

The hyper-sensitive agreement in Akebu

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Introduction

Central claim

This talk is about the interaction of agreement and Ā-movement.

(1) Central claim

Ā-feature is visible to Agree, similar to ϕ -features.

Why is it interesting?

Agreement morphology often tracks Ā-movement utilizing some special inflection in its presence. But what exactly is triggering the special inflection?

- (2) Answer 1: The syntactic configuration (Cheng 2006; Chung 1994; Haïk 1990; Ouhalla 1993; Schneider-Zioga 2007, a.o.) regular inflection = regular syntactic derivation; special inflection = irregular derivation (Anti-Agree; φ-agr't with C etc.)
- $\begin{array}{ll} \text{(3)} & \textit{Answer 2: The }\bar{\text{A}}\text{-feature (Baier 2018; Baker 2008; Ouhalla 2005, a.o.)} \\ & [\varphi] & \Leftrightarrow / \text{regular inflection } / \\ & [\varphi, \bar{\text{A}}] \Leftrightarrow / \text{special inflection } / \end{array}$

(1) is a cornerstone assumption for the morphological theory of \bar{A} -agreement (3). In this talk I argue that the agreement pattern found in the language Akebu (GTM; Kwa) provides direct evidence in favor of (1).

Roadmap/Goals for the talk

- Introduce a new pattern of Ā-sensitive agreement the hyper-sensitive subject agreement in Akebu;
- Develop an analysis of the Akebu pattern:
 - Τ φ-agrees with its Spec;
 - CĀ-agrees with its Spec (sometimes);
 - C transmits Ā-features to T (sometimes);
 - **(** T, ϕ **]** and $[T, \phi, \overline{A}]$ are spelled out as different vocabulary items.
- Argue that this analysis requires the Ā-feature to be visible to Agree;
- Show morphosyntactic evidence against analyzing the Akebu pattern as *wh*-agreement;
- Show morphophonological and morphosyntactic evidence against analyzing the Akebu pattern as contextual allomorphy on T.

- 1 of 14-ish Ghana-Togo Mountain languages spoken in Central Togo in the mountains at the Ghana-Togo border (Blench 2001; Heine 1968; Struck 1912)
- Akebu is spoken by 70,000 people in Togo (Ethnologue 2015 (census in 2012))
- GTM are not very "typical" Kwa languages. Akebu has noun classes (7-12; Makeeva and Shluinsky 2018a; Storch and Koffi 2000), subject agreement, nominal concord (Makeeva and Shluinsky 2018b) ...
- SVO; largely prefixal morphology
- All examples come from my own field notes collected in the village Djon (Wawa prefecture; Togo) with 7 different speakers.

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The hyper-sensitive agreement in Akebu

Subject agreement with the noun class NU in Akebu (Makeeva and Shluinsky 2018a) has two different exponents — \varnothing - and *n*-. The *n*-form occurs in standard \overline{A} -movement contexts (*wh*-fronting, focus fronting, relativization).

- (4) māré Ø-láá-tā àŋālūpíí
 Mary.NU NU-HAB-like ice.cream.PE.Q
 'Does Mary like ice cream?'
- (6) kὲ wɨ mārɨ n-(l)áá-tā what.τε FOC Mary.NU Ā.NU-HAB-like 'What does Mary like?'

yes/no-question

subject wh-fronting

non-subject wh-fronting

The hyper-sensitive agreement in Akebu

Akebu also allows wh-in-situ. Subject wh-in-situ also emerges with the n-form:

(7) álē n-(l)áá-tā àŋālūpí
 who.NU Ā.NU-HAB-like ice.cream.PE
 'Who likes ice cream?'

subject wh-in-situ

(8) mārź Ø-láá-tā kè Mary.NU NU-HAB-like what.TE 'What does Mary like?'

non-subject wh-in-situ

The only difference between subject *wh*-fronting and subject *wh*-*in-situ* is the presence of the focus particle *wá*. The *n*-form is obligatory in both.

The focus particle $w\dot{a}$ is obligatory in \bar{A} -mov't contexts and it is impossible elsewhere. I interpret this to mean that the subject *wh*-movement is optional in Akebu, similar to non-subject one. Therefore the *n*-form also occurs in subject *wh*-*in-situ*.

⇒ The *n*-form emerges in all *wh*-fronting and in subject *wh*-*in*-*situ* contexts.

Components of my proposal

Ā-agreement

(9) \overline{A} -feature is visible to Agree, similar to ϕ -features.

Vocabulary items

Feature Inheritance

(11) C-to-T Feature Transfer (Chomsky 2008; Ouali 2008; Richards 2007) C passes its features to T.

Note: Multiple probes on T is a plausible alternative.

Weak and strong C

wh-in-situ and *wh-ex-situ* at some point in the derivation have different featural makeups of C (Cole and Hermon 1998; Sabel 2000, a.o.):

(12) Weak C: [wh] Strong C: [wh, Ā]

Weak C does not transmit features to T. Strong C does.



a. álē wá n-(l)áá-tā àŋālūpí who.NU FOC Ā.NU-HAB-like ice.cream.PE 'Who likes ice cream?'



c. $[T, \phi:NU, \overline{A}] \Leftrightarrow /n-/$



- (15) subject wh-in-situ
 - a. álē n-(l)áá-tā àpālūpí who.NU Ā.NU-HAB-like ice.cream.PE 'Who likes ice cream?'



c. $[T, \phi:NU, \overline{A}] \Leftrightarrow /n-/$



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Proposal: ϕ -agreement with C

One alternative to the analysis using (17) is to assume that *wh*NP in Spec;CP ϕ -agrees with C and after the C-to-T Feature Transfer T hosts two sets of ϕ -features as in (18).

- (17) \bar{A} -agreement \bar{A} -feature is visible to Agree, similar to ϕ -features.
- $(18) \quad \begin{bmatrix} \mathsf{T}, \varphi, \varphi \end{bmatrix} \quad \Leftrightarrow \quad /n\text{-}/$

Under this view the *n*-form in Akebu is an instance of portmanteau agreement on T.

Problem #1: Indistinguishable ϕ -sets

(19) Two sets of ϕ -features on the same node cannot be distinguished by their source (Markman 2005; Nevins and Sandalo 2011; Schütze 2003, a.o.).

Note: hierarchies in portmanteau agreement never make reference to sources of features alone, but only to combinations of values and sources (Harbour, Adger, and Béjar 2008; Trommer 2003; Woolford 2016).

If Akebu has ϕ -agreement with C and its ϕ -features are later transmitted to T, the special inflection must be tied to the ϕ -feature bundles of two NPs in Spec;TP and Spec;CP irrespective of their order. This is not the case:

- (20) a. álē lá dāpúpú-tà wá māre n-(l)áá-tā who.NU POSS crow-TE FOC Mary.NU Ā.NU-HAB-like 'Whose crow does Mary like?'
 - b. *álē wá dāpúpú-tà n-(l)áá-tā
 who.NU FOC crow-TE Ā.NU-HAB-like
 int. 'Who does the crow like?'

It follows that (17) must be true as long as feature bundles are spelled-out in T.

Problem #2: Agreement under government

In subject wh-in-situ (but not in other in-situ contexts) C must ϕ -agree with *wh*NP staying in Spec;TP.

(21) álē n-(l)áá-tā àŋālūpí who.NU Ā.NU-HAB-like ice.cream.PE 'Who likes ice cream?'

subject wh-in-situ

Note: If both C and T ϕ -agree with the same *wh*NP and it results in [T, ϕ , ϕ], then Agree can only be modeled as feature copying and not feature sharing (Frampton and Gutmann 2002).

Proposal: /n-/ leaps from C to T during Spell-Out

- $(22) \quad [\mathsf{C}^{\textit{strong}}, \varphi] \quad \Leftrightarrow \quad \textit{/n-/}$
- (23) whNP C NP T ...

Problem #1: Other noun classes

If the *n*-form is a result of Affix Hopping, we expect to find *n*- with other noun classes, including the noun class TE which has a zero exponent similar to NU.

- (24) kè wé kè-pɔ̄ɔ-kè (*n)-kè-láá-tā what.τε FOC κε-snake-κε Ā-κε-HAB-like 'What does the snake like?'

Problem #2: Agreement under government

All *in-situ* contexts have a weak C, but subject *wh-in-situ* emerges with the *n*-form:

(26) álē n-(l)áá-tā àpālūpí who.NU Ā.NU-HAB-like ice.cream.PE 'Who likes ice cream?'

Proposal

(27) a. $[T, \phi:NU] \Leftrightarrow /n-//???$ b. $[T, \phi:NU] \Leftrightarrow /\varnothing-/$ (elsewhere)

After Bobaljik (2000) I assume that the inward-sensitive contextual allomorphy is restricted to morphphonological features and the outward-sensitive one to morphosyntactic features.

Restricting the context of (27-a) to the phonological content of its sister is simply inadequate, both \varnothing - and *n*- co-occur with the same neighboring phonemes.

Problem: outward-sensitive allomorphy triggered by the wrong C

Restricting the context of (27-a) to the presence of \bar{A} -feature in C excludes subject *wh-in-situ* with the weak C:

(28) álē n-(l)áá-tā àpālūpí who.NU Ā.NU-HAB-like ice.cream.PE 'Who likes ice cream?'

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- Akebu demonstrates a new pattern of extraction-sensitive agreement the hyper-sensitive agreement. Its signature property is that the locus of subject agreement also shows sensitivity to the presence of Ā-feature (in C or Spec;TP).
- The hyper-sensitive agreement receives an account based on the mechanism of Feature Inheritance. This account also needs some means to distinguish two sets of features that appear on T.

(29) Central claim

Ā-feature is visible to Agree, similar to ϕ -features.



Questions?

	NU	TE	PE	WU	YE	KE	KPE
Agr't marker	Ø-/[nasal]-	[voice]-	pà-	wà-	yà-	kà-	kpà-

Agreement markers in Akebu (Makeeva and Shluinsky 2018a)

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