

2 Multiple *wh*-fronting in Slavic

What happens if you have multiple *wh*-phrases in a question? Consider English:

- (2) Alex will give some book to some friend.
- (3) a. *Which book* will Alex give ___ to *which friend*?
b. *Which friend* will Alex give *which book* to ___?
- (4) a. * *Which book which friend* will Alex give ___ to ___?
b. * *Which friend which book* will Alex give ___ to ___?

English requires exactly one *wh*-phrase to move to the beginning of the question.

- (5) a. *What* will Alex give ___ to *who(m)*?
b. * *Who(m)* will Alex give *what* to ___?

If there are two *wh*-words (not *wh*-phrases), the higher must move.

(Recall: This is Superiority, an NP asymmetry.)

In contrast to English, Bulgarian, Serbo-Croatian, Romanian, and Russian are all *multiple wh-fronting* languages. All data here is Bulgarian, mostly from Bokovi 2002.

- (6) a. *Koj kakvo e kupil?*
who what PAST bought
'Who bought what?'
- b. * *Koj e kupil kakvo?*
- c. * *Kakvo koj e kupil?*

(6) shows that Bulgarian requires both *wh*-phrases to move to the beginning of the question.

- (6b) shows that the lower *wh*-phrase cannot be in-situ;
- (6a) shows that the order of *wh*-phrases must obey Superiority.

(7) shows that the same holds for long-distance movement.

- (7) a. *Koj kakvo misli Ivan [e ___ obuslavlja ___]?*
who what thinks Ivan that conditions
'Who does Ivan think conditions what?'
- b. * *Koj misli Ivan [e ___ obuslavlja kakvo]?*
who thinks Ivan that conditions what
Intended: 'Who does Ivan think conditions what?' =(a)

But something strange happens if the two *wh*-words are identical. Only one *wh*-word moves!¹

- (8) a. **Kakvo kakvo* obuslavlja?
what what conditions
b. *Kakvo* obuslavlja *kakvo*?
what conditions what
'What conditions what?'
- (9) a. **Kakvo kakvo* misli Ivan e obuslavlja?
what what thinks Ivan that conditions
Intended: 'What does Ivan think conditions what?'
b. *Kakvo* misli Ivan e obuslavlja *kakvo*?

Bokovi 2002 argues that this data is best explained by the Copy Theory: *wh*-phrases all move, but then their pronunciation (highest or lowest copy) is decided at PF, after everything is built. In general, the highest copies are pronounced (all overt movements) but this is blocked if the result would have two homophonous *wh*-words right next to each other.

- (10) *Kakvo* postojanno *kakvo* obuslavlja?
what always what conditions
'What always conditions what?' (Snejana Iovtcheva, p.c.)

Example (10) shows that multiple *wh*-fronting returns if an adverb can be added to break up the two identical *wh*-words.

References

- Bokovi, eljko. 2002. On multiple *wh*-fronting. *Linguistic Inquiry* 33:351–383.
Chomsky, Noam. 1995. *The minimalist program*. MIT Press.
May, Robert Carlen. 1977. The grammar of quantification. Doctoral Dissertation, Massachusetts Institute of Technology.
May, Robert Carlen. 1985. *Logical form: Its structure and derivation*. MIT Press.

¹Snejana Iovtcheva (p.c.) tells me that the facts in Bulgarian are more complicated than described in Bokovi 2002; in particular, examples such as (8) is grammatical for Snejana and some other Bulgarian speakers. I present judgments reported by Bokovi here.