

# 1 *The issue of structural case*

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## 1.1 Introduction: Some challenges of structural case assignment

Case in the linguistic sense is known to be a morphosyntactic device that helps to indicate – imperfectly, but often usefully – what role a noun phrase (NP, DP, etc.) has within a larger grammatical structure. But what kind of device is it exactly? This is a standard topic in morphosyntax, and has been studied extensively from many perspectives. For example, see Blake (2001) for empirical background, Butt (2006) for orientation to a range of theoretical approaches, and many contributions in Malchukov and Spencer (2009) for a sample of current perspectives. And yet there is still much to be done and much to understand, particularly from a perspective that tries to combine formal-generative explicitness and precision with a relatively broad typological awareness of the range of natural language phenomena (“Formal Generative Typology” in the sense of Baker [2010a]).

For example, nominative and accusative are two structural cases in Sakha, a Turkic language spoken in Siberia (also called Yakut) (Vinokurova [2005], Baker and Vinokurova [2010]). I begin with this language because it is not particularly familiar, but neither is it particularly strange, it being a reasonably typical nominative-accusative language. (I also happen to know something about it.) In a simple clause, the subject or agent is nominative, which is morphologically unmarked (there is no overt affix on the noun stem), whereas the object or theme, if there is one, bears an allomorph of the accusative suffix *-(n)l*.

- (1) a. Min            kel-li-m.  
          I.NOM    come-PAST-1sS  
          ‘I came.’
- b. Min    oloppoh-u    aldjat-ty-m.  
          I.NOM chair-ACC    break-PAST-1sS  
          ‘I broke the chair.’
- c. Erel            kinige-ni            atyylas-ta.  
          Erel.NOM    book-ACC    buy-PAST.3sS  
          ‘Erel bought the book.’

(Vinokurova [2005: 285])

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For this type of data, it does not matter too much whether one states the case marking principles in terms of thematic roles, grammatical functions, structural positions, or some combination of the three. All versions can get the same results because the simple examples are, well, simple.

Indeed, for some cases, there might be little more to say than this from a syntactic perspective. For example, the ablative case in Sakha is not used for core arguments or grammatical functions, and it does have a fairly straightforward meaning. To a good first approximation, it is used on all and only those NPs with the meaning ‘from’ (Krueger [1962: 84], Stachowski and Menz [1998: 429]), as in (2).<sup>1</sup>

- (2)      Bihigi beqeehee    Saaska-ttan    suruk tut.  
          we    yesterday    Saaska-ABL    letter    receive  
          ‘We received a letter from Sakha yesterday.’

(Vinokurova [2005: 241])

So we might say that the ablative suffix *-ttan* in Sakha corresponds fairly directly to the preposition *from* in English. It has a similar meaning, and it, plus the associated noun phrase, has a similar syntactic distribution – for example, as an “extra” adjunct phrase included in the larger verb phrase. We may then say that *Saaskattan* in (2) is, essentially, an adpositional phrase (PP).<sup>2</sup> That is perhaps nearly all there is to say about this sort of so-called semantic or

<sup>1</sup> As a small addendum, ablative in Sakha can also be used on causal adjuncts, like *ardaq-tan* ‘because of the rain’.

<sup>2</sup> See, for example, Blake (2001) on the functional equivalence of semantic cases and adpositions, and the diachronic relationships between them. From a generative perspective, there are two plausible ways to work this out, which are technically different. One is to say that the morpheme *-ttan* is a direct realization of the P meaning ‘from’; it appears on the noun as a result of cliticization or morphological merger (see [ia]). The other is to say that the P meaning ‘from’ corresponds to a null morpheme, but it assigns its own distinctive brand of oblique case to its NP complement, and that is realized as ablative, as sketched in (ib) (Emonds [1985: 224–237], McFadden [2004], also Baker and Kramer [2014] on Amharic, and others). Indeed, in some languages both the P and the case it assigns seem to be spelled out as separate morphemes on the noun, resulting in what can be described as bimorphemic case markers, like the Lezgian example in (ic).

- (i)      a. [Saaska+OBL FROM] → *Saaska-Ø-ttan*  
          b. [Saaska+ABL FROM] → *Saaska-ttan Ø*  
          c. [BEAR-OBL UNDER] → *sew-re-k* ‘under the bear’

(Lezgian, Haspelmath [1993: 74])

Which of these analyses is to be used for which inherent/semantic cases is presumably to be decided by careful consideration of the morphological details. (For example, does the case spread onto modifiers of the noun? Is the same case assigned by any other element? How does the oblique nominal compare with clearer instances of PP in the language, with overt separate P?) These questions are interesting on a local level, but typically do not have too much broad syntactic significance. Therefore, I do not consider them here.

inherent case with regard to syntax. And languages may have many inherent cases of this sort: for example, Finnish has eleven (Olli [1958: 35–36]) and Lezgian has fourteen (Haspelmath [1993: 74]).

But this is certainly not all there is to say about accusative or nominative in Sakha, which do not correspond to adpositions in English, which do not have consistent semantic values, and which seem to be used more dynamically. It is these so-called structural cases that this book is primarily about.

### 1.1.1 *The problem of language-particular detail*

The structural-grammatical cases are notably not like the inherent-semantic cases, in that they can change depending on the syntactic context. For example, the passive sentence in (3) contains a theme argument semantically comparable to the one in (1b). But in (3) this nominal is marked with the (null) nominative case, not with the accusative.

- (3) Caakky aldjat-ylyn-na.  
cup break-PASS-PAST.3sS  
'The cup was broken.'

(B&V: 608)

Therefore, the affix *-(n)I* cannot simply be regarded as a marker of the theme-patient thematic role, the way that *-ttan* can be regarded as a marker of the source thematic role.

Conversely, the embedded sentence in (4) has an agentive subject, comparable to the one in (1a) (Vinokurova [2005: 366]). Nevertheless, in this sentence the comer is marked accusative, not nominative.

- (4) Keskil [Aisen-y kel-bet dien] xomoj-do.  
Keskil Aisen-ACC come-NEG.AOR.3sS that become.sad-PAST.3sS  
'Keskil became sad that (because) Aisen is not coming.'

Examples like these show that one cannot state (nearly) exceptionless rules that relate these morphological markings to thematic roles like agent and patient-theme in Sakha. Indeed, one cannot state them for structural cases in most other languages either. In functionalist terms (Malchukov and De Swart [2009], Seiwerska and Bakker [2009]), the *indexing* (or *characterizing*) role of these structural cases is much less clear.

One might then switch to stating the rules of structural case marking in terms of grammatical functions like subject and object, rather than in terms of thematic roles. In these terms, a noun phrase is nominative if it is the subject of the clause, and accusative if it is the object. This type of formulation might work for (3) as well as for (1), assuming that the object of a transitive sentence corresponds to

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the subject of the passive version. But it is less clear that it works for (4). This would only work if one said that (4) (like so-called exceptional case marking in English), is an instance of “raising to object.” But there is little motivation for this in Sakha, apart from the case marking. Note that the matrix verb in (4) is an intransitive one, ‘become sad’, which is not the sort of verb that one would expect to take an object, thematic or otherwise. Indeed, it bears the anticausative suffix *-j*, which otherwise marks intransitive verbs of the unaccusative class; see Baker and Vinokurova (2010: 617–618) for discussion and further evidence.

Another problem for equating structural case directly with grammatical function is that the object in a sentence like (5) is not accusative, but rather nominative/unmarked, in contrast to (1c). This is true despite the fact that ‘book’ is clearly not the grammatical subject here, but rather *Erel* is, as confirmed by subject-verb agreement, subject-object-verb word order and other considerations. (This is an instance of so-called differential object marking (DOM); see Aissen [2003], among many others; (2) is another example.)

- (5)      *Erel*    *kinige*    *atyylas-ta*.  
         *Erel*    *book*     *buy-PAST.3sS*  
         ‘*Erel* bought a book/books.’

(Vinokurova [2005: 322])

So the structural case of an NP is not a direct function of that NP’s independently determined grammatical function, any more than it is a direct function of its thematic role.

Perhaps then we should use structural terms instead of thematic roles and grammatical functions to formulate the principles of case distribution. Indeed, in this work I claim (non-uniquely) that this is essentially the correct approach. But it is not an easy or trivial approach, because the structural differences can be subtle. For example, there is no gross syntactic difference in the position of the theme/object between (1c) and (5); if anything, the superficial difference appears to be a semantic one, whether the object is interpreted as a nonspecific indefinite (‘some book(s)’) or as specific (‘the book’ or ‘a certain book’). However, a structural difference comes to light when an adverb is included. The bare object with a nonspecific indefinite interpretation must be immediately before the verb, whereas the accusative object with a specific or definite interpretation need not be – indeed prefers not to be, as seen in (6).

- (6)      a. *Masha*    *türgennik*    *salamaat-(y)*    *sie-te*.  
         *Masha*    *quickly*     *porridge-ACC*    *eat-PAST.3sS*  
         ‘*Masha* ate porridge quickly.’ (ACC on ‘porridge’ only if it has contrastive focus)

(B&V: 602)

- b. \*Masha salamaat tūrgennik sie-te.  
 Masha porridge quickly eat-PAST.3sS  
 ‘Masha ate porridge quickly.’
- c. Masha salamaat-y tūrgennik sie-te.  
 Masha porridge-ACC quickly eat-PAST.3sS  
 ‘Masha ate the porridge quickly.’

Another sign that subtle, arguably structural differences can influence case marking in Sakha is the fact that the theme argument in a passive clause can be accusative rather than nominative (see (3)). Indeed, the theme argument must be accusative if agent-oriented adverbs like ‘intentionally’ and ‘with a hammer’ are present, as shown in (7).

- (7) Caakky-ny sorujan ötūje-nen aldjat-ylyn-na.  
 cup-ACC intentionally hammer-INST break-PASS-PAST.3sS  
 ‘The cup was intentionally broken with a hammer.’ (\* with *caakky* ‘cup.NOM’)  
 (Vinokurova [2005: 336])

Baker and Vinokurova argue that the agent-oriented adverbs in (7) imply that there is a covert agent in the syntactic representation of the clause in (7), but not in (3), and this covert agent influences the case marking on the theme.

A third sign that structural differences influence case in Sakha is that the subject of an embedded clause may be nominative as well as accusative, as in (4). Indeed, the embedded subject must be nominative if it follows an adverb that modifies the lower verb, as shown in (8b), as opposed to (8a) (B&V: 615–616).

- (8) a. Min ehigi/ehigi-ni бүгүн kyaj-yax-xyt dien erem-mit-im.  
 I you/you-ACC today win-FUT-2pS that hope-PAST-1sS  
 ‘I hoped that you would win today.’
- b. Min [sarsyn ehigi-(\*ni) kel-iex-xit dien] ihit-ti-m.  
 I(NOM) tomorrow you-(\*ACC) come-FUT-2pS that hear-PAST-1sS  
 ‘I heard that tomorrow you will come.’

This range of data shows us two things. The first is that syntactic structure has the potential to explain fine-grained differences in structural case marking that cannot be explained purely in terms of thematic role or simple grammatical function. The term “structural case” is thus not a misnomer, but points toward an important truth. The second is that it will be none too easy to get an account even in structural terms. The syntax will have to be fairly detailed to distinguish (1c) from (5), (3) from (7), and (8a) from (8b). It may not be immediately obvious how to get a unified syntactic account of these three differences, which may not seem to have much to do with each other.

Part of the challenge of structural case, then, is that it is easy to get principles of case assignment that *sort of* work, but it is hard to get ones that work *exactly*, over a broad domain in a particular language. Nor is Sakha notably more difficult than other languages in these respects. There is nothing unique to my framing of this problem; it has been a classic problem in syntactic theory for years. But it is not a solved problem. In this work, I attempt to take a big step forward in solving it.

### 1.1.2 *The problem of crosslinguistic generality*

The issue of structural case gets even harder and more interesting when it is given a crosslinguistic dimension, within a theory that has universal aspirations. We have seen that structural details matter in Sakha. They also matter in other languages, and they matter differently.

I chose a less familiar language for my initial presentation in the hope that many readers would be struck by both similarities with and differences from languages they already know. For example, there are many languages with data like (1) in Sakha, in which the object of a transitive verb is distinguished from the subject of a transitive or intransitive verb by bearing a morphological marker. They include Turkish, Tamil, Amharic, Korean, Quechua, Hopi, Russian – and even English, when one considers the differing forms of some personal pronouns. But when it comes to examples like (3)–(8), one notices unfamiliar details. For example, English has a passive, but the theme argument of a monotransitive passive must be nominative, never accusative, even in the presence of agent-oriented adverbs.

- (9) a. He was beaten on purpose with a hammer.  
b. \*Him was beaten on purpose with a hammer.

Similarly, in English the subject of an embedded clause can be marked accusative, but only if the clause is nonfinite ((10a) versus (10b)), whereas the embedded clause is finite in (8a) from Sakha. Also the embedded clause must be a complement of the matrix verb in English, whereas it can be an adjunct in Sakha, as seen in (4). This type of accusative case marking is also possible with a smaller range of matrix verbs in English than in Sakha, so (10b) is not very good with the verb *hope* (cf. (8a)).

- (10) a. I hoped/expected that she (\*her) would win today.  
b. I expected/?hoped her to win today.

Indeed, it is notable that Turkish, although it is historically related to Sakha, is more like English than like Sakha in these details (George and Kornfilt