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1. Abstract

The Kazakh (Kipchak, Turkic) tense-aspect-modality (henceforth: TAM) system features a wealth of grammatical expressions, including c. 25 auxiliary verb constructions (AVCs). Recent fieldwork has shown that certain AVCs in nonfinite clauses have special, previously undescribed properties. This paper proposes an HPSG analysis of three AVCs in three nonfinite clause types, and raises questions of compositionality. For this fairly complicated set of data, I propose a relatively simple analysis based on alternations, formalized in Online-Type Construction (Koenig, 1999; Koenig & Jurafsky, 1994).

2. Data

AVCs in Kazakh can be schematized as follows:

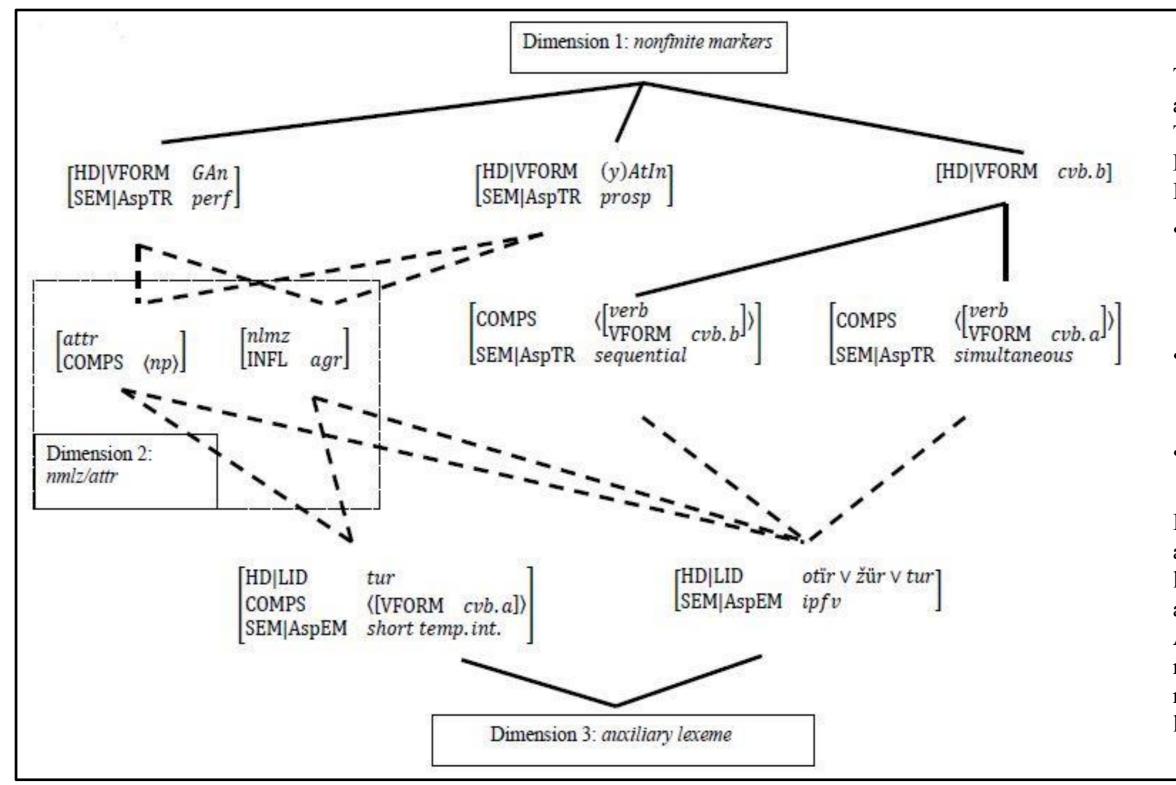
V_{lexical}-Converb.A/B + V_{auxiliary}-Inflection

2.1 The perfect and prospective aspect markers

•-*GAn* (perfective) and -(y)AtIn (prospective) mark verbs in nonfinite clauses

•They can be used as both attributivizers and nominalizers

- Attributivizers are distributed as adjectives and function as if they were relative clauses (see example 1)
- Nominalizers are distributed as NPs and function as if they were complementizers. They are always possessed, which indicates the subject (i.e. agreement), and they are frequently case-marked



(1) burïnnan earlier bala-lar

0

child-PL

Almaty-LOC qol-ï-n

Almatï-da

hand-3-ACC

oqï-p study-CVB.B köter-sin raise-IMP.3

žür-gen AUX(IPFV 'walk')-GAN.ATTR

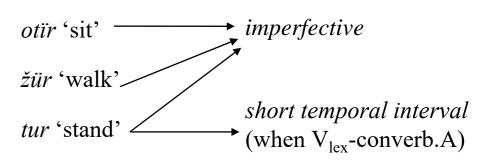
'Those children who were studying in Almaty before should raise their hands!'

Find all the relevant examples in the abstract on the conference website.

References

- Ackerman, Farrell and Olivier Bonami. 2017. "Systemic Polyfunctionality and Morphology-Syntax Interdependencies." Pp. 233-68 in Defaults in Morphological Theory, edited by A. Hippisley and N. Gisborne. Oxford University Press.
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- Koenig, Jean-Pierre. 1999. Lexical Relations. Stanford: CSLI Publications.
- Koenig, Jean-Pierre and Daniel Jurafsky. 1994. "Type Underspecification and Online Type Construction in the Lexicon." Pp. 270–285 in West Coast Conference on Formal Linguistics. Vol. 13. Stanford: CSLI Publications/SLA.
- Laca, Brenda. 2006. "Indfinites, Quantifiers and Pluractionals: What Scope Effects Tell Us about Event Pluralities." Pp. 191–217 in Non-definiteness and plurality, edited by L. Tasmowski and S. Vogeleer. Amsterdam: John Benjamins.

2.3 The auxiliary verbs



3. Analysis

The analysis is based on systematic alternations, formalized in Koenig's Online-Type Construction (see e.g. Ackerman & Bonami, 2017; Bonami & Crysmann, 2016). I assume three interacting dimensions:

- Dimension 1 encodes the restrictions of the nonfinite clause types (2.1-2.2), including the aspectual alternation of AVCs subordinated by converb B (2.2).
- Dimension 2 represents the attributivizernominalizer alternation in a purely syntactic fashion (2.1)
- Dimension 3 comprises lexical rules of the auxiliaries (2.3)

In order to account for the inheritance of aspect categories, and in line with crosslinguistic studies of aspect (e.g Laca 2006), I assume a higher aspect (Time-relational, AspTR) and a lower aspect (Event modification, AspEM). Solid lines represent normal, monotonic inheritance, while dashed lines represent free alternation.

2.2 Aspectual alternation when the AVC is marked with converb B

•Converb B functions both as a marker of the lexical verb in AVCs, and as a subordinator, marking a nonfinite clause. When Converb B subordinates an AVC with these three auxiliaries, the form of the lexical verb determines the simultaneous (~unbounded) or sequential (~bounded) reading of the entire AVC:

• $V_{lexical}$ -Converb.A + $V_{auxiliary}$ -Converb.B	\rightarrow	[AspTR simultaneous]
• $V_{lexical}$ -Converb.B + $V_{auxiliary}$ -Converb.B	\rightarrow	[AspTR sequential]