

What Tense and Aspect tells us about SVCs in Akan

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Afranaph Project Development Workshop III

Dec 12 - 15, 2019

1 Introduction

☞ Akan (Niger-Congo) has multi-verbal constructions with no overt coordinator or subordinator

- (1) a. Kofi **tɔ-ɔ** aduane **di-i**.
Kofi buy-PST food eat-PST
'Kofi bought food and ate it'
b. Kofi **frɛ-ɛ** Ama **soma-a** no.
Kofi call-PST Ama send-PST 3SG
'Kofi call Ama and sent her.'

- These constructions have been referred to as serial verb constructions
- The goal of this talk is to shed more light on the nature of these constructions by looking at the distribution of tense and aspect.

Road Map

☞ Brief introduction about SVCs

☞ Martin's (2010) analysis of SVCs in Akan

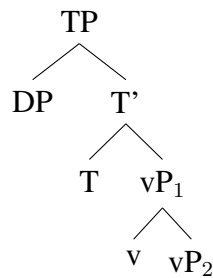
☞ My analysis: I will propose the SVCs are covert coordination involving *vP*.

2 Serial Verb Constructions (SVCs)

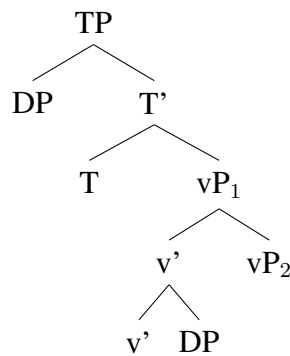
- There is no unified definition of SVCs.
- But there are assumed to have the following properties
 - Contain at least two (main) verbs in what appears to be a single clause, (Veenstra 1993).

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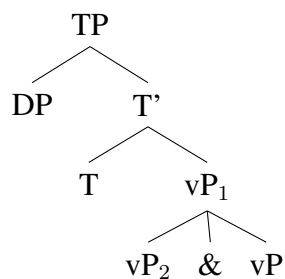
- Have only one (phonologically non-null) subject
- Have no overt subordination or coordination markers (Jansen et al. 1978 and Sebba 1987)
- They have a single event interpretation
- Analyses of SVCs can be divided into three broad categories
 - COMPLEMENTATION (Baker 1989, Baker & Stewart 2002, Collins 1997, Aboh 2009)



- ADJUNCTION (Baker and Stewart 2002)



- COORDINATION (Agbedor 1994, Muysken and Veenstra 2006).



- One of the main arguments against the coordination analysis is that you can extract out of SVCs.
- For instance, Akan allow predicate clefting of the V₁

- (2) a. Kofi **tɔ-ɔ** aduane **di-i**.
 Kofi buy-PST food eat-PST
 'Kofi bought food and ate it.'
- b. Tɔ na Kofi **tɔ-ɔ** aduane **di-i**.
 buy FOC. Kofi buy-PST food eat-PST
 'Kofi BOUGHT food and ate it.'

2.1 SVCs in Akan

- SVCs in Akan differ from SVCs in closely related languages such as Ewe (Collins 1997)
- Tense, aspect and negation morphology occurs on all verbs

- (3) a. Kofi tɔ-ɔ aduane di-i.
 Kofi buy-PST food eat-PST
 'Kofi bought food and ate it'
- b. Kofi a-n-tɔ aduane a-n-di.
 Kofi PST-NEG-buy food PST-NEG-eat
 'Kofi did not buy food to eat.'

- Collins (1997) distinguishes Ewe SVCs and covert coordination by the presence or absence of tense on all the verbs

- (4) a. Ekpe a fo kɔpo yi xɔ-me. Ewe SVC
 rock FUT hit cup go room-in
 'A rock will hit a cup into the room.'
 'A rock will hit a cup, and the cup will go into the room.'
- b. Ekpe a fo kɔpo a yi xɔ-me. CC
 rock FUT hit cup FUT go room-in
 'A rock will hit a cup, and the rock will go into the room.'

- Though is marked on all verbs, tense and polarity they have to match

– **Same tense specification**

T_{past}	$V_1[T_{past}]$	$V_2[T_{past}]$
T_{neg}	$V_1[T_{neg}]$	$V_2[T_{neg}]$

- For aspect and future, the subsequent verbs all have the **a-** morpheme

– **a- on non-initial verbs**

FUT	$V_1[T_{fut}]$	$V_2[T_{a-}]$
PROG	$V_1[T_{prog}]$	$V_2[T_{a-}]$
PERF	$V_1[T_{perf}]$	$V_2[T_{a-}]$

- SVCs do not have object sharing, a property argued by Baker (1989) to be a crucial characteristics of SVCs.
- Apparent object sharing results from unconditions on final pronouns in Akan.
 - Inanimate final objects pronouns are not realized.
 - Animate object pronouns are realized as in (5-b).

- (5) a. Kofi tɔ-ɔ aduane di-i.
 Kofi buy-PST food eat-PST
 'Kofi bought food and ate it'

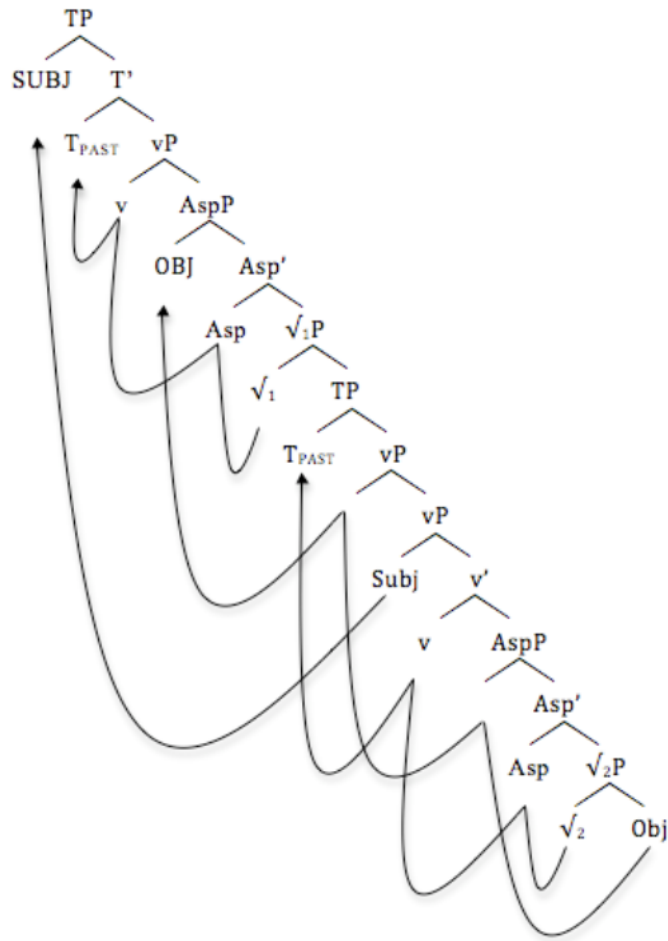
- b. Kofi kye-e akokɔ no ku-u no.
 Kofi catch-PST hen DEF kill-PST 3SG
 'Kofi caught a hen and killed it.'

- Martin (2011) choose to refer to these clauses as multi-verbal clauses instead of SVCs
- His analyzed as multi-clausal instead of mono-clausal constructions
- I continue to refer to them as SVCs
- In the next section, I will discuss Martin's analysis of these constructions in Akan, and show why it does not adequately account for all the data.

3 Martin 2011 Analysis

☞ Martin (2011) argues that Akan SVCs involve complementation

- Following Kandybowicz (2010,2015): AspP is merged inside vP.
- The vP-internal aspect corresponds to “inner aspect” (Travis 1991, 2010, Pearson 2001)
- However, inner aspect in Akan is not lexical/situation aspect but viewpoint aspect.
- vP₂ has an extended projection to TP
- vP₁ is a functional head that does not assign thematic roles to it's complement.



☞ Motivations for this analysis

- Vowel lengthening is an indication of V-T movement (Kandybowicz 2010,2015)
- Following Boadi (2008), he assumes that **a-** in (6) is $T_{non-finite}$

(6) Kofi bε-to aduane **a**-di.
 Kofi FUT-buy food CONS-eat
 ‘Kofi will buy food and eat.’

☞ Disadvantages of the analysis

- Account for the restriction on T_2 ; it is either same as T_1 or **a-**
- Other constructions that have multiple TPs have no such restriction

(7) a. Kofi ka-a se Ama re-da. COMPLEMENT CLAUSES
 Kofi say-PST COMP Ama PROG-sleep
 ‘Kofi said Ama was sleeping’
 b. Kofi ba-e nanso na Ama a-da. OVERT COORDINATION
 Kofi come-PST CONJ PST Ama PERF-sleep
 ‘Kofi said Ama was sleeping’

- It does not account for the relationship between aspect and the non-finite.

- (8) a. Kofi bɛ-tɔ aduane a-di
 Kofi FUT-buy food CONS-eat
 ‘Kofi will buy food and eat.’
- b. Kofi re-tɔ aduane a-di
 Kofi PROG-buy food CONS-eat
 ‘Kofi is buying food to eat.’
- c. Kofi a-tɔ aduane a-di
 Kofi PERF-buy food CONS-eat
 ‘Kofi has bought food and eaten.’

- Explain most of the data but not all

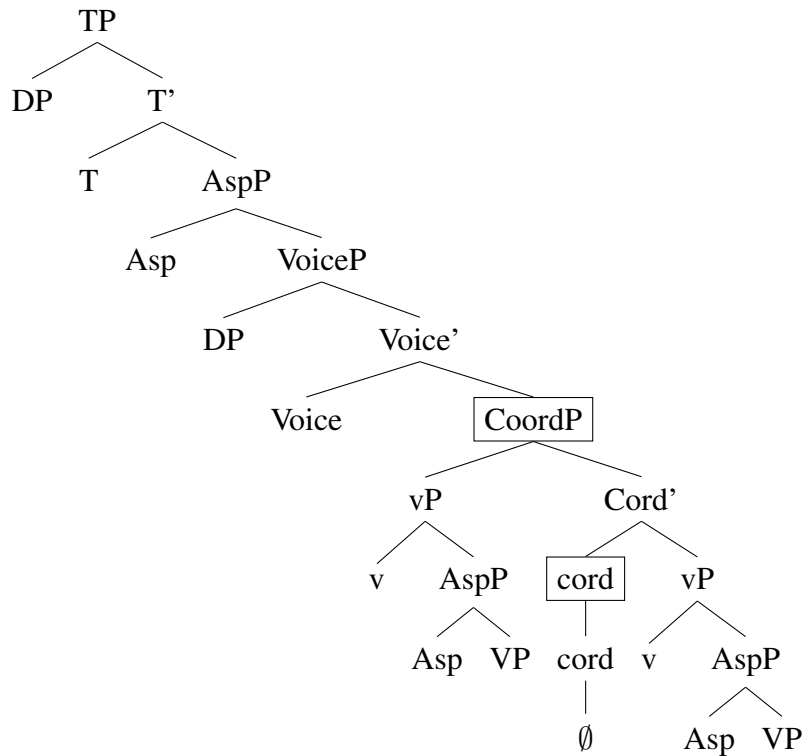
4 SVCs as covert coordination

- ☞ Contra Martin(2011), I argue that Akan SVCs involve covert coordination of vPs. Subject are merged in the spec of VoiceP. There is, therefore, only one subject and tense positions in SVCs.

4.1 The analysis

- ☞ SVCs in Akan involve coordination of vP

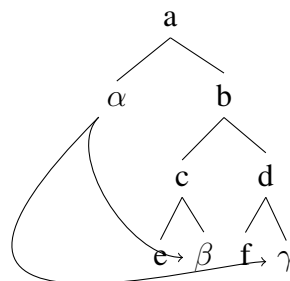
- I am assuming that subjects are merged in **voiceP**, (Kratzer 1996)
- I maintain Kandybowicz’s (2010, 2015) aspect inside vP.
- But for semantic composition reasons, I posit another aspect outside vP, **outer aspect**
 - Aspect is a event quantifier, $\langle\langle et \rangle\langle it \rangle\rangle$
 - Aspect cannot combine with the type of VP
 - Aspect has to be interpreted higher than where it is merged



☞ Though every verb is marked for tense, they have to be the same.

- (9) a. Kofi **tɔ-ɔ** aduane **di-i**.
 Kofi buy-PST food eat-PST
 'Kofi bought food and ate it'
- b. #Kofi **tɔ-ɔ** aduane be-**di**.
 Kofi buy-PST food FUT-eat

- I adopt Pesetsky & Torrego's (2007) theory of Agree as feature sharing.
- I adapt Hiraiwa's (2001) Multiple Agree theory.
- **Parallel Agree** that allows a single probe to simultaneously Agree with all matched goals at the same derivational point. There is no c-command between the goals.



☞ Aspect and Future morphology, on the other hand, shows up on first verb and sequent verbs have the **a-** morpheme.

- (10) a. Kofi re-tɔ aduane a-di.
 Kofi PROG-buy food CONS-eat
 ‘Kofi is going to buy food to eat.’
 b. Kofi a-tɔ aduane a-di.
 Kofi PREF-buy food CONS-eat
 ‘Kofi bought food and ate it.’
 c. Kofi bɛ-tɔ aduane a-di.
 Kofi FUT-buy food CONS-eat
 ‘Kofi will buy food to eat.’

- I argue that Asp outside the *v*P Agrees with *v* in the same way as T.
- **a-** is the spell-out of non-initial aspect/future
- It is an idiosyncrasy in Akan.

☞ There is a single subject in SVCs

- (11) #Kofi tɔ-tɔ aduane Ama di-i.
 Kofi buy-PST food Ama eat-PST

☞ Advantages of this analyses

- Account for why clausal complements and TP coordination does not have the same tense and aspect restrictions.
- Accounts for the relationship between aspect and **a-**.

4.2 Overt Coordination in Akan

☞ Further evidence for the analysis in the previous section is the distribution of tense and aspect in some overt coordinate constructions.

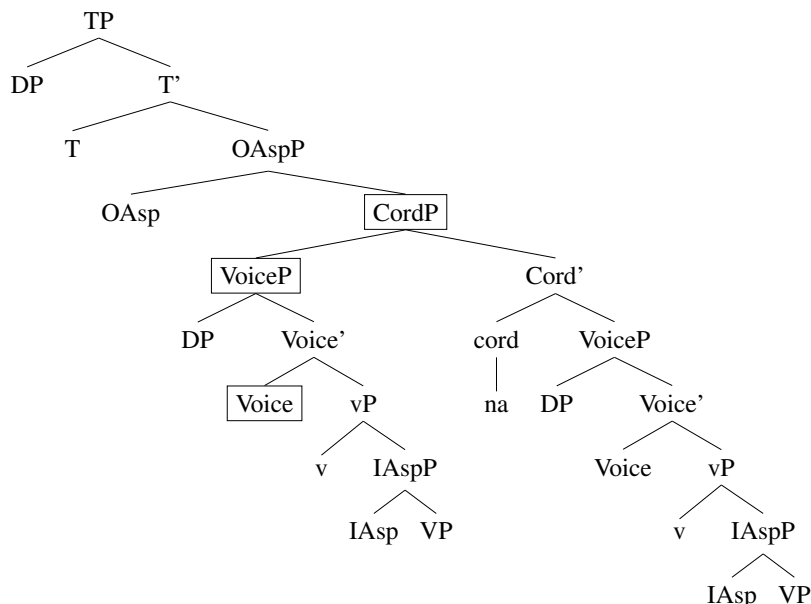
- In Asante Twi, *na* coordinates non-DPs

- (12) a. Kofi bɛ-tɔ aduane na Ama a-di.
 Kofi FUT-buy food CONJ Ama CONS-eat
 ‘Kofi will buy food and Ama will eat.’
 b. Kofi tɔ-tɔ aduane na Ama di-i.
 Kofi buy-PST food CONJ Ama eat-PST
 ‘Kofi bought food and Ama ate it.’

- The distribution of tense and aspect is similar to SVCs
- Based on the distribution of **a-** we can rule out TP coordination.
 - **a-** cannot be the only tense/aspect in a clause

- (13) Ama a-didi
 Ama #CONS/PERF-eat
 ‘Ama has eaten’

- I propose that *na* coordinate constructions involve VoiceP coordination
 - They have the same tense and aspect restrictions as SVCs
 - But they have multiple subject positions



5 Conclusion

- The proposed syntax accounts for the tense restriction in SVCs: since there is one tense marker, tense cannot vary.
- We can account for the single subject constraint in these constructions without any further stipulation.
- Proposing an account aspect head also accounts for the aspect restriction
- The consecutive morpheme **a-** is a spell-out of non-initial aspect.
- This analysis extends to overt *na* coordination which have the same tense and aspect restrictions.
- Overt *na* coordination involves VoiceP coordination while SVCs involve vP coordination.

5.1 Some challenges

- Future behaves like aspects. The non-initial verbs have the **a-** morpheme.

(14) Kofi bɛ-tɔ fufuo a-di
 Kofi PROG-buy fufuo CONS-eat
 ‘Kofi will buy fufuo and eat.’

- Is FUT T or aspect?

- The **a-** morpheme is some times not required in SVCs.

- (15) a. Kofi a-to fufuo re-di
 Kofi PERF-buy fufuo PROG-eat
 ‘Kofi has bought fufuo and is eating.’
- b. Kofi re-to nwom re-sa.
 Kofi PROG-sing song PROG-dance
 ‘Kofi is singing and dancing.’ (Simultaneously)
- Difference aspect markers on the verbs in (15-a)
 - Aspect morphology on the non-initial verb in (15-b)

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