

More students attended FASL than CONSOLE

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In some languages, the title of this abstract cannot be rendered with a phrasal comparative (PC, (1a)); a clausal comparative (CC, (1b)) must be used instead. Three types of analysis of PCs are evaluated, and only one – the small clause analysis – is shown to be able to accommodate this observation.

1. OBSERVATION. In Bulgarian, both PCs and CCs are possible when *more* is in positions other than the subject (e.g., (2)) (CCs have an overt *wh*-operator, which PCs lack.) The DP in PCs need not be a subject (see (2b)). When *more* is part of the subject, only CCs are acceptable (see (3)). Polish and Serbo-Croatian behave like Bulgarian. Hindi and Japanese are like English in allowing the PC variant of (3).

2. THREE TYPES OF ACCOUNTS. (2.1) CCs are usually analyzed as in (4). *Er* QRs in the matrix clause and a *wh*-operator moves to Spec, CP in the *than*-clause. The result is the LF in (4a), where *er* takes two degree predicates as arguments. The *than*-clause is pronounced after the matrix due to extraposition or late merger. Ellipsis then leads to the PF in (4b). **(2.2)** PCs have received three accounts. **(2.2.1)** The *reduction* analysis (RA) holds that the *than*-clause is the same in PCs and CCs, but ellipsis differs (Bresnan 1973, Lechner 2001, Merchant 2006, a.o.). Typically, ellipsis of TP is implicated, as in (5), with movement of the remnant *he* (and possibly movement of the matrix associate *she*). RA is challenged by the fact that the remnant behaves as if it is part of the matrix with respect to case-licensing, anaphora, negative concord and extraction. **(2.2.2)** The *direct* analysis (DA) holds that *than* has a DP complement, as in (6) (Hankamer 1973, Kennedy 1999, a.o.). The PC *er* cannot be the same as the CC *er*; compare (4a) to (6a) where *er* combines first with an individual. Bhatt and Takahashi (2007) posit a different *er* in PCs (in Hindi and Japanese), which combines first with the remnant, then with a predicate of individuals and degrees, created by movement of the associate *she* and QR of *er*, and finally with the associate, in an LF as in (6b) (cf. Heim 1985, Kennedy 1999). **(2.2.3)** The complement to *than* has been claimed to be a *small clause* (Pancheva 2006). The remnant is the subject of predication and is ECM-ed by *than*, thus exhibiting the syntactic properties of a complement to a preposition. Modifying this analysis by introducing a *wh*-operator we get (7). The *wh*-operator can only move up to the edge of vP, as there is no CP. The LF of (7a) is minimally different from that of (4a) and the same *er* is involved. At PF, the predicate of the small clause is obligatorily elided, given the unchecked *wh*-features of the degree operator.

3. COMPARING THE ANALYSES. (3.1) Under RA, (3) is mysterious. In both the PC and CC versions, the *than*-clause has the structure in a) with TP elided. The difference is only in the pronunciation of the *wh*-operator. There is no reason why that should be obligatory in (3)/(8a) but not in (2b)/(8b) or (2a)/(8c). Moreover, in other languages the difference between PCs and CCs is reflected not in the pronunciation of the *wh*-operator, but in the type of *than* (e.g., Polish *niz* vs. *od*), yet the facts of (3) are the same. **(3.2)** DA too cannot explain (3). For the PC, it posits (9a), which should be just as good as (9b), the structure for the PC (2b), or as (9c), the structure for the PC (2a). QR of *er* from the subject of the matrix in (9a) cannot be blamed for the unacceptability, as the same QR obtains in the matrix of the acceptable CC version of (3) ((9d)). And if the associate *FASL* moves as well, for the licensing of ellipsis, (9d) and (9a) become even more similar. **(3.3)** The small clause analysis posits (10) for the *than*-clause in the PC in (3). The acceptable PC in (2b) has the structure in (10b), and the PC in (2a) has the structure in (10c). We suggest that (10a) is unacceptable because the *wh*-operator originates inside the subject in Spec, vP. In contrast, in (10b,c) the *wh*-movement originates inside the complement of *v*. But we also need a modification to (10a): in the Bulgarian-type languages it is not just the degree *wh*-operator that moves, rather the whole DP *wh-many students* has to move (11). This is so because these languages prohibit extraction out of subjects. Hindi and Japanese, on the other hand, allow such extraction (e.g., Stepanov 2001) and so (10a) is acceptable. (11) would be interpretable, if allowed. Yet this movement is prohibited as too local. The specifier of vP cannot target the vP as it will only recreate its original position (e.g., Abels 2003 on anti-locality in movement). In the CC version of (3) the problem does not arise since the subject DP *wh-many students* moves to Spec, CP. Finally, as the title suggests, English allows what appears to be the PC version of (3). Yet, since English does not allow extraction out of subjects, this must be a case of a CC (as also suggested by Bhatt and Takahashi 2007).

- (1) She attended more FASLs ...
 a. ... than him. (PC)
 b. ... than he did. (CC)
- (2) a. Ivan poseti poveče konferencii ot (kolkoto) Maria.
 Ivan attended more conferences than how-many Maria
 ‘Ivan attended more conferences than Maria (did)’.
 b. Ivan poseštava FASL po-često ot (kolkoto) CONSOLE.
 Ivan attends FASL more-often than how-much CONSOLE.
 ‘Ivan attends FASL more often than CONSOLE’.
- (3) Poveče studenti posetixa FASL ot *(kolkoto) CONSOLE.
 more students attended FASL than how-many CONSOLE
 ‘More students attended FASL than CONSOLE’.
- (4) er_1 [she attended d_1 -many FASLs] than [_{CP} wh_2 he did attend d_2 -many FASLs]
 a. [$er \lambda d_2$ [he did attend d_2 -many FASLs]] λd_1 [she attended d_1 -many FASLs]
 b. er_1 [she attended d_1 -many FASLs] than [_{CP} wh_2 he did attend d_2 -many FASLs]
- (5) er_1 [she attended d_1 -many FASLs] than [_{CP} wh_2 he₃ [_{TP} x_3 attended d_2 -many FASLs]]
- (6) er_1 [she attended d_1 -many FASLs] than [_{DP} him]
 a. [er [him]] λd_1 [she attended d_1 -many FASLs]
 b. she [[er [him]]] $\lambda d_1 \lambda x_2$ [x_2 attended d_1 -many FASLs]]
- (7) er_1 [she attended d_1 -many FASLs] than [him₃ wh_2 [_{VP} x_3 attend d_2 -many FASLs]]
 a. [$er \lambda d_2$ [he attend d_2 -many FASLs]] λd_1 [she attended d_1 -many FASLs]
 b. er_1 [she attended d_1 -many FASLs] than [him₃ ~~wh_2 [_{VP} x_3 attend d_2 -many FASLs]]~~]
- (8) a. (*) ... than [_{CP} wh_2 CONSOLE₃ [_{TP} ~~d_2 -many students attended x_3~~]]
 b. ... than [_{CP} wh_2 CONSOLE₃ [_{TP} Ivan attends x_3 d_2 -often]]
 c. ... than [_{CP} wh_2 Maria₃ [_{TP} ~~x_3 attended d_2 -many conferences~~]]
- (9) a. * FASL [[er [CONSOLE]]] $\lambda d_1 \lambda x_2$ [_{TP} d_1 -many students attended x_2]]
 b. FASL [[er [CONSOLE]]] $\lambda d_1 \lambda x_2$ [_{TP} Ivan attends x_2 d_1 -often]]
 c. Ivan [[er [Maria]]] $\lambda d_1 \lambda x_2$ [_{TP} x_2 attended d_1 -many conferences]]
 d. er_1 [_{TP} d_1 -many students attended FASL] ...
- (10) a. * ... than [CONSOLE₃ ~~wh_2 [_{VP} d_2 -many students attended x_3]]~~]
 b. ... than [CONSOLE₃ ~~wh_2 [_{VP} Ivan attends x_3 d_2 -often]]~~]
 c. ... than [Maria₃ ~~wh_2 [_{VP} x_3 attended d_2 -many conferences]]~~]]
- (11) * ... than [CONSOLE₃ ~~wh_2 -many students [_{VP} d_2 -many students attended x_3]]~~]

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