

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

Lena Borise (LLF, CNRS & Université Paris Cité)

Tamás Halm (HUN-REN Hungarian Research Centre for Linguistics)

Background. Co-compounds (CCs), available e.g. in Hungarian and Khanty (Uralic), are pairs of morphosyntactically parallel and semantically related elements (Wälchli 2005) (1-3, 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 goings-on with me.'

CCs have mostly been analysed as (asyndetic) coordination or a subtype of exocentric compounds (Scalise, Fábregas & Forza 2019). Building on Borise and É. Kiss (2022), we argue instead that co-compounding is a syntactic operation, with two heads undergoing Merge and being dominated by a shared layer of functional projections. While endocentricity (Chomsky 1970) and the projection principle (Chomsky 1981) have been taken to mean that *exactly* one X^0 projects and heads a phrase (Lichte 2021), 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 CC-components are obligatorily adjacent and closely related semantically: e.g., as synonyms, taxonomic sisters (3), antonyms (2), or reverses (1). 'Accidental' CCs, licensed by context (e.g. the two main protagonists of a story), are possible in Khanty (though not in Hungarian), but here, too, the elements need to be related semantically, albeit more loosely (5). Bound inflectional morphemes appear on both elements in Modern Khanty and Hungarian, with strict morphological parallelism enforced (4, Hungarian; cf. 3). In the presence of possessive marking, the possessor must be the same for both elements (5, Khanty). An overt coordinator is prohibited (5):

- (4) **ügy-é-t - baj-a-i-t* (5) *i:mp-əł (*pə:nə) ke:jkə-yəł*
affair-3SG-ACC – problem-3SG-PL-ACC dog-3SG and cat-3SG
'his goings-on' 'his/her_i dog and his/her_{i/*j} cat'

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 also address the (iii) issue of labelling and we provide arguments against treating CCs as (iv) exocentric compounds or (v) asyndetic coordination.

(i) In Hungarian, verbal particles act as phrasal complements to the verb (Piñón 1995, É. Kiss 2002, Den Dikken 2004 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) A nominal CC can only associate with a single possessor; an adjectival CC can only be modified by a single adverbial; and a modifying adjective necessarily applies to both CC-components (7, Khanty):

