The Crosslinguistic Defaultness of BE

1. Introduction/Background

- There is a long-standing intuition in linguistic analysis that auxiliaries such as *be* are in some sense **default verbs**.
- ► Here I present a formalization of this intuition: auxiliary be is not present in syntax but is instead a morphological default inserted to realize "stranded" inflectional material.
- This provides a unified analysis of previously-undiscussed variation in the distribution of auxiliary constructions.

2. Variation in Auxiliary Use

A familiar pattern:

Some inflectional categories require auxiliaries. Combinations of such categories require **two** auxiliaries:

- **Progressive:** The children **were** eating the cake. (1)а.
 - Passive: The cake **was** eaten. b.
 - Progressive passive: The cake was being eaten.

A different pattern: Bantu, Latin

Individual inflectional categories do not require auxiliaries, but some *combinations* do:

Kinande: past tense and aspect (progressive, incompletive, or inceptive) require an auxiliary *only* in combination:

- (2)a. **Progressive: tu-nému-húma**, 'We are hitting'
 - b. Past: tw-á-húma, 'We hit (recently, not today)'
 - Past Progressive: **tw-á-bya** i-tu-nému-húma, 'We were (recently, not today) hitting.'

Latin: passive and perfect categories require an auxiliary only in combination (Embick, 2000)

- Perfect: amavi, 'I loved, I have loved.' (3) а.
 - Passive: amor, 'I am loved.' b.
 - Perfect Passive: amatus **sum**, I was loved, I have been loved.'

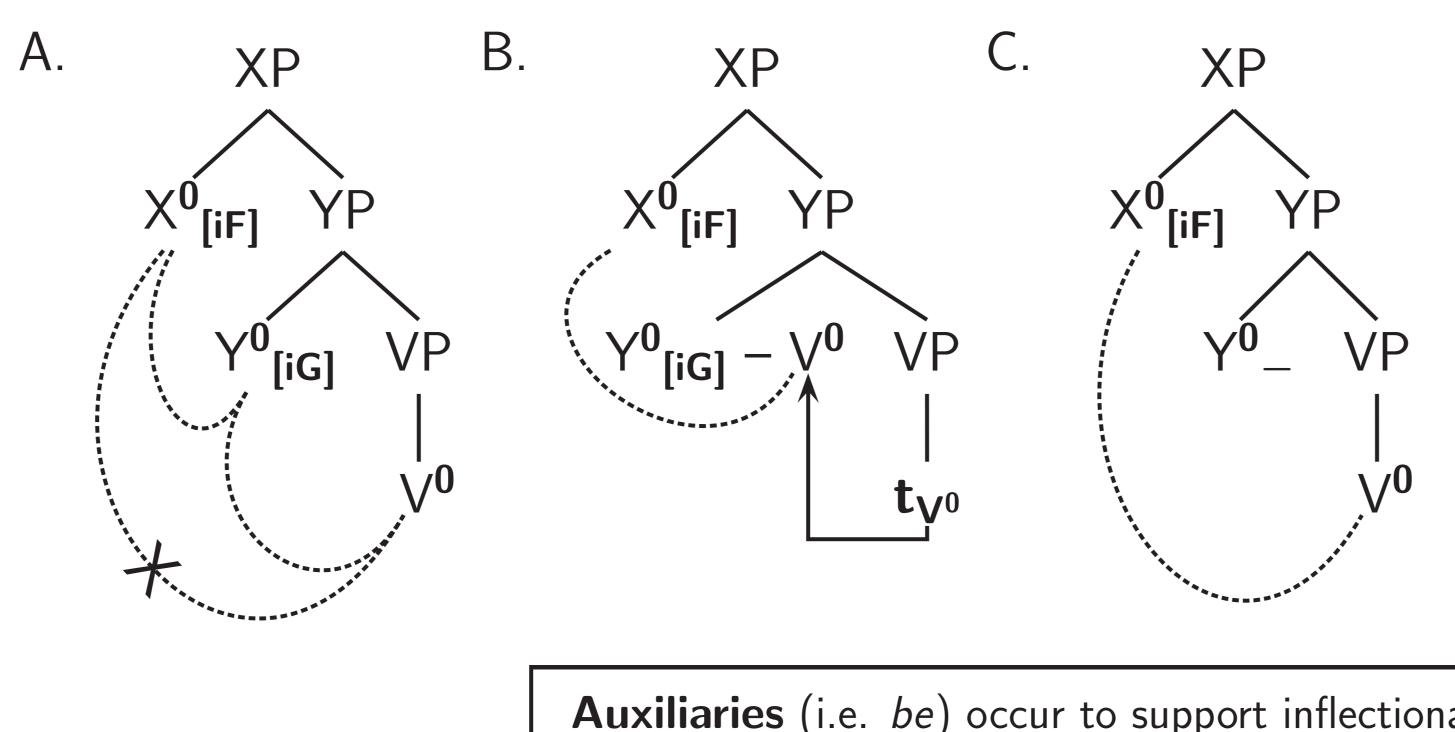
Evidence for Default Auxiliaries:

Latin and Kinande would require complex licensing for be in an AuxP: projected *only* in the presence of **two** other categories, never by either individually.

> * [AuxP [XP]] * [AuxP [YP]] ✓ [AuxP [XP [YP]]]

An alternative: no AuxP; complex structures give rise to auxiliaries in the morphology (cf. Schütze, 2003; Cowper, 2010)

3. A Simple Theory of Inflection



4. Illustration

| 1. ENGLISH Head movement: T ⁰ attracts Voice | ⁰ and Asp ⁰ | 2. K Head r |
|---|--|-----------------------|
| Default (.: non-visible) : Non-progres | ssive Asp ⁰ and active Voice ⁰ | Defaul |
| TP T ⁰ AspP Asp ⁰ VoiceP Voice ⁰ VP | Progressive: were eating Asp⁰ and V⁰ Agree for [Prog] T⁰ Agrees with Asp⁰ for [Past] + HM [Past] is stranded → auxiliary were Passive: was eaten Voice⁰ and V⁰ Agree for [Passive] T⁰ and Voice⁰ Agree for [Past] + HM [Past] is stranded → auxiliary was Progressive Passive: was being eaten Voice⁰ and V⁰ Agree for [Passive] Asp⁰ and Voice⁰ Agree for [Passive] Asp⁰ and Voice⁰ Agree for [Passive] T⁰ and Asp⁰ Agree for [Past] + HM | |
| | | |

▶ [Past] is stranded \rightarrow auxiliary was.

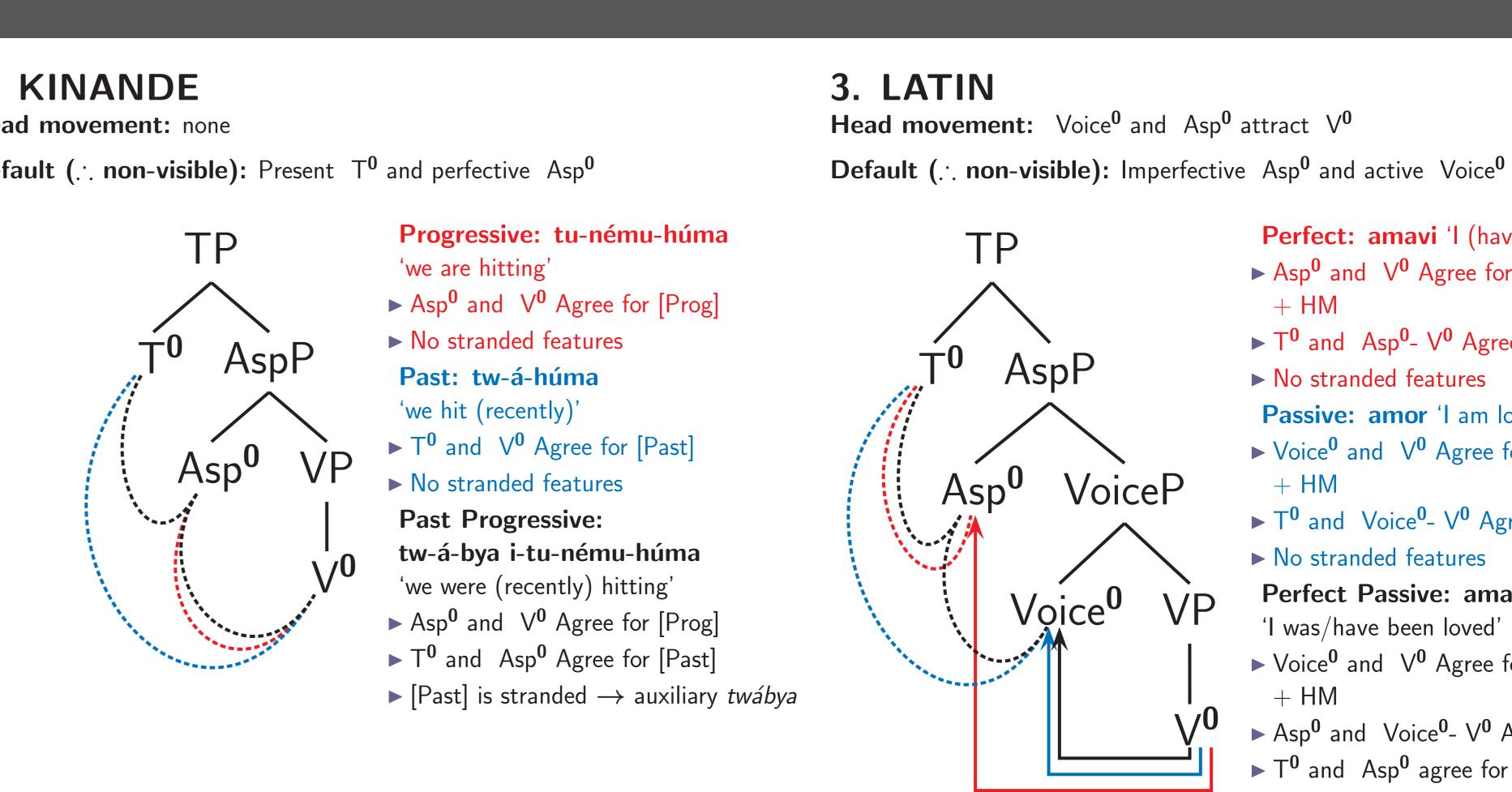
5. Implications: Reduced Relatives

Reduced relative forms exist only for participles that take be (so-called Whiz-deletion in English; extended further by latridou et al., 2003)

| (Λ) | - | The color color has the children | so ne |
|-------------|--------------------------------|----------------------------------|-------|
| (4) | а. | The cake eaten by the children | The |
| | b. | The children eating the cake | The r |
| | | *The children eaten the cake | have) |
| | C. The children eaten the Cake | (Free | |

- for Agree.
- B. Head movement (HM) is dependent on a pre-existing Agree relation. Movement of the lexical verb can cause it to be accessible to Agreement from previously exist in their inflectional systems.
- by local Agreement and head movement.

Auxiliaries (i.e. *be*) occur to support inflectional features that have not Agreed with $V^0 \longrightarrow [iF]$ in Tree (A)



This is exactly an environment in which we would **expect** an auxiliary not to occur, assuming that reduced relatives lack higher inflectional structure and so never have stranded inflection.

restriction to *be* follows if other auxiliaries (i.e. arise in structures with additional features eze, 1992; Kayne, 1993), requiring verbal realization.

If be occupied AuxP, why would relevant inflectional categories fail to select *be* in reduced relative environments? \rightarrow **support** for the default *be* analysis.

Please see the handout for full references. For helpful discussion and many suggestions, I would like to thank Claire Halpert, Sabine latridou, Patrick Jones, Hrayr Khanjian, David Pesetsky, and Norvin Richards.

A. Inflectional features are manipulated by Agree (Chomsky, 1998), not head raising or lowering. Agreement is **local**: all heads with inflectional features are potential targets

non-local inflectional heads. Languages differ in which instances of head movement

C. Only **non-default** ('marked': Jakobson, 1939; Comrie, 1976) inflectional features are visible for the purposes of Agree. Heads without such features can be skipped both

Perfect: amavi 'l (have) loved.' ► Asp⁰ and V⁰ Agree for [Perf]

- + HM
- \blacktriangleright T⁰ and Asp⁰- V⁰ Agree
- ► No stranded features
- Passive: amor 'I am loved' ► Voice⁰ and V⁰ Agree for [Pass]
- + HM \blacktriangleright T⁰ and Voice⁰- V⁰ Agree
- ► No stranded features
- Perfect Passive: amatus sum 'I was/have been loved'
- ► Voice⁰ and V⁰ Agree for [Pass] + HM
- ► Asp⁰ and Voice⁰- V⁰ Agree for [Perf]
- \blacktriangleright T⁰ and Asp⁰ agree for [Past]
- \blacktriangleright [Past] is stranded \rightarrow auxiliary sum

WWW: http://web.mit.edu/bmbjork/www/