Neg-words in Eton (Bantu): an HPSG-analysis

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Outline

- 1. Introduction
- 2. Previous approaches
- → 3. Analysis
- 4. Conclusion
- 5. References

1. Introduction

- Eton is a Bantu language spoken in Cameroon
- The only analysis of it so far has been done by Van de Velde (2008)
- This talk is based on my own fieldwork with a native speaker of Eton
- The variety here slightly differs from the one in Van de Velde (2008), but only in minor respects
- Eton is an SVO language, a non-NC language and possesses neg-words
- The neg-words identified are te-mod ('nobody'), te-dzom ('nothing') and te-wom ('nowhere')
- These can appear pre- and postverbally without any licensor
- The occurrence of two neg-words results in a DN reading

1. Data

- Pre- and postverbal use of neg-words:
- (1) a. Te-mod a-ti di.

 NEG-person 1-PROG eat.

 'Nobody eats.'

b. James a-ti di te-dzom.

James 1-PROG eat NEG-thing

'James eats nothing.'

- Use as a fragment answer:
- (2) a. Q: Paul a-ken-ge we?

 Paul 1-go-PST where

 'Where did Paul go?'

 A: Te-wom.

 NEG-place

 'Nowhere.'
 - b. Q: Za-ti yen Linda? B: Te-mod.

 Who.1-PROG see Linda NEG-person

 'Who sees Linda?' 'Nobody.'

1. Data

Finally, when two neg-words co-occur or a neg-word occurs together with the negation marker (aa), the result is a DN reading:

- (3) a. Te-mod aa-ti di.

 NEG-person 1.NM-PROG eat.

 'Nobody doesn't eat.'
 - c. Te-mod a-ti di te-dzom.
 NEG-person 1-PROG eat NEG-thing
 'Nobody eats nothing.'
- b. James aa-ti di te-dzom.

 James 1.NM-PROG eat NEG-thing

 'James doesn't eat nothing.'
- d. Alex a-ti ve te-mod te-dzom.

 Alex 1-PROG give NEG-person NEG-thing

 'Alex gives nobody nothing.'

1. Introduction

Why is that interesting?

- Typologically interesting because it clearly opposes Haspelmath (1997) and Weiß (2004)
- Haspelmath (1997):
- Languages where a neg-word alone can contribute negation are restricted to a certain European area
- Eton clearly proves this wrong
- ► Weiß (2004):
- English and German are actually hidden NC languages
- Their neg-words only contribute negation because of standardization
- A major criterion for being a non-NC language is the non-existence of negwords in the corresponding language
- Eton does not have a standard variety and even if, it would rather tend towards French

1. Introduction

- 2. The neg-words from Eton are obviously decompositional
- The prefix te can be separated from the stem which can also appear alone:
- (4) a. James aa-ti yen mod. b. Mod a-ti di.

 James 1.NM-PROG see person person 1-PROG eat

 'James doesn't see anybody.' 'Somebody eats.'
- In contrast, English and German neg-words are not as synchronically transparent
- Due to the data, it seems plausible to assume that te contributes the negation, but no quantification
- The prefix cannot be combined with any other elements than the negword stems (generalized indefinites)
- The translation of the stems, by the way, provides evidence for treating the neg-words as contributing existential quantification and not universal quantification, as proposed for Korean by Sells & Kim (2006)

1. Starting position

- Main aim:
- Integrating Eton's neg-words into the HPSG framework and accounting for
 - Their inherent negativity
 - Their obvious decompositionality
- Therefore, we need to reconcile the inherently negative approach proposed by de Swart & Sag (2002) or Richter & Sailer (2006) with the nonnegative approach put forth by Penka & Zeijlstra (2005)
- The analysis itself is mainly based on the concepts presented and developed in Levine, Richter & Sailer (2014)

2. The negative approach

- Treating neg-words as negative quantifiers (de Swart & Sag 2002, Richter & Sailer 2006)
- In DN languages like Eton: multiple negative quantifiers cannot agree as opposed to NC-languages
- Evidence comes from the negative contribution the neg-words make whenever they appear in DN languages
- Negation Faithfulness Constraint (Richter & Sailer 2006:317):

(5) NEGATION FAITHFULNESS CONSTRAINT (German, Dutch, English):

a. In every phrase: there is no element of the form $\neg \alpha$ which is on the PARTS list of both the head-daughter and the nonhead-daughter.

b.
$$phrase \Rightarrow \begin{bmatrix} H-DTR \ LF \ PARTS \ A \\ N-DTR \ LF \ PARTS \ B \end{bmatrix}$$

$$and not E[] E \alpha \begin{bmatrix} I = \neg \alpha \\ and member(I,A) \\ and member(I,B) \end{bmatrix}$$

2. The non-negative/decompositional approach

- Neg-words as combinations of an abstract negative operator and a nonnegative indefinite (Penka & Zeijlstra 2005)
- Main argument for not treating neg-words in DN languages as inherently negative: split-scope readings
- German example:
- (6) Es muss kein Arzt anwesend sein. (Penka & Zeijlstra 2005:3) there must no physician present be
- a. 'It is not required that there be a physician present.' ¬ > must > ∃
- b. *'There is no physician who is required to be present.' ¬ > 3 > must
- c. 'It is required that there be no physician present.' must > 7 > 3
- The modal can intervene between the negation and the existential quantifier
- Proposal that neg-word is not inherently negative itself

3. The situation in Eton

- Te can only appear with the generalized indefinites, so, examples like (6) are impossible
- Te cannot function as a determiner unlike no or German kein(e)
- In these cases, sentential negation is used
- (7) a. *John a-ti yen te metwa. b. John aa-ti yen metwa.

 John 1-PROG see NEG car

 John 1.NM-PROG see car

 Intended: 'John sees no car.'

 'John sees no car.'
- However, there is still another possibility for split scope readings

3. The situation in Eton

- Sentences like Alex can do nothing also have split scope readings and are possible in Eton
- (8) Alex a-ne quam te-dzom.

 Alex 1-COP/can do NEG-thing

 'Alex can do nothing.'
- This, by the way, again provides evidence for the assumption that Eton's neg-words are existential quantifiers and not universal quantifiers
- Following Penka & Zeijlstra (2005:3), such examples theoretically have three possible readings:
- (9) a. It is not possible that Alex does something. ¬> can > ∃
 b. There is nothing, Alex can do. ¬> ∃ > can
 c. It is possible that Alex does nothing. can > ¬ > ∃

3. The solution to this problem

- The constraints in LRS do not necessarily demand that the negation directly precedes the existential quantification
- Richter & Sailer (2006:312) propose the following structure:

(10)

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SYNSEM NP

LF \begin{bmatrix} \text{EXC} & \boxed{1} \exists x (\alpha \land \beta) \\ \text{PARTS} & \langle x, \boxed{1}, \text{human}'(x), \neg \gamma \rangle \end{bmatrix} and \begin{bmatrix} \text{In a component of } \gamma \end{bmatrix} and \begin{bmatrix} \text{In a component of } \gamma \end{bmatrix}
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- Thus, readings where the modal intervenes between the negation and the quantification are not disallowed, i.e. they are possible
- This is an advantage over the approach by de Swart & Sag (2002)

3. Analysis

■ (11) Lexical entry for te-dzom:

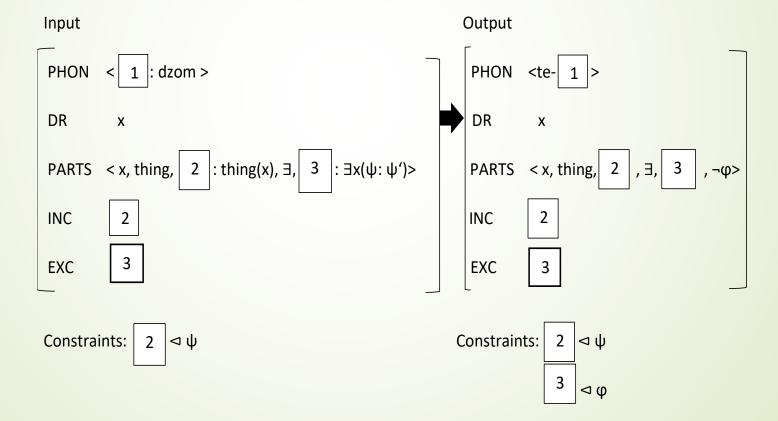
```
PHON <te-dzom>
HEAD noun
       NEG +
       SUBJ
VAL
       SPR
       COMPS <>
DR
PARTS < x, thing, 1 : thing(x), \exists, 2 : \existsx(\psi: \psi'), \neg \phi>
INC
EXC
Constraints:
             2 ⊲ φ
```

3. The decompositional approach

- Nonetheless, the decompositional concept of the non-negative approach can be helpful for Eton
- The prefix te is similar to the covert negative operator that Penka & Zeijlstra (2005) assume following the syntactic agreement approach by Zeijlstra (2004)
- However, in contrast to this negative operator, te does not license the occurrence of the neg-words, but is crucial for their negative contribution
- To capture the composition of the neg-words, we need a lexical rule
- This lexical rule should merge the negative prefix with mod, dzom and wom
- I will follow the basic concept of Iordachioaia & Richter (2015) who create a lexical rule for negative verb forms in Romanian
- the concept of (de-)composition is perfectly applicable to HPSG

3. Analysis

(12) Lexical rule for neg-words in Eton (first version):



3. Some problems

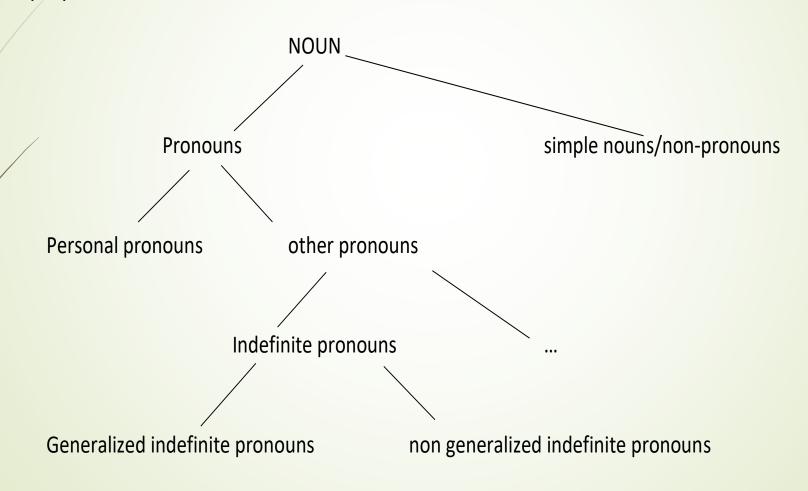
- Remaining issues with the lexical rule:
- i) It is an applied rule and not a general one -> what distinguishes mod, dzom and wom from other elements?/what are the restrictions for te?
- ii) Mod, dzom and wom can also be simple nouns meaning 'person',
 'thing' and 'place'
 - There is no indefinite article in Eton -> could it be that mod, dzom and wom do not contribute quantification at all and that the prefix is only a negative quantifier?
- iii) If so, why can te only combine with three nouns?

3. Some answers

- Even though the neg-word stems can also be simple nouns, I propose that these three elements have a dual nature
- This gains slight evidence from their lexical translation
- Thus, there are two separate lexical entries for mod, dzom and wom, one as a simple noun and the other as an indefinite
- I suggest the generalized indefinites to be a (sub)part of speech, consisting only of the three neg-word stems
- Due to the stems already contributing quantification, we have further evidence that te does not contribute quantification

3. Analysis

(13) Class of nouns



3. Some rules

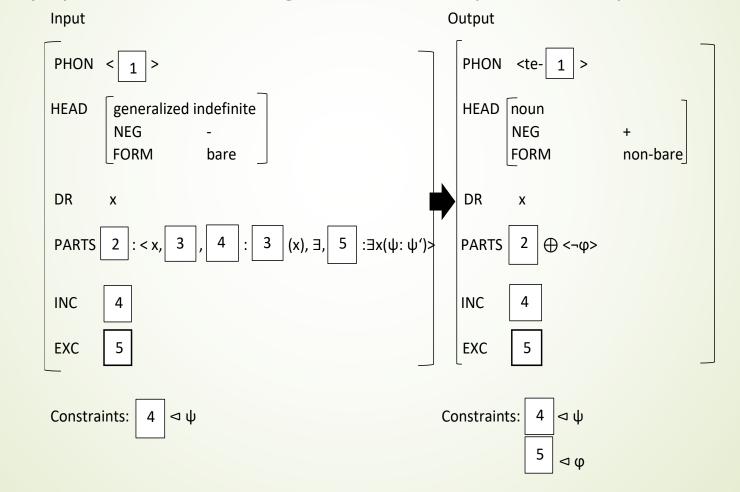
- (14) Descriptive rules:
- a. Te can only combine with elements already contributing existential quantification themselves
- b. Te can only combine with bare words, not with syntactic/semantic (cf. Beavers 2003 and literature therein for the treatment of nouns with no article) or morphological combinations (with the exception being noun class markers)
- c. Te can only combine with indefinites denoting a person, thing or place
- These majorly ensure that only the generalized indefinites can be prefixed by te, however, one can get more concrete

3. Some rules

- (14) Descriptive rules:
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- c. Te can only combine with indefinites denoting a person, thing or place
- These majorly ensure that only the generalized indefinites can be prefixed by te, however, one can get more concrete:
- (15) a. Te can only combine with generalized indefinites.
 - b. Generalized indefinites contribute existential quantification, have not undergone syntactic/semantic or morphological* processes and denote a person, thing or place.
 - c. The only generalized indefinites in Eton are mod, dzom and wom.

3. Analysis

(16) Lexical rule for neg-words in Eton: (final version)



4. Conclusion

- Haspelmath's (1997) geographic restriction on neg-words being able to contribute negation themselves is inadequate
- Weiß' (2004) criterion on neg-words and non-NC languages cannot be upheld
- The negative prefix is the overt proof for the negative contribution of the neg-words
- The negative prefix is similar to the silent negative operator assumed in other frameworks in only contributing negation
- Neg-words in Eton are inherently negative indefinites contributing existential quantification
- Split-scope readings can be accounted for by the constraints in LRS
- The decompositionality of the neg-words can be captured by a lexical rule

THANK YOU FOR YOUR ATTENTION!

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