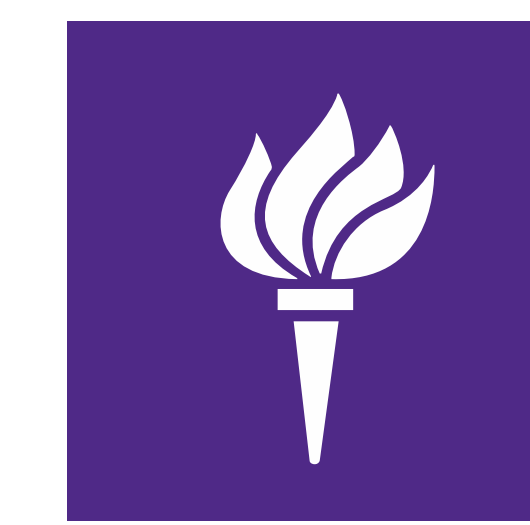


Graded nominal tense in Kipsigis

Maria Kouneli (mk5023@nyu.edu), Department of Linguistics, NYU

Deniz Özyıldız (dozyildiz@umass.edu), Department of Linguistics, UMass Amherst



NYU



1. Introduction

- Kipsigis has **graded nominal tense**, “NT.”
[Nilotic, Kenya, ~2m. speakers; Ethnologue 2015]
- The language encodes **current**, **recent** and **distant past tense** on nominals, a rare and underdocumented phenomenon.
 - The first **language (at least) in Africa to be described, in the formal linguistics literature, as having graded NT.**
 - The second, after Somali, as having NT at all.
[Nordlinger & Sadler 2004, Lecarme 1996]
- Proposal:** Kipsigis NT markers are partial identity functions on entities. They trigger the presupposition that an individual was salient at a past time interval.
- Fieldwork:** Our data come from original fieldwork with 6 native speakers, conducted in Nairobi (fall 2017), and via Skype (spring 2018).

2. Background on graded tense

- Languages like English distinguish the past, present, and future.
- Others (e.g., many Bantu languages) distinguish **how far in the past/future** an event occurs. This is **graded tense** (Cable 2013, Mucha 2017, a.o.).

(1) Temporal remoteness distinctions in ChiBemba

- | | |
|--|--|
| a. baàléébomba
'They were working.'
(before yesterday) | b. baáléébomba
'They were working.'
(yesterday) |
| c. baàcíláábomba
'They were working.'
(earlier today) | d. baábomba
'They've just worked.'
(immediately prior to UT) |

[adapted from Givón 1972 via Cable 2013]

3. Kipsigis verbal tense system

- Unmarked non-past:**

(2) a. Myán-i John. be.sick-IPFV John. 'John is sick.'	b. kwàany-é John kímnyéet. make-IPFV John ugali 'John makes/is making ugali.'
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Acceptable context: What is Joing doing right now?
Unacceptable context: What did John do/was John doing yesterday?
- Graded past tense, three levels of past:**

(3) a. *(kà)-láal làakwèet. PAST1-cough girl.NOM 'The girl coughed (earlier today).'	[ka-: current past]
b. *(kò)-láal làakwèet. PAST2-cough girl.NOM 'The girl coughed (yesterday/a few days ago).'	[ko-: recent past]
c. *(ki)-láal làakwèet. PAST3-cough girl.NOM 'The girl coughed (long ago).'	[ki-: distant past]
- Optional for negative perfective forms, obligatory elsewhere:**

(4) Context: "John got sick yesterday..."	
a. Acha, kò-ma-myen John. no PAST2-NEG-be.sick John 'No. John didn't get sick.'	b. Acha, ma-myen John. no NEG-be.sick John 'No. John didn't get sick.'

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4. Background on nominal tense

- Nominal interpretation is sensitive to time.

(5) Every fugitive is now in jail.	[Enç 1981]
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- In some languages, overt functional NT morphemes modify the interval of time an NP predicate applies to an individual. (6) features an indefinite.

(6) Juan ha'e pa'i-kue/-rã. Juan 3.PRON priest-KUE/-RA 'Juan is a former/future priest.'	[Paraguayan Guaraní; Tonhauser 2007]
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- In others, only definite nouns can be marked for tense. In Somali, NT morphology appears on the definite determiner (Lecarme 1996). In (7), NT marked nominals are used anaphorically, hence definite:

(7) "A boy and a girl came..." { Wiil-kii baa, wiil-ka ayaa } qoslay. boy-DET.PAST FOC boy-DET.PRES FOC laughed 'The boy laughed.'	[Somali; Ivan & Özyıldız 2017]
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- See Nordlinger & Sadler (2004) for a cross-linguistic survey. In-depth studies of specific languages include Lecarme (1996, 1998, 2008, 2016) and Ivan & Özyıldız (2017) for Somali, Tonhauser (2006, 2007) for Paraguayan Guaraní, and Thomas (2014) for Mbyá Guaraní.

5. Kipsigis nominal tense system

- There are 3 past NT morphemes that must occur with a prox. demonstrative.
- The NT morphemes are similar to the verbal temporal morphemes (cf. 3).
- They agree with the nouns that they modify in Number.

(8) Current past -kaan (verbal prefix ka-):	
a. làakwà-nì-kâan girl-DEM-PAST1 'this girl from earlier today'	b. làakóo(k)-chù-kâan girls-DEM-PAST1 'these girls from earlier today'
(9) Recent past -koonye (verbal prefix ko-):	
a. làakwà-nì-kóonyè girl-DEM-PAST2.SG 'this girl from yesterday'	b. làakóo(k)-chù-kóochè girls-DEM-PAST2.PL 'these girls from yesterday'
(10) Remote past -kiinye (verbal prefix ki-):	
a. làakwà-nì-kíinyè girl-DEM-PAST3.SG 'this girl from long ago'	b. làakóo(k)-chù-kíichè girls-DEM-PAST3.PL 'these girls from long ago'
- NT marking in Kipsigis is optional.**

(11) kà-òo pèelyàat. PAST1-big elephant 'The elephant (from today/2 days ago/long ago) was big (today).'
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- NT is independent of the tense of the matrix clause.

(12) kī-boot-e ngoog-i-kaan PAST3-bark-IPFV dog-DEM-PAST1 'The dog (from earlier today) was barking (long ago).'
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Selected References: Cable 2013. Beyond the past, present, and future: towards the semantics of 'graded tense' in Gikũyũ." *Nat. Lang. Sem.* Ivan & Özyıldız. 2017. The temporal presuppositions of Somali definite determiners. In *Proc. of SuB 21*. Lecarme 1996. Tense in the nominal system: The Somali DP. In *Studies in Afroasiatic grammar*. Lewis 2014. The syntax and semantics of demonstratives: A DP-external approach. In *Proc. of the CLA 2014*. Mucha 2017. Past interpretation and graded tense in Medumba. *Nat. Lang. Sem.* Nordlinger & Sadler 2004. Nominal tense in crosslinguistic perspective. *Language*. Thomas 2014. Nominal tense and temporal implicatures: Evidence from Mbyá." *Nat. Lang. Sem.* Tonhauser 2007. Nominal tense? The meaning of Guaraní nominal temporal markers." *Language*.

6. Semantic generalizations

- Kipsigis NT morphemes **locate DP denotations in time in discourse.**

(13) Context: "Remember when (kaan) we saw an elephant?" Ee. Kà-òo pèelyaanda-ni-kaan. [# -koonye, # -kiinye] yes PAST1-big elephant-DEM-PAST1 'Yes. The elephant (from earlier today) was big (earlier today).'	[Corresponding patterns obtain with recent/distant past in the context.]
(14) Context: We saw a dog 1 month ago. We saw it again this morning. Ki-boot-e ngoog-i-kaan. [# -koonye, # -kiinye] PAST3-bark-IPFV dog-DEM-PAST1 'That dog (from earlier today) was not barking (that time, long ago).'	
- The meaning contribution of NT morphemes is **presuppositional.**
 - Obligatory speaker and hearer familiarity:
(14) is infelicitous where only speaker sees the dog this morning.
 - Projection from under the scope of negation:
Negating (14) still implies that the dog was seen this morning.
- Obligatory context update:** The most recent salience time "wins."
The distant past morpheme is unacceptable in (14), despite the fact that the dog was also seen a month ago.
- We fail to find instances where NT suffixes modify the NP predicate (like in Guaraní, and sometimes in Somali). But the recent past -koonye has a specialized meaning in the context of temporal nouns like 'week' or 'month.' For example, *wiik-i-koonye* (week-DEM-PAST2) means 'last week.'

7. Proposal

- The demonstrative *ni* is given the semantics of a definite determiner

(15) [[ni]] ^t = λf _{et} : ∃!x[f(x)] . ιy[f(y)]	[Heim & Kratzer 1998 a.o.]
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- NT suffixes are partial (e,e) identity functions (cf. Lewis 2014, Cable 2013). They presuppose that their individual argument was salient at some past time interval.

(16) Current past [[kaan]] ^t = λx _e : ∃t'[t' ∈ PROXIMAL(t) and x is salient at t'] . x
Recent past [[koonye]] ^t = λx _e : ∃t'[t' ∈ MEDIAL(t) and x is salient at t'] . x
Distant past [[kiinye]] ^t = λx _e : ∃t'[t' < t and x is salient at t'] . x
- [[ngòog-i-kâan]]^t = the unique x s.t. x is a dog
[defined iff there is a unique y s.t. y is a dog and there is a time t' s.t. t' ∈ PROXIMAL(t) and x is salient at t']

8. Conclusion

- The first formal account of graded tense in the nominal domain.
- For now, no evidence that Kipsigis NT modifies NP predication time. Rather, it indicates when a particular DP denotation was relevant in discourse.
- This difference is potentially linked to a cross-linguistic difference in the syntactic height or the semantic scope of nominal tense morphology.