

The curious case of a two-headed phrase: the symmetrical syntax of co-compounds

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Background. Coordinative compounds (co-compounds, henceforth CCs), available e.g. in Hungarian and Khanty (Uralic; all data elicited), are pairs of morphosyntactically parallel and semantically related elements (Wälchli 2005). This is exemplified in (1-3) for Hungarian:

- (1) *János adta-vette a használt autókat.* (2) *Anti fel-alá-sétált.*
John sold-bought the used cars Tony up-down-walked
'John was trading used cars.' 'T. was walking around.'
- (3) *János megosztotta velem ügyét-baját.*
John shared me.with affair.3SG.ACC-problem.3SG.ACC
'John shared all his concerns with me.'

CCs have mostly been analysed as asyndetic coordination. In contrast, we argue that CCs do not involve coordination and, instead, are an instance of two heads undergoing Merge and being dominated by a shared layer of functional projections (cf. Borise & É. Kiss 2022). While endocentricity and the projection principle (Chomsky 1993) have been taken to mean that *exactly* one X^0 projects and heads a phrase, we argue that, as long as certain conditions (that CCs are subject to) are met, a two-headed phrase is unproblematic for the standard theoretical assumptions.

Data. CCs consist of juxtaposed lexical elements (1-3). The two components of a CC are obligatorily adjacent and closely related semantically, e.g., as taxonomic sisters (3) or antonyms/reverses (1-2). Contextually licensed CCs (e.g., the two protagonists of a story), are possible in Khanty (not in Hungarian), but here, too, a semantic relationship is required (7). In both languages, inflectional morphemes appear on both elements, with strict morphological parallelism (4, Hungarian; cf. 3; in Khanty CCs formed by countable nouns, this is manifested by obligatory dual marking, 7). An overt coordinator is prohibited (5, Surgut Khanty):

- (4) **ügy-é-t - baj-a-i-t* (5) *xɛ:nti xo (*pɛ:nə) xɛ:nti ne:*
affair-3SG-ACC – problem-3SG-PL-ACC Khanty man and Khanty woman
intended: 'his concerns' '(Kh.) people (lit. Kh. men – Kh. women)'

Analysis. We propose that a CC is formed by two syntactic heads undergoing Merge, and the morphological properties of CCs are a by-product of agreement of both CC-components with a c-commanding head. The parallel morphology results from M(orphological)-Merger (Halle & Marantz 1993), with the affixes lowering to the heads post-syntactically. We support this analysis by demonstrating that (i) if a complement is present, the two CC-components necessarily share it and (ii) any higher functional projections necessarily apply to/modify both CC-components. We further (iii) address the issue of labelling and (iv) provide arguments against treating CCs as asyndetic coordination, exocentric compounds, *pace Scalise et al (2019)*, or serial verb-like constructions (the latter two points not shown here). Finally, (v) we discuss the two semantic types of CCs, which we label conjunctive and superordinating, and address the non-referentiality/quantificational nature of the superordinating nominal CCs.

(i) In Hungarian, verbal particles act as phrasal complements to the verb (É. Kiss 2002 a.o.). A verbal CC selects for a single verbal particle, which shows that the CC-components cannot have independent complements:

- (6) *János el-tett-(*el-)vett a konyhában.*
John PRT-put.down-PRT-pick.up the kitchen.in
'John whiled away the time by moving stuff around in the kitchen.'

(ii) The components of a nominal CC cannot have different possessors; in an adjectival CC, the components cannot be modified by different adverbials. Similarly, if a modifying adjective is present, it necessarily applies to both components of a nominal CC (7, Surgut Khanty):

- (7) *Mɛ: ənəl sɔ:rt-γən ɛ:γər-γən qv:tl-əm.*
1SG big pike-DU ide-DU catch-PST.1SG
'I caught a big pike and [a big] ide.' (not: 'a big pike and an ide.')

