pé kí o lọ]

Person-_cNEG₁-SOME NEG₁ say that such.that 2sg go

The movement of the remnant DP to Spec TP in (53) satisfies the c-command condition on movement which requires that the higher occurrence of a moved X c-command its lower occurrence (CP2014:109). It also satisfies the remnant raising condition in that the higher occurrence of DP₁ contains _cNEG₁ rather than a silent NEG (<NEG₁>).

In the above discussion, it has been noted that Yorùbá COPY NPIs pattern with Ewe *ke*-NPIs described in Collins et al. (2015) in two respects. First, both languages allow long distance licensing, since the NPIs can be licensed in an embedded clause by a matrix clause negation. Second, both languages allow NPIs in the subject position. These facts contradict how *any*-NPIs in English behave (Collins et al., 2015).

6.0. Yorùbá COPY NPIs as Type2 NPIs

Up to now, I have treated Yorùbá COPY NPIs as Type 1 NPIs by claiming that they have one NEG and require negation somewhere in the structure. In this section, I show that Yorùbá COPY NPIs are ambiguous between Type 1 and Type 2 NPIs just as English *any*-NPIs. They can be licensed in other contexts different from negation such as conditionals, the scope of only DP, yes/no question, the scope of quantifier words like *every*, and complement of *surprise*. The structure in (54) shows the COPY NPIs in conditionals.

54. a. Tí ẹnì-kankan bá béèrè mi, sọ fún wọn pé mo jáde
 If anybody were ask 1sg say for 3rdPl that 1sg went.out
 “If anybody asks of me, tell them I went out.”
- b. Tí ẹnìkẹ̀ni bá béèrè mi, sọ fún wọn pé mo jáde
 If anybody were ask 1sg say for 3rdPl that 1sg went.out
 “If anybody asks of me, tell them I went out.”

Both are found within yes/no questions as in (55), and within the complement of *surprise* (56).

55. a. Sé o rí ẹnì-kankan níbè?
 Q 2sg see anybody at.there
 “Did you see anybody there?”

b. Sé o rí ẹnìkẹ̀ni níbè?
 Q 2sg see anybody at.there
 “Did you see anybody there?”

56. a. Ó yà wọ̀n lẹ̀nu pé mo rí ohunkóhun mú wá
 It open 3pl at.mouth that 1sg see anything bring come
 “It surprised them that I was able to bring anything”

b. Ó yà wọ̀n lẹ̀nu pé mo rí ohùn-kankan mú wá
 It open 3pl at.mouth that 1sg see anything bring come
 “It surprised them that I was able to bring anything”

Their use in the scope of *only*-DP is given in (57) while (58) shows how they are used in the scope of quantifier *every*.

57. a. Adé nikan ló rí ohunkóhun jẹ lánàá
 Adé only FOC.3sg see anything eat at.yesterday
 “Only Adé was able to eat anything yesterday.”

b. Adé nikan ló rí ohùn-kankan jẹ lánàá
 Adé only FOC.3sg see anything eat at.yesterday
 “Only Adé was able to eat anything yesterday.”

58. a. Gbogbo ẹ̀ni tí ó rí ohunkóhun ló sọ fún kábiyèsí
 Every person who 1sg see anything FOC.3sg say for king
 “Everybody who saw anything told the king.”

b. Gbogbo ẹ̀ni tí ó rí ohùn-kankan ló sọ fún kábiyèsí
 Every person who 1sg see anything FOC.3sg say for king
 “Everybody who saw anything told the king”

The COPY NPIs in all of the above constructions are interpreted as binary-NEG NPIs, where their NEG deleters are the constructions in which they occur. For example, the structure in (55a&b) will have the following analysis.

59. Sé o rí ẹ̀nì-kankan/ẹ̀nikẹ̀ni níbẹ̀?
 Q_{DEL} 2sg see [NP- [<NEG₂> [<NEG₁> SOME]] at.there
 “Did you see anybody there?”

In (59), Q_{DEL}, as a monotone decreasing operator (CP2014:134), deletes NEG₁ which in turn deletes NEG₂, and so the sentence spells out without negation. This analysis can be applied to all the structures in (54) through (58).

One other licensing environment worth mentioning is the context of modal *lè* (Koch, 2005). Yorùbá COPY NPIs are also licensed when used in the context of *lè* modality. Surprisingly, while N-k-COPY NPIs are licensed in this context, N-k(COPY)-kan NPIs are not. Consider the following.

60. a. Ẹ̀nikẹ̀ni lè wá
 Anybody can come
 “Anybody can come.”
 b. *Ẹ̀nì-kankan lè wá
 Anybody can come
 “Anybody can come.”
61. a. Ó lè se ohunkóhun tó bá fẹ̀
 3sg can do anything which.2sg Prob like
 “He may do anything he likes.”
 b. *Ó lè se ohùn-kankan tó bá fẹ̀
 3sg can do anything which.2sg Prob like
 “He may do anything he likes.”

This is a case where there seems to be some kind of difference between the two forms of NPI in Yorùbá. Another difference that one may also mention is that the N-k-COPY NPI has a sense in which it is interpreted as *bad-NP* (see Koch 2005, for more details). I do not address this in this paper, but it will be interesting to know why this is the case. The N-k(COPY)-kan NPI does not have this reading; it will be interesting as well to know why this is so.

7.0. Conclusion

From the discussion so far, the following have become clear. First, it was proposed that the syntactic framework proposed in CP2014 has the potential to provide a comprehensive account for NPIs cross-linguistically, and that it can be used to further study the distributional properties of negation in one more context, that is, within NPIs. Nominal NPIs cross-linguistically were proposed to be tripartite in their underlying representation, having the structure [_{DP} [<NEG>/_cNEG SOME] NP] and the semantics of $\lambda P \lambda Q \lambda y \lambda x \neg \exists x [P(x) \wedge Q(y)]$, with variation in how <NEG>/_cNEG and SOME are realized. Second, it was shown that Yorùbá has two forms of NPIs that correspond to the English *any*-NPI: the N-k-COPY and the N-k(COPY)-kan. Because these two have the property of COPY in common, they were dubbed COPY NPIs. Third, it was shown that Yorùbá COPY NPIs pattern with Ewe Ke-NPIs and English *any*-NPIs, in that they participate in long distance licensing. But, it was shown that unlike English *any*-NPIs, the COPY NPIs involve remnant raising just like Ewe Ke-NPIs. Fourth, the COPY NPIs were shown to be ambiguous between Type1 NPIs and Type2 NPIs, patterning with *any*-NPIs, but distinct from Ke-NPIs, which are strictly Type1 NPIs according to Collins et al. (2015). Fifth, the discussion of the COPY NPIs in terms of Neg Raising was brought within the cross-linguistic context of English and Ewe. To concretize the discussion in this respect and building on the parameters proposed in Collins et al. (2015), the following can be put in order.

62. Parameters

A

Ewe	NEG raising leaves a copy
Standard English	NEG raising does not leave a copy
Yorùbá	NEG raising leaves a copy

B

Ewe	NEG obligatorily raises from a unary NEG structure
Standard English	NEG optionally raises from a unary NEG structure.
Yorùbá	NEG obligatorily raises from a unary NEG structure

C

Ewe	Disallows Type 2 (binary NEG) NPIs.
Standard English	Allows Type 2 (binary NEG) NPIs
Yorùbá	Allows Type 2 (binary NEG) NPIs

D

Ewe	_c NEG is attested but it is not phonologically identical to NEG ₁
Standard English	_c NEG is not attested
Yorùbá	_c NEG ₁ is attested, and it is phonologically identical to NEG ₁ except in imperatives

Finally, the basic difference between the two forms of the COPY NPIs, the N-k-COPY and the N-k(COPY)-kan, was mentioned, namely that the N-k-COPY has a sense in which it is interpreted as *bad*-NP while the N-k(COPY)-kan does not, and that the N-k-COPY can be used in the context of modal *le* while the N-k(COPY)-kan cannot. These, as well as the question why _cNEG is not phonologically identical to the raising Neg in imperatives, were not addressed in the paper, but it was suggested that these can be the subject of further research.

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