

On the Parallelism of Extended Nominals and Clauses

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1 . Introduction*

It is well-known that structural correlations between clauses and DPs, i.e. Extended Nominal Phrases (ExNPs) have been argued in generative linguistics.¹ I have argued that both clauses and ExNPs are derived from the same abstract underlying structure to unify the derivations (Imai 1987, 1989), proposing that ExNP has INFL following Szabolcsi (1983). It is generally assumed that Tense is an inflectional category of verbal items. Thus, it was proposed that parameterization of Modal features (including Tense feature) could account for the variations of syntactic structures. Nominal Phrases lack of the Tense feature which is distinct from sentences. However, the fact is revealed that there are quite many languages in which nominals and constituents inside of NP can be inflected for Tense. In other words, they are Tensed Nominal structures.² Subsequently Tensed nominal structures across languages challenge linguistic theory. In addition to the nominal Tense system, the languages with Tensed nominals show more unexpected outcomes such as Tense stacking and Case stacking which are uncommon in languages without Tensed Nominals.³

2 . The Anatomy of Nominal Tense

In this section, we will observe some characteristics of Nominal Tense in languages illustrated in the recent work on Nominal Tense particularly by Lecarme, and Nordlinger and Sadler. According to Nordlinger and Sadler (2004b), there are in fact two types of nominal Tense, one of which is called “Independent Nominal Tense (INT) and another of which is called “Propositional Tense” on dependent nominals. Nordlinger and Sadler mention Independent Nominal TAM and Propositional TAM, where TAM stands for a set of temporal items, i.e. Tense, Aspect and Mood. But for the sake of making the story simple, I will restrict myself to Tense in nominals. The following characteristics of nominal Tense are illustrated in Nordlinger and Sadler (2004b).

(1)

i. Nouns (or other NP/DP constituents) show a distinction in one or more of the categories of tense, aspect and mood, where these categories are standardly defined as they would be for verbs. (e.g. Crystal 1997)

ii. This TAM distinction is productive across the whole word class, and not simply restricted to a small subset of forms.

iii. This TAM distinction is not restricted to nominals functioning as predicates of verbless clauses, but is selected on arguments and/or adjunct NP/DPs in clauses headed by verbs.

iv. The TAM marker is a morphological category of the nominal word class, and cannot be treated as a syntactic clitic that merely attaches to the NP/DP phonologically.

By Independent Nominal Tense, we mean Tense information being intrinsic to the nominal, and not being subject to the Tense of the clause. But more often than not the Tense of the nominal coincides with the Tense of the clause. On the other hand, Propositional Nominal Tense is another type, which provides Tense information for the whole proposition often with the Tense of the verb. We will consider those two types in some detail as we proceed. Notice that this is not an exhaustive analysis of languages in the world, hence we will find out more unexpected instances in the future.

2.1. Independent Nominal Tense

Let us first consider the examples of Tariana, an Arawak language from north-west Amazonia, Brazil:

(1) Tariana

a. future tense: -pena

b. past tense: i. Masculine, Singular: -miki-fi

ii. Feminine, Singular: -miki-fu

iii. Plural : -miki

(2)

a. wa-t/ima-fi-pena

1PL son-in-law-FUT

'our future son-in-law'

b. pi-ya-dapana-pena

2SG-POSS-house-FUT

'your future house'

c. correio-miki-fi

Post office-Past-NonFem

'old post office'

d. du-sa-do-miki-fu

3SG.NonFem-spouse-FEM-Past-FEM

'his late spouse'

(Nordlinger and Sadler (2003))

(7)

h-emí-apò-rá

his-work-FUT

'his future work'

(8)

aò-apò-hà-ré

maker of clothes-PST

'the one who made the clothes'

(Nordlinger and Sadler (2004b): 3-5)

The independence of the nominal Tense from the Tense of the whole proposition in Guaraní is seen in (9) and (10) respectively, where the propositional and nominal Tenses are independent each other.

(9)

O-va-ta che-róga-kue-pe.

3-move-FUT 1SG-house-PST-in

'He will move into my former house.'

(10)

A-va-va'ekue hóga-rã-pe.

1SG-move-PST 3.house-FUT-in

'I have moved into his future house.'

(Nordlinger and Sadler (2004b): 6 and 7)

In North American languages such as Halkomelen Salish, both nouns and verbs can be inflected for Tense with the same form in the same sentence. Note that in these instances, the Tense inflection on the verb (or verbal auxiliary) encodes Propositional Tense, and the Tense inflection on the noun encodes Independent Nominal Tense. Consider (11):

(11)

éwe-lh kw'étslexw the-l sí:l-á:-lh.

NEG. be-PST see the(f)-my grandparent-PST

'He didn't see my late grandmother.' (Brent Galloway. p. c.)

(Nordlinger and Sadler (2004b):10)

Next example shows that the object noun has Past Tense while the verb is encoded for Future Tense. This represents the independent usage of Nominal Tense and Verbal Tense.

2.2. Propositional Tense on Dependent Nominals

We find another type of Nominal Tense which attaches to dependent nominals (arguments as well as adjunct NPs verb-headed clauses) Propositional Nominal Tense involves a non-local interpretation of the Tense. It is not the case that the nominal to which Tense is attached is interpreted in the nominal itself, but the case that it is interpreted with respect to the higher clause to which the Tensed Nominal belongs.

An interesting case is Sirionó (Tupí-Guaraní, Bolivia) NPs, to which Tense can attach. It is the Tensed Nominal that determines the temporal information of the clause in which the Tensed Nominal belongs. In the language, the verb does not need to encode the Tense information.

Consider:

(16)

ési-ke óso ñá í-ra
woman-PST go near the water-to (Loc)
'The woman went near the water.'

(17)

ɛygvɬúɨ-rv ɓáe ɓɔkiacáɔ
tair-PERF thing steal. not
'The tapir did not steal from others.'

(Nordlinger and Sadler (2004b):58 and 59)

3. Theoretical Consequences

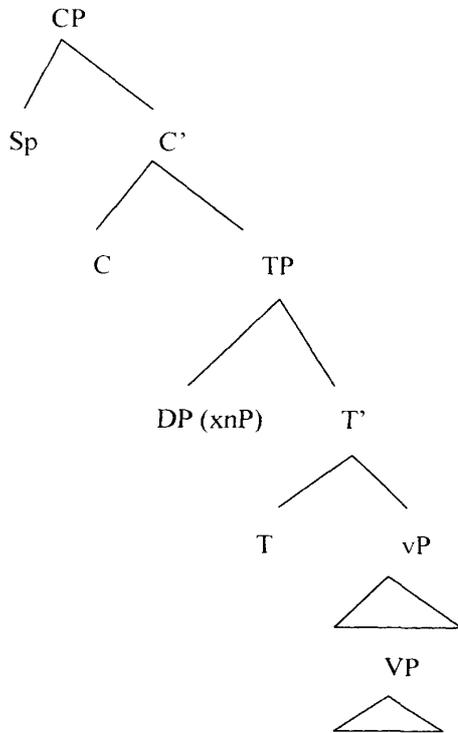
The syntactic similarity between nominals and clauses (in this sense, DP and CP) has been discussed in generative grammar tradition. The existence of Tensed Noninals (DP) may contribute to the argument for the similarity between nominal structures and sentences. The difference should be minimal in nominal vs clausal structures in view of the evolution of human language and economical/ minimalist considerations (Chomsky 2001, 2004).

Lecarme (1999) proposes the idea that the parallelism between the syntax and semantics of Nominal Tense and Verbal Tense can be accounted for by extending the proposal in Guéron and Hoekstra (1988, 1994). However, I will consider a syntactic approach to account for the parallelism between CP and DP, (ex NPs).

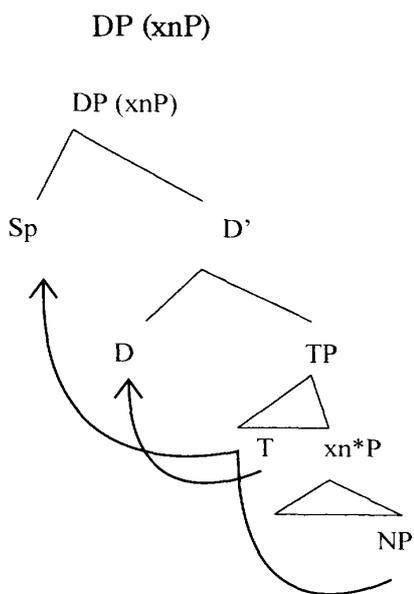
Matushansky (forthcoming) argues whether DP is a Phase or not depending on the criteria of Chomsky (2001) and Legate (2003) and has reached the conclusion that DP is unlikely to be a candidate for a Phase, even though there are some pieces of evidence for a Phase. An immediate consequence of Tensed nominal structures is straightforward. Suppose that the parallelism between CP and DP is attested, it is not so impossible to assume that DP

is a Phase, as CP is a Phase. I have given standard X-bar trees, but in fact they should be compatible with the recent MP bare structures. Note that the Spec-Head relation is in fact the Head-Head relation. Consider the following trees:

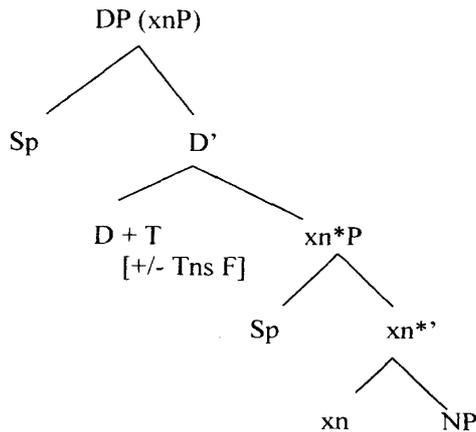
(18) Head order irrelevant



(19) Head order irrelevant



(20) Head order irrelevant DP (xnP)



Where Tns F → [+/- Past]
 → [+/- Future]

(20) is an outcome derived from (19).

4 . Concluding Remarks and Further Puzzles

In concluding what we have so far observed, we have considered the parallelism between exNPs and clauses in some natural languages and found that there exist Tensed Nominal structures. This fact may reveal exNPs (DPs) as Phases, yet we will further raise questions to solve in languages with Tensed nominals.

- 1) How can we analyze the clausal structure of Sirionó ?
- 2) How can we account for the stacked (multiple) tenses attached to the nominal?
- 3) In addition to 2), in Australian languages (eg. Warlpiri, Lardil), stacked Cases are found. Also, the similar strategy is used for Japanese Case marking. How can we explain the fact?

At this moment I confess that there exist unsolved problems to be procrastinate in the future research.

Notes

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1. For an interesting observation on the similarity of DPs and clauses in verb initial word order, see Koopman (2003).
2. For more discussion on Tensed Nominals, see Lecarme (1996, 1999, 2003, 2004a, 2004b), Nordlinger and Sadler (2003, 2004a, 2004b), Sabel (2002) among others.
3. See Sadler and Nordlinger (2004).
4. Note 5 of Lecarme (1996) quoting as saying that the initial consonant /k/ and /t/ of the definite article have various phonetic realizations, depending on the phonological nature of the last element of the noun stem. In the examples, /k/ and /t/ may be replaced by /g/, /q/, /ø/, and /d/, /sh/, respectively. The vowel of the full forms -ka/-ta [-Nom], -ku/-tu [+Nom], -kii/-tii [+Past] of the suffix may trigger regressive assimilation of the root (or stem) vowel.

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