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The Syntax of Indicator Particles in Somali: Relative Clause Construction

by
Francesco Antinucci and Annamaria Puglielli
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THE SYNTAX OF INDICATOR PARTICLES IN SOMALI: 
RELATIVE CLAUSE CONSTRUCTION

by

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In Somali there is an obligatory focus-marking system. In every main declarative clause one of the constituents must be marked by a particle indicating the focus of assertion. The semantic functions and grammatical behaviour of these particles, termed "indicators"; have been described by several authors. This article attempts to show the central role of indicators in Somali syntax. More specifically, it is shown that the rules governing some syntactic constructions, such as relative clauses, subordinate clauses and noun-modifiers, are crucially dependent on them.

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1. INTRODUCTION

This paper is the first part of a larger work intended to show the fundamental role played by the so-called "indicator particles" in the syntactic organization of the Somali language.\(^1\) We will try to show that most of the Somali sentence-patterns (relative coordinated and "presentative" sentences, etc.) can be optimally accounted for if we derive them from a basic kernel containing only main declarative sentences. The different types of sentence-patterns will naturally correlate with the different types of main declarative clauses, once these are defined in terms of their indicator-structure.

In other words, we will try to present a picture of Somali sentence structure as organized in two levels: a basic one where a fairly simple and restricted set of main declarative structures are directly generated and a derived one where the remaining sentence-patterns are derived through transformation-like operations. As we will see, indicator particles have a crucial role in this process of derivation. We hope in this way to shed some light not only on the structure of the Somali language, but also on some issues of general linguistic theory, given the peculiar nature of indicator particles.

This paper will be devoted to accounting for the construction of relative clauses, subordinate clauses and some types of noun modifiers.

2. RELATIVE CLAUSES

2.1. Derivation of relative clauses from main clauses

In accordance with the program outlined above, we will argue that all Somali RCs have to be derived from main declarative clauses in which

(a) one of the NPs is identical to the head-noun;
(b) this NP is always marked by the focus indicator particle baa;
(c) this NP is deleted together with baa.

Claims (a) and the essence at claim (c), i.e. the NP deletion, are commonplaces in current linguistic theory. Current views on RC structure assume that they are derived from main clauses through deletion or pronominalization (depending on the particular language or type of RC involved) of the NP identical to the head-noun. English RCs such as

\[
\begin{align*}
(1) & \quad \text{The man who came yesterday is here} \\
(2) & \quad \text{The man I saw is here are derived respectively from underlying structures like} \\
(3) & \quad \text{[the man, [the man, come yesterday]}_{\text{NP}} \text{ is here}\text{\cite{}} \\
(4) & \quad \text{[the man, [I saw the man,]}_{\text{NP}} \text{ is here}
\end{align*}
\]

In (3) the NP the man internal to the RC is pronominalized by who, and in (4) the same NP is deleted.

\* We wish to thank Axmed Cabullaahi Axmed, Cadaa Cumar Mansur, Ciise Maxamed Siyaad, Cusmaan "Noobei", Dahabo Farax Cilm, Maryan Xaaji Cilm, Maxamed Xasan Warsame "Akhyaar", Sadiya Maxamed Xasan, Xasan Xaashi Horri "Majiste", Yismah Maxamed Yismah for their help in supplying and analyzing the Somali data. We also wish to thank Dr. B.W. Andrzejewski for kindly discussing with us several topics of Somali grammar.

\textsuperscript{1} The term is taken from Andrzejewski (1975), which provides the most extensive treatment of this topic of the Somali grammar. Aspects of the syntax and semantics of indicator particles are also dealt with in Hetzron (1965) and Zholkovsky (1966).

\textsuperscript{2} The index \(i\) indicates that the NPs marked by it share the same reference.
With respect to Somali RCs, the process of derivation involves always deletion of the NP. Thus, sentences like

(5) \( \text{gabarta muuska cuntay waa walaashay} \)
the-girl the-banana ate P(article) my-sister

(6) \( \text{igu sallan wiilka yimid} \)
for-me greet the-boy came

are derived from underlying structures like

(7) \( \{\text{gabarta}, \{\text{gabarta, muuska cuntay}\}\} \text{NP} \text{ was walaashay} \)

(8) \( \text{igu salaan} \{\text{wiilka}, \{\text{wiilka, yimid}\}\} \text{NP} \)

through deletion of the NP internal to the embedded S, which is identical to the head-noun, according to claims (a) and (c). Claim (b) is, on the other hand, specific to Somali. In order to see its relevance, we will have to consider systematically the construction of the different types of RCs in Somali. There are four of them which we will label I, II, III and IV, exemplified by the following four sentences:

I. \( \text{wiilka kuu soo qoray waa walaalkay} \)
the-boy you-to hither wrote P my-brother

II. \( \text{warqadda Cali qoray maanta bay tegi doontaa} \)
the-letter Ali wrote now P-she go will

III. \( \text{anigu wiikii Jaamacadda adayay baan la hadlay} \)
I the-boy University was-going P-I with spoke

IV. \( \text{akhri buugagga Cali kuu keenay} \)
read the-books Ali you-to brought

\( \text{‘The boy who wrote to you is my brother’} \)
\( \text{‘The letter that Ali wrote will leave now’} \)
\( \text{‘I spoke to the boy who was going to the University’} \)
\( \text{‘Read the books that Ali brought to you!’} \)

These four types have been established taking into account the two possible functions that a NP can have in a Somali sentence, i.e. subject or non-subject. Sentences of type I are those in which both the

---

3 Somali sentences are quoted following the conventions of the national Somali orthography (see Andrzejewski, 1974). Note that \( c \) stands for a voiced pharyngeal fricative (\( \chi \)), \( x \) for an unvoiced pharyngeal fricative (\( \chi \)), \( kh \) for an unvoiced velar fricative, and \( dh \) for a dental retroflex (\( d \) or \( d \)). In the English glosses P stands for “indicator particle.”

4 Subject NPs are those which determine verb-agreement. All other NPs are not functionally distinguishable in Somali, since all grammatical relations are marked on the verb through a system of prefixes as shown by sentences like

\( \text{wiilkaas baan la hadlay} \)
boy-that P-I with spoke

\( \text{Cali baa toban shillin buug ugu soo ihiyay Farax} \)
Ali P ten shilling book for-with bought Farah

\( \text{‘I spoke with that boy’} \)
\( \text{‘Ali bought a book for ten sh. for Farah’} \)

Notice that the NPs toban shillin and Farax in the second sentence have exactly the same positional and distributional characteristics of the direct object NP buug. They can all occupy the same (pre-and post-verbal) positions and they can cooccur with the same grammatical markers (as we will see below, when we will consider the distribution of the indicator particle buug). Notice further that sentences like

\( \text{Aniga baa u geeyay Maryan Asmed} \)
I P to brought Maryan Ahmed

are perfectly ambiguous between the two readings ‘I took Maryan to Ahmed’ or ‘I took Ahmed to Maryan.’ The two NPs can be equally well interpreted as direct object or locative goal, since the grammatical structure of the sentence does not distinguish them.

It must be mentioned that the dialects of Somali spoken in the northern part of the country also mark the distinction between a subject and a non-subject NP morphologically. This case-marking system is fairly complex in both its formal exponents (involving a combination of segmental and tonal features) and its distribution. It is fully described in Andrzejewski (1964). This system is however absent from the dialects spoken in the coastal and southern regions. In this paper we will disregard it, since all we are
head-noun and the deleted NP are subjects of their respective clauses. In sentences of type II the head-
noun is subject of the main clause, but the deleted NP is a non-subject of the RC. In type III the head-
noun is a non-subject of the main clause, while the deleted NP is subject of the RC. In type IV the
head-noun and the deleted NP are both non-subjects of their respective clauses. The four types can be
schematically represented as follows:

I. S, [S, N, V]_{RC} . . . V
II. S, [S, N, V]_{RC} . . . V
III. S . . . N, [S, N, V]_{RC} . . . V
IV. S . . . N, [S, N, V]_{RC} . . . V

where S stands for a subject NP and N for a non-subject NP; the index _i_ marks the two NPs which are
identical and the slash the NP which is deleted in the process of derivation.

2.2 Evidence of derivation

2.2.1. The behaviour of subject pronouns

The first problem we are going to consider is the possible presence and distribution, inside the RC, of
a pronoun referring to the subject of the RC. Consider first sentences of type II and IV, i.e. sentences
where the deleted NP is a non-subject. The relevant facts are exemplified by the following sentences:

(9) warqadda Cali qoray maanta bay tegi doontaa (see II)
(10) warqadda uu Cali qoray maanta bay tegi doontaa (same meaning)
    ...he...
(11) warqadda Cali uu qoray maanta bay tegi doontaa (same meaning)
(12) warqadda uu qoray Cali maanta bay tegi doontaa
(13) *warqadda qoray Cali maanta bay tegi doontaa
(14) warqadda aad qoray maanta bay tegi doontaa
    ...you wrote (sg.2)...
(15) *warqadda qoray maanta bay tegi doonaa
(16) warqadda aad qorseen maanta bay tegi doontaa
    ...you wrote (pl. 2.)...
(17) *warqadda qorseen maanta bay tegi doonaa
(18) akhri buugaga Maryan kuu keentay
    ‘Read the books that Maryan brought to you!’
    read the-books M. you-to brought
(19) akhri buugaga ay Maryan kuu keentay (same meaning)
    ...she...

going to say applies equally well to both varieties of Somali. The interplay between case-system and RC construction in the
different dialects is described in Antinucci and Puglielli (1978).
(20) akhri buugagga Maryan ay kuu keentay (same meaning)
(21) akhri buugagga ay kuu keentay Maryan (same meaning)
(22) *akhri buugagga kuu keentay Maryan
(23) akhri buugagga aan kuu keenay
     ...I you-to brought (sg.1.)...
(24) *akhri buugagga kuu keenay
(25) *akhri buugagga aan kuu keennay
     ...we you-to brought (pl.1.)...
(26) *akhri buugagga kuu keennay

The pronoun in question (aan, aad, uu, ay,) is the short form of the subject pronoun. Let’s summarize its distribution. When the subject of the RC is 3rd person (masc. (9-13) or fem. (18-22), the pronoun may be present (10-12, 19-21) or absent (9, 18). If, however, a noun subject follows the verb (as in 12 and 21), the pronoun must be obligatorily present [(13) and (22) are, in fact, ungrammatical]. When the subject of the RC is a 1st or 2nd person, either singular or plural (14-17, 23-26), the pronoun must be obligatorily present (as shown by the ungrammaticality of (15, 17, 24, 26).

A second fact to notice is that the short form of the subject pronoun can never occur by itself in main clauses. In those clauses it occurs instead always combined with the indicator particles:

(27) anigu wiilkii baan la hadlay
     I the-boy P-1 with spoke
     ‘I spoke to the boy’
(28) wiilkii baan la hadlay (same meaning)
(29) *anigu wiilkii aan la hadlay
(30) *aniga baa wiilkii aan la hadlay
(31) wiilkii waan la hadlay
     P-1
     (same meaning)*
(32) *wiilkii aan la hadlay
(33) *wiilkii aan waa la hadlay

On the other hand RCs can never contain an indicator particle (cf. II. above):

---

5 The long and the short forms of the subject pronouns are listed in the following table:

<table>
<thead>
<tr>
<th>Person</th>
<th>long form</th>
<th>short form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sg. 1.</td>
<td>anigu</td>
<td>aan</td>
</tr>
<tr>
<td>2.</td>
<td>aadgu</td>
<td>aad</td>
</tr>
<tr>
<td>3m. masc.</td>
<td>isigu</td>
<td>uu</td>
</tr>
<tr>
<td>3f. fem.</td>
<td>iyadu</td>
<td>ay</td>
</tr>
<tr>
<td>Pl. 1.</td>
<td>annagu</td>
<td>aan</td>
</tr>
<tr>
<td>2.</td>
<td>idonku</td>
<td>aad</td>
</tr>
<tr>
<td>3.</td>
<td>iyagu</td>
<td>ay</td>
</tr>
</tbody>
</table>

6 “Same meaning” means here (and in the glosses to follow) “same cognitive meaning”. Different types of indicators (as well as their different positions) convey differences in the topic-focus structure of the sentence. On the semantics of indicators see below section 5.1 and the references quoted in footnote 1.

AAL 7, 89
(34) *warqadda buu Cali qoray maanta bay tegi doontaa
(35) *warqadda Cali buu qoray maanta bay tegi doontaa
(36) *warqadda Cali baa qoray maanta bay tegi doontaa
(37) *warqadda Cali wuu qoray maanta bay tegi doontaa
(38) *warqadda Cali waa qoray maanta bay tegi doontaa

Ungrammatical sentences parallel to (34-38) can be constructed for any of the four types of RCs. The presence of the short form of the subject pronoun in RCs, its distribution and the absence of indicator particles in RCs can all be explained by our claim (b), i.e. that the NP to be deleted in a RC is always marked by the incidator particle baa, which is deleted together with it. In order to show how this can be accomplished we will have to consider briefly the structure of main declarative sentences in Somali. In order to be grammatical every main declarative clause must contain either the indicator particle baa or waa. Thus, sentences like

(39) *ninkii muus cunay
the-man banana ate

(40) *ninkii yimid
the-man came

are ungrammatical. They become grammatical if either baa or waa are appropriately inserted, as in

(41) ninkii baa muus cunay
the-man P banana ate
‘The man ate a banana’

(42) ninkii muus buu cunay

(43) ninkii baa yimid
‘The man came’

(44) ninkii waa yimid

(45) ninkii wuu yimid

The semantic function of these particles is to mark the focus of assertion. baa focalizes the assertion on the NP marked by it, and waa on the verb. Syntactically, waa has to occur at the beginning of the verb-complex, i.e. the verb plus its prefixal clitics (particles and pronouns), while baa has to occur at the end of the whole NP. As sentences (41) and (42) show, baa can mark any NP of the sentence, as long as this NP precedes the verb. We said above that Somali shows a distinction between subject vs non-subject NP (see fn.4). Let us first consider the cases where baa marks a non-subject NP. In these cases baa can or must combine, according to the relative position of the NPs in the sentence, with a pronoun referring to (and agreeing with) the subject of the sentence. This pronoun is the short form of the subject pronoun seen above. The distribution of baa in such cases is shown by the following set of sentences:

(a) if the subject is 3rd person (sing. or pl.):

7 The particle baa has also a variant form ayaa. Andrzejewski (1975) includes two more indicator particles among those which can occur in a main affirmative clause: waxaa and weeye. We did not include them because they can be derived from the basic particles baa and waa.

8 The combinations of baa with the short form of the subject pronouns are the following:

<table>
<thead>
<tr>
<th>baa</th>
<th>+ aan</th>
<th>=baan</th>
</tr>
</thead>
<tbody>
<tr>
<td>baa</td>
<td>+ aad</td>
<td>=baad</td>
</tr>
<tr>
<td>baa</td>
<td>+ wu</td>
<td>=buu</td>
</tr>
<tr>
<td>baa</td>
<td>+ ay</td>
<td>=bay</td>
</tr>
</tbody>
</table>
The Syntax of Indicator Particles in Somali

(46) ninkii muuska buu cunay
    the-man the-banana P-he ate
    'The man ate the banana'

(47) *ninkii muuska baa cunay

(48) muuska buu ninkii cunay

(49) muuska baa ninkii cunay

(50) muuska buu cunay ninkii

(51) *muuska baa cunay ninkii

Schematically:

\[
\begin{array}{ccc}
S & Nbuul/bay & V \\
*S & Nbaa & V \\
Nbuul/bay & S & V \\
Nbaa & S & V \\
Nbuul/bay & V & S \\
*Nbaa & V & S \\
\end{array}
\]

(b) when the subject is 1st or 2nd person (sing. or pl.):

(52) (adigu) muuska baad cunay
    you (sg.) the-banana P-II ate
    'You (sg.) ate the banana'

(53) *(adigu) muuska baa cunay

(54) muuska baad (adigu) cunay

(55) *muuska baa (adigu) cunay

(56) muuska baad cunay (adigu)

(57) *muuska baa cunay (adigu)

Schematically:

\[
\begin{array}{ccc}
S & Nbaan/baad & V \\
*S & Nbaa & V \\
Nbaan/baad & S & V \\
*Nbaa & S & V \\
Nbaan/baad & V & S \\
*Nbaa & V & S \\
\end{array}
\]

Summarizing, when the subject of the sentence is 1st or 2nd person, the short form of the subject pronoun must always accompany baa (compare (52, 54, 56) with (53, 55, 57)). When the subject NP is 3rd person, instead, the pronoun must accompany baa if the subject follows the verb (50 v. 51) or if the NP marked by baa follows the subject (46 v. 47). If the NP marked by baa precedes the subject NP (and this is preverbal), then the pronoun can be either present (as in (48)) or absent (as in (49)).

Let's now go back to our RCs of type II and IV (9-26) and construct their underlying structure according to our three claims, namely that they derive from main clauses in which the NP to be deleted is always marked by baa. When the subject of the RC is 3 person and preverbal (as in (9-11) and (18-20)) there will be three possible underlying main clauses in which the (non-subject) NP to be deleted is marked by baa, as shown in (46-49), i.e.:
(58) \([\text{warqadda}, \text{[Cali warqadda, buu qoray]},]_{\text{NP}} \text{maanta bay tegi doontaa}\)
(59) \([\text{warqadda}, \text{[warqadda, buu Cali qoray]},]_{\text{NP}} \text{maanta bay tegi doontaa}\)
(60) \([\text{warqadda}, \text{[warqadda, baa Cali qoray]},]_{\text{NP}} \text{maanta bay tegi doontaa}\)
(61) \(\text{akhri [buugagga, [Maryan buugagga, bay kuu keentay]}_{\text{NP}}\)
(62) \(\text{akhri [buugagga, [buugagga, bay Maryan kuu keentay]}_{\text{NP}}\)
(63) \(\text{akhri [buugagga, [buugagga, baa Maryan kuu keentay]}_{\text{NP}}\)

Now by applying the deletion rule hypothesized in (c), i.e. by deleting the NP inside the RC together with the particle \(\text{baa}\), we are able to derive the correct sentences, automatically. Applied to (58), the deletion rule will leave the subject pronoun \(\text{uu}\) between the subject NP and the verb, thus giving rise to (11). Applied to (59), it will leave the pronoun \(\text{uu}\) before the subject NP, thus giving rise to (10). Finally, when the rule is applied to (60), nothing will be left (since \(\text{baa}\) in this case is not accompanied by the subject pronoun) and (9) will be produced. The relevant part of the derivation can be sketched in the following way (where slashes mark the portion subject to the deletion operation):

(58) \(\text{[Cali warqadda baa + uu qoray]} \rightarrow \text{[Cali uu qoray]} \quad (=11)\)
(59) \(\text{[warqadda baa + uu Cali qoray]} \rightarrow \text{[uu Cali qoray]} \quad (=10)\)
(60) \(\text{[warqadda baa Cali qoray]} \rightarrow \text{[Cali qoray]} \quad (=9)\)

In the same way, (61) will give rise to (20), (62) to (19) and (63) to (18).

Consider now the cases where the subject is post-verbal. Here there is only one possible main clause construction with \(\text{baa}\) (as shown by (50-51)); correspondingly there is only one possible underlying structure from which a RC can be derived, i.e.

(64) \([\text{warqadda, [warqadda, buu qoray Cali]}_{\text{NP}} \text{maanta bay tegi doontaa}\)
(65) \(\text{akhri [buugagga, [buugagga, buu keentay Maryan]}_{\text{NP}}\)

while structures like

(66) \(*[\text{warqadda, [warqadda, baa qoray Cali]}_{\text{NP}} \text{maanta bay tegi doontaa}\)
(67) \(*[\text{akhri [buugagga, [buugagga, baa kuu keentay Maryan]}_{\text{NP}}\)

will be ill-formed. The deletion rule will again automatically obtain the correct results. It will derive (12) from (64) and (21) from (65); the ill-formedness of (66) and (67) will result in the ungrammaticality of (13) and (22).

When the subject of a main clause is 1st or 3rd person, \(\text{baa}\) must be accompanied by the subject pronoun, as shown in (52-57). Thus, underlying structures like

(68) \([\text{warqadda, [warqadda, baad qoray]}_{\text{NP}} \text{maanta bay tegi doontaa}\)
(69) \([\text{warqadda, [warqadda, baad qorooten]}_{\text{NP}} \text{maanta bay tegi doontaa}\)
(70) \(\text{akhri [buugagga, [buugagga, baan kuu keenay]}_{\text{NP}}\)
(71) \(\text{akhri [buugagga, [buugagga, baan kuu keenenay]}_{\text{NP}}\)

will be well-formed, while underlying structures like
will be ill-formed. Consequently, sentences like (14), (16), (23), (25), respectively derived from (68-71) will be grammatical, while sentences like (15), (17), (24), (26) will be ungrammatical as a result of the ill-formedness of (72-75). As it can be seen, by assuming that RCs are derived from main baa-clauses where the NP identical to the head-noun is always marked by baa and deleted together with baa, we are able to explain simultaneously the fact that in RCs indicator particles can never occur (since they are deleted), the fact that the short form of the subject pronoun occurs by itself (since it comes out as a residue of the deletion operation), and the distribution of the subject pronoun inside the RC. Furthermore, notice that the corelation between main baa-sentences and the position of the subject pronoun inside the RC, explained by our hypothesis, extends far beyond the few cases we quoted. For example, in RCs where more NPs are present, such as

(76)  buugagga Cali wiilka toban shilin ugu soo iibiyay waa kuwaas
the-books Ali the-boy ten shilling for-with hither bought P those
'The books that Ali bought for ten sh. for the boy are those'

the subject pronoun referring to Cali can alternatively appear in any preverbal position:

(77)  buugagga (uu) Cali (uu) wiilka (uu) toban shilin (uu) ugu soo iibiyay waa kuwaas

All four sentences of (77) are perfectly grammatical. Now the main clause underlying the RC of (77) can be constructed in any of the following ways:

(78)  buugagga buu Cali wiilka toban shilin ugu soo iibiyay
(79)  Cali buugagga buu wiilka toban shilin ugu soo iibiyay
(80)  Cali wiilka buugagga buu toban shilin ugu soo iibiyay
(81)  Cali wiilka toban shilin buugagga buu ugu soo iibiyay

Again, (78-81) are perfectly grammatical sentences. The deletion rule will thus automatically produce all the possibilities of (77).

Up to now, we have been considering only RCs of type II and IV. However, our analysis of RCs applies equally well to RCs of type I and III, i.e. those in which the deleted NP is the subject of the relative clause. Consider the following sentences:

(82)  gabarta muuska cuntay waa walaashay
The-girl the-banana ate P my-sister
(= (15)) 'The girl who ate the banana is my sister,'

(83)  *gabarta ay muuska cuntay ta walaashay

(84)  *gabarta muuska ay cuntay ta walaashay

(85)  anigu wiilkii Jaamacadda adayay baan la hadlay
I the-boy University was-going P-I with spoke
(= III) 'I spoke to the boy who was going the University'

(86)  *anigu wiilkii uu Jaamacadda adayay baan la hadlay
(87) *anigu wiilki Jaamacadda uu adayay baan la hadlay

In these types of RCs the subject pronoun can never be present, as shown by the ungrammaticality of (83-84) and (86-87). Consider now main sentences where baa marks the subject NP:

(88) ninka baa muuska cunay  
the-man P the-banana ate  

(89) *ninka buu muuska cunay

(90) muuska ninka baa cunay

(91) *muuska ninka buu cunay

When baa marks the subject NP, it can never combine with the subject pronoun. Since RCs of types I and III are those in which the subject NP is deleted, according to our claim (b) the main clauses from which they will always have their subjects marked by baa. Consequently they will never allow the subject pronoun to be combined with baa and this explains why we can never find the subject pronoun in these types of RCs. Sentences like (82) and (85) have only one possible underlying source, namely

(92) [gabarta, [gabarta, baa muuska cunay],]NP waa walaashay

(93) anigu [wiilki, [wiilki baa Jaamacadda adayay],]NP baan la hadlay

Consequently they will never allow the subject pronoun to be combined with baa and given our analysis of RCs, the ungrammaticality of (83-84) and (86-87), is automatically predicted by the ungrammaticality of:

(94) *gabarta bay muuska cunay

(95) *muuska gabarta bay cunay

(96) *wiilki buu Jaamacadda adayay

(97) *Jaamacadda wiilki buu adayay

which should be their underlying sources.

2.2.2. Subject-Verb agreement

Further evidence for our hypothesis comes from the examination of the form of the verb found in RCs. The crucial feature is here the different types of subject-verb agreement manifested in the different types of RCs. In RCs of type II and IV, the subordinate verb shows a complete agreement-pattern with its subject:

(98) warqadda uu Cali qoray maanta bay tegi doontaa  
the-letter he Ali wrote now P-she go will  

(=II) ‘The letter that Ali wrote will leave now’

(99) warqadda ay Maryan qortay maanta bay tegi doontaa

(100) warqadda ay wiilashaasi qoreen maanta bay tegi doontaa
...those-boys...

(101) akhri buugagga uu Cali kuu keenay  
read the-books he Ali you-to brought  

(=IV) ‘Read the books that Ali brought to you!’

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(102) akhri buugaga ay Maryan kuu keentay
(103) akhri buugaga ay wiialashe kuu keenene
     \_\_\_those-boys_\_

Compare also the subject-verb agreements in (14), (16), (23), (25). Notice in particular, that when the subject is Sg. 3, the verb shows the Sg. 3 ending (masculine -ay in (98), (101) and feminine -ay in (99), (102), and when the subject is Pl. 3 the verb shows the Pl. 3 ending (-een in (100), (103)). In RCs of type I and III, instead, the subordinate verb shows a partial agreement-pattern with its subject:

(104) wiilka kuu soo qoray waa walaalkay  (=1) ‘The boy who wrote to you is my brother’
    the-boy you-to brother wrote P my-brother

(105) wiilasha kuu soo qoray waa saaxiibaday
    the-boys...my-friends
    ‘The boys who wrote to you are my friends’

(106) gabarta talyaaniga bartaan la hadlay
    the-girl Italian taught P-I with spoke
    ‘I spoke to the girl who taught Italian’

(107) gabdhaha talyaaniga bartaan la hadlay
    the-girls Italian taught P-I with spoke
    ‘I spoke to the girls who taught Italian’

When the subject is Sg.3, the verb agrees with it (Sg.3m -ay in (104) and Sg.3f -ay in (106), but when the subject is Pl.3, as in (105, 107), the verb shows the Sg.3m ending (-ay, in (105, 107); compare this ending with that of (100) and (103)).

Again, this fact receives an automatic explanation if we adopt our hypothesis on the derivation of RCs. In main declarative clauses there is a difference in the subject-verb agreement pattern according to whether the indicator particle baa marks a subject NP or a non-subject NP, as the following sentences show (the order is Sg.1., Sg.2., Sg.3m., Sg.3f., Pl.1., Pl.2., Pl.3.; -u is the non-focused subject case ending of the article, the sentences mean X ate the banana:

(108) a. anigu muuska baan cunay  b. aniga baa muuska cunay
(109) a. adigu muuska baad cunay  b. adiga baa muuska cunay
(110) a. isagu muuska buu cunay  b. isaga baa muuska cunay
(111) a. iyadu muuska bay cunay  b. iyada baa muuska cunay
(112) a. annagu muuska baan cunay  b. annaga baa muuska cunay
(113) a. idinku muuska baad cuneen  b. idinka baa muuska cunay
(114) a. iyag muuska bay cuneen  b. iyaga baa muuska cunay

When baa marks the subject NP (b), the Sg. 2., Pl.2., and Pl.3., verb-endings have always the same form as the Sg. 3m.; these persons are instead kept distinct when baa marks a non-subject NP (a).\(^9\)

Now, if, as we assume, RCs are derived from main clauses where the NP to be deleted is always marked by baa, then RCs of type II and IV will be derived from main clauses where a non-subject is marked by baa (since in these types the NP identical to the head-noun is a non-subject of the RC), while RCs of type I and III will be derived from main clauses where a subject is marked by baa (since in these types the NP identical to the head-noun is subject of the RC). Consequently, the main clauses underlying RCs of type II and IV will show the complete subject-verb agreement pattern, while the main clauses underlying RCs of type I and III will show the partial agreement-pattern, as described for the RC type I and III.

\(^9\) Besides the subject-verb agreement pattern, there are other differences in the verbal forms of the two constructions. They are described in Andrzejewski (1964), who calls “extensive paradigm” the verbal forms appearing when baa marks a non-subject NP and “restrictive paradigm” those appearing when baa marks a subject NP.
clauses underlying RCs of type I and III will show the partial subject-verb agreement pattern. Thus, sentences like (100) and (103) are derived from

(115) [warqadda, warqadda, bay wiilashaasi qoreen], manta bay tegi doonaa

(116) akhri [buugagga, buugagga, bay wiilashaasi keeneen], manta

Since in both clauses the plural subject *wiilashaasi* is not marked by *baa*, the verb agrees with it as in the a-sentences (114), *qoreen*, *keeneen*. Sentences like (105) and (107) are derived from

(117) [wiilasha, wiilasha, baa kuu soo qoray], waa saaxiibaday

(118) [gabdhaha, gabdhaha, baa talyaaniga baray], baan hadlay

Since in these clauses the plural subject *wiilasha*, *gabdhaha* is marked by *baa*, the verb agrees with it as in the b-sentences (114), *qoray*, *baray*. Thus, the subject-verb agreement pattern found in RCs constitutes independent evidence in favour of our analysis of RCs.

3. SUBORDINATE CLAUSES

We wish now to consider the construction of (what in other languages are) non-relative subordinate clauses, i.e. complement and adverbial clauses. Given our analysis of RCs, we can show that in Somali all subordinate clauses are syntactically construed as relative clauses, and that, therefore, they are all RCs of type IV. Evidence for this claim is not hard to find. Let's consider some examples of complement and adverbial subordinate clauses:

(119) *in Cali yimaado baan doonayaad*
that Ali comes P-I want

'1 want Ali to come'

(120) *goorta qoraxdu dhacdo imow*
when the-sun sets come

'Come when the sun sets!'

(121) *sida Axmed doonayaa u qor ereyga*
As Ahmed wants at write the-word

'Write the word as Ahmed wants it!'

First of all notice that all these clauses are introduced by an element which is a real noun (*in* means 'part', *goor* means 'time', *si* means 'manner'), as shown by the fact that it can be modified by the definite article (giving *inta*, *goorta*, *sida*). This noun acts as the head-noun of a RC. Notice further that these clauses can contain the short form of the subject pronoun, as RCs of type II and IV, and that its distribution is exactly the same as in RCs. Specifically, when the subject is 3rd person, the pronoun can be absent, as in (119), (120), (121), or present, and in the last case it can occupy any preverbal position:

(122) *in uu Cali uu yimaado baan doonayaad*

(123) *in Cali uu yimaado baan doonayaad*

(124) *goorta ay qoraxdu dhacdo imow*

(125) *goorta qoraxdu ay dhacdo imow*

(126) *sida uu Axmed doonayaa u qor ereyga*

(127) *sida Axmed uu doonaya u qor ereyga*
When the subject of the subordinate clause is 1st or 2nd person the pronoun is obligatory:

(128) *in aad timaado baan doonayaa
      ‘I want you to come’

(129) *in timaado baan doonayaa

(130) sida aan doonayna u qor ereyga
      ‘Write the word as we want it!’

(131) *sida doonayna u qor ereyga

In view of these facts, subordinate clauses like (119-130) are to be derived, in a way completely parallel to RCs, from underlying structures like the following (underlying, respectively, (119), (124), (127)):

(132) [in, [in, baa Cali yimaado]s NP baan doonayaa

(133) [goorta, [goorta, bay qorraxdu dhacdo]s NP imow

(134) [sida, [Axmed sida, buu doonaya]s NP u qor ereyga

In these structures the NPs in, goorta, sida are head-nouns of a RC construction. NPs identical to them are contained in the RC and are always marked by baa. In the process of derivation these are deleted together with baa by the ordinary deletion-rule operating in the derivation of RCs. Since, on the other hand, NPs like in, goorta, sida will never by either subject of the main clause or subject of the RC, all complement and adverbal subordinate clauses will be RCs of type IV.

The examination of the subject-verb agreement pattern confirms this analysis. If complement and adverbial subordinate clauses are RCs of type IV, we predict that the subordinate verb will agree with its subject according to the complete pattern, and in fact when the subject is Pl. 3 the verb shows the Pl. 3 ending (-aan):

(135) in ay wiilashassi yimaadaa baan doonayaa

(136) sida ay wiilashaasi doonayaan u qor ereyga

4. NOUN MODIFIERS

4.1 Types of noun modifiers

Besides RCs, there are in Somali three other kinds of constructions that modify a head-noun. They are exemplified by the following NPs:

(137) a. guuriga macallinka
      the-house the-teacher

b. macallinka guurigisaa
      the-teacher his-house

(138) a. nin wanaagsan
      man good

b. wiilka dheer
      the-boy tall

(139) a. naag dug ah
      woman old-person is

      ‘the house of the teacher’

      ‘a good man’

      ‘the tall boy’

      ‘an old woman’
b. *miis qori ah*

table wood is

"a wooden table"

The type exemplified in (137) is the genitive-possessive construction. When a noun stands in the genitive-possessive relation to the head-noun it can either follow the head-noun (as in (a)), or precede it, in which case the head-noun acquires the suffixal possessive pronoun, as in (b). These constructions and the formal means marking them have been described by Andrzejewski (1954, 1975), and we will not say anything further on them.

We would like instead to consider the head-modifier constructions appearing in (138) and (139). In the type exemplified by (138) the head-noun is modified by a (so-called) "adjective", which follows it; in the type exemplified by (139) the head-noun is modified by a noun, which, however, does not stand in the genitive-possessive relation to it. We want to consider these two constructions from the point of view of our analysis of RCs.

### 4.1.1. Noun-"adjective"

Given this analysis, we can argue that constructions of the type of (138) are all relative clauses, and that, consequently, there is no need of postulating in Somali a formal class of adjectives as distinct from the category of verbs. Notice in fact what happens when "adjectives" occur as predicates in main clauses. As for verbs, there is a difference in their conjugation according to whether or not the subject NP is marked by *baa*: (the order is as in (108-114): sentences mean "X is good":

\[(140)\] a. *anigu waa wanaagsan ahay* 
\[(141)\] a. *adigu waa wanaagsan tahay* 
\[(142)\] a. *isagu waa wanaagsan yahay* 
\[(143)\] a. *iyadu waa wanaagsan tahay* 
\[(144)\] a. *annaqo waa wanaagsan nahay* 
\[(145)\] a. *idinku waa wanaagsan tahay* 
\[(146)\] a. *iyagu waa wanaagsan yihii* 

\[(147)\] a. *anigu waa wanaagsanaa* 
\[(148)\] a. *adigu waa wanaagsanayd* 
\[(149)\] a. *isagu waa wanaagsanaa* 
\[(150)\] a. *iyadu waa wanaagsanayd* 
\[(151)\] a. *annaqo waa wanaagsanayd* 
\[(152)\] a. *idinku waa wanaagsanaydeen* 

\[(140-146)\] b. *aniga baa wanaagsan* 
\[(147-153)\] b. *adiga baa wanaagsanaa* 
\[(149)\] b. *isaga baa wanaagsanaa* 
\[(150)\] b. *iyada baa wanaagsanaa* 
\[(151)\] b. *annaga baa wanaagsanayd* 
\[(152)\] b. *adinka baa wanaagsanaa*

Notice further that in the past tense equivalents of (140-146), where the endings of the verb 'to be' for the b-sentences remain, we have the typical difference in the pattern of agreement between subject and verb, already seen for verbs:

\[(147)\] b. *aniga baa wanaagsanaa* 
\[(148)\] b. *adiga baa wanaagsanaa* 
\[(149)\] b. *isaga baa wanaagsanaa* 
\[(150)\] b. *iyada baa wanaagsanaa* 
\[(151)\] b. *annaga baa wanaagsanayd* 
\[(152)\] b. *adinka baa wanaagsanaa*

---

10 Since in sentences (140-146) and (147-153) there is only one NP (and *baa* marks only NPs), we have to use the indicator particle *waa* in order to show their behavior when the subject NP is not marked by *baa*. This is not a problem, however, because affirmative sentences containing *waa* always determine the form of the verb in exactly the same way as affirmative sentences where *baa* marks a non-subject NP (see Andrzejewski, 1975).

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(153) a. iyagu waa wanaagsanayeen b. iyaga baa wanaagsanaa

When *baa* marks the subject NP the distinctions among Sg. 2, Sg. 3m, Pl. 2, and Pl. 3., are neutralized, exactly as it happens in verbal sentences. In view of the syntactic parallelism between (147a-153a) and (147b-153b) on the one side, and (140a-146a) and (140b-146b) on the other, we propose to treat all so-called “adjectives” as verbs; the paradigm given in (140b-146b) is the special present tense of this kind of verb when their subject is marked by *baa*.

Modifier constructions like those in (138) can then be treated as ordinary relative clauses, since they will be automatically generated by our general rules for the derivation of RCs. As all RCs, they will be derived from main clauses where the NP to be deleted is marked by *baa*. Since in these constructions this NP will always be the subject of the clause, the corresponding RCs will all belong to type I or III, and consequently their verb will show the partial subject-verb agreement pattern. Thus NPs like (138a) and (138b) will be derived from underlying structure like

(154) [nin, [nin, baa wanaagsan]]*

(155) [willka, [willka, baa dheer]]*

The usual deletion rule will delete the NP identical to the head-noun together with *baa*, thus producing (138a-b).

### 4.1.2. Noun-noun -ah

The same analysis can be extended to modifier constructions of the type shown in (139), i.e. they can all be treated as RCs of type I or III. In fact, if we turn the NP into a predicative main clause, we can again observe a difference in the verbal form, according to whether or not the subject of the clause is marked by *baa*, (the sentences mean ‘X is old’):

(156) a. anigu duq baan ahay b. aniga baa duq ah

(157) a. adigu duq baad tahay b. adiga baa duq ah

(158) a. isagu duq buu yahay b. isaga baa duq ah

(159) a. iyadu duq bay tahay b. iyada baa duq ah

(160) a. annagu duq baan nahay b. annaga baa duq ah

(161) a. idinku duq baad tiihin b. idinka baa duq ah

(162) a. iyagu duq bay yihiin b. iyaga baa duq ah

In the past tense the typical difference in the pattern of agreement between subject and verb emerges again:

(163) a. anigu duq baan ahaa b. adiga baa duq ahaa

(164) a. adigu duq baad ahayd b. adiga baa duq ahaa

(165) a. isagu duq buu ahaa b. isaga baa duq ahaa

(166) a. iyadu duq bay ahayd b. iyada baa duq ahayd

(167) a. annagu duq baan ahayn b. annaga baa duq ahayn

(168) a. idinku duq baad ahaydeen b. idinka baa duq ahaa
(169)  a. iyago duq bay ahayeen  
       b. iyaga baa duq ahaa

As it can be seen, all these sentences are ordinary verbal clauses whose main verb is the verb ahaansho 'to be'. Again on the basis of the syntactic parallelism between (163-169) and (156-162), we can say that the form ah in (163b-169b) is the special present tense form of the verb 'to be' when its subject is marked by baa. We can now treat modifiers like those in (139) as ordinary RCs where the NP subject is deleted. Consequently, we will derive them from underlying structures like

(170)  [naag, [naag, baa duq ah]_3]_{NP}

(171)  [miis, [miis, baa qori ah]_3]_{NP}

Since in these RCs the subject NP is marked by baa the verb "to be" appears in its special form ah. Application of the deletion rule will produce (139a-b).

5. SOME SEMANTIC CONSIDERATIONS: A PROBLEM FOR LINGUISTIC THEORY

5.1. Semantic function of indicators

We said above that indicator particles occurring in a Somali main declarative clause mark the focus of assertion. Thus, while

(172)  ninkii waa yimid

can be glossed as 'the man came,' a sentence like

(173)  ninkii baa yimid

is more accurately glossed as 'It is the man who came,' i.e. by means of a cleft construction focusing the assertion of the NP rather than on the verb as in (172). Similarly, sentences like

(174)  ninkii muuska buu cunay

(175)  ninkii baa muuska cunay

correspond, respectively, to 'It is the banana that the man ate' and 'It is the man who ate the banana.' This property of indicator particles can be formally demonstrated by creating appropriate test-frames for the use of the different sentences. Thus, to a question like

(176)  Yaa muuska cunay?  
       'Who ate the banana?'

one can only answer with

(177)  Cali baa muuska cunay
       Ali P the-banana ate

while a sentence like

(178)  Cali muuska buu cunay
       Ali the-banana P-he ate

would be totally inappropriate and impossible to use in this context. On the other hand, to a question like
the only possible answer is (178), while (177) would be totally inappropriate. Questions like (176) and (179) create a controlled context such that only one piece of the information conveyed by the following sentence is new while the rest is already given. Therefore, we can say that baa has to mark the piece of contextually new information conveyed by a sentence, and it cannot mark a piece which is already contextually given. Using traditional terms, we can say that baa marks the comment, focus, or theme of the sentence, as opposed to its topic or theme.

5.2. Topic, focus and relativization

In our analysis of RCs we presented ample evidence, based on purely formal (i.e., non-semantic), grounds, that in a Somali RC the deleted NP must always be marked by baa. In view of the semantic function of the NPs marked by baa, this finding constitutes a puzzling problem for the general theory of RC construction.

Kuno (1973) in his analysis of RC construction in Japanese shows that in this language RCs are to be derived from main clauses through deletion of a NP identical to the head-noun, in a way parallel to the derivation we postulated for Somali RCs. But he also argues that the deleted NP is in Japanese always marked by the particle wa. Thus, a NP like

(180) Hanako ga yonda han
    H. subj. read book

is to be derived from an underlying structure like

(181) [(Hanako ga hon, wa yonda), hon],top

through deletion of the NP internal to S, hon, together with the particle wa. In Japanese main clauses the particle wa marks the NP which is topic or theme of the sentence. Thus, Kuno’s analysis shows that in RCC the NP to be deleted has to be the topic of the subordinate clause. This finding runs exactly opposite to what we found in Somali RCC, namely, that the NP to be deleted has to be the comment or focus of the subordinate clause.

The problem is not limited to Japanese RCC. In a later paper, Kuno (1976) shows that his claim about the topicality of the deleted NP holds also in English, where the processes involved in the derivation of a RC are different from Japanese or Somali. Furthermore, this generalization seems to be a good candidate for a linguistic universal. Keenan and Comrie (1977) in a cross-linguistic study of relativization noted that different languages have different capabilities of constructing a RC. The fundamental variable affecting this capability is the grammatical function played in the RC by the NP identical to the head-noun, i.e., the NP which is deleted or pronominalized. In this respect the following hierarchy of functions seems to operate:


The hierarchy is interpreted in the following way: most languages (perhaps all) allow a RC to be constructed when the NP identical to the head-noun is subject of the RC; fewer languages allow RCC also when this NP is direct object of the RC; still fewer languages also when this NP is indirect object of the RC; and so on. Furthermore, if a language allows a RC to be constructed, for example, on the indirect object, then it also necessarily allows RCC on the direct object and on the subject; if a language allows a Posses. NP to be relativized, then it also allows RCC on the object of preposition, indirect object, direct object and subject; an so on. This finding suggests that it is universally easier to construct
a RC if the NP involved is subject of the RC than if it is direct object; the direct object NP, in turn, is
easier than the indirect object; and so on.

Kuno correctly observes that this hierarchy is a “thematicity” hierarchy: the subject NP is usually the
theme or topic of a sentence, and certainly a direct object NP is more thematic than a possessive NP.
The interpretation of Keenan and Comrie’s hierarchy in terms of thematic relations has been
independently confirmed in a study of Italian clitic pronominalization (Antinucci, 1977).
Pronominalization phenomena are in many respects similar to deletions (as we saw, RCC can involve
either of them); thus, the general conclusion seems to be that operations like pronominalizing or
deleting are strongly dependent on the thematic relation of the NP involved, and, more specifically, that
they tend to affect a thematic or topical NP and not a rhematic or focused NP.

The Somali case runs completely opposite to this apparently universal trend. Not only the NP deleted
in the derivation of RCs needs not to be the theme of the clause, but it has actually to be its focus. We
have no solution to suggest and will simply leave this as a problem for future research.

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