Quantifier scope and the argument structure of Polish ditransitives

Paulina Łęska Adam Mickiewicz University, Poznań

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The aim of this study was to investigate quantifier scope in Polish ditransitives with two object orders, as in (1), which could unveil their underlying structure. In particular, two assumptions were tested, namely (i) whether there is a correlation between the availability of short scrambling and scope changing mechanisms in Polish and if yes, (ii) which of these mechanisms leads to scope ambiguity. Languages which allow word order permutations freely are argued to be more restricted as for the use of covert operations such as QR (Szabolcsi 1997; Ionin 2003). If, however, scope ambiguity in ditransitives is attested, two different mechanisms can be responsible for it, i.e. QR or scope reconstruction (Lechner 1996). Depending on which of these mechanisms is at play, different basic object orders can be proposed. If it is a freely applying QR of the two quantified objects, the order which is ambiguous can be either basic or derived (as proposed in Antonyuk 2015, Boneh and Nash 2018), but if scope reconstruction produces ambiguity, the object order which is ambiguous must be derived, as proposed in Bobalijk and Wurmbrand (2012), Lechner (1998, 2016).

To test which of these mechanisms could be responsible for scope ambiguity in Polish ditransitives, if such is attested, I used quantifier embedding in coordination. It is well known that QR in general obeys the coordinate structure constraint (CSC, Ross 1967), as claimed in Lakoff (1970), Ruys (1992), Fox (1995) among others. This claim is supported by evidence from Inverse Linking contexts shown in (2) for English (Ruys 1992: 33) which can be observed also for Polish (3). Examples in (2-3a) have the reading in which every takes scope over someone and binds the variable pronoun it. However, when the quantifier *every* is embedded in one conjunct, as in (2-3b), the variable reading is unavailable, which is due to the inability of *every* to undergo QR due to CSC. Since scope reduction is possible only in derived contexts, the prediction is that if the object order which allows for scope ambiguity does so regardless of quantifier embedding, it is possibly a derived one.

To test these assumptions, a questionnaire was conducted (modelled on Anderson (2004) for English). The sentences were built on two binary variables, namely the order of objects, i.e. IO_{DAT}>DO_{ACC} vs. DO_{ACC}>IO_{DAT} and quantifier embedding in coordination, and they included verbs which select for high datives (free datives, e.g. *otworzyć* 'open', *zamknąć* 'close'), and low datives (e.g. *wysłać* 'send', *przekazać* 'hand over') for comparison of the two structures, see (4). Each sentence was followed by a comprehension question with two possible answers corresponding to two scope readings. The questionnaire was completed by 72 native speakers of Polish (60 women, 12 men; M_{age} = 22.86, SD = 2.52), all graduates of higher education. The results showed that only the DO_{ACC}>IO_{DAT} order allows for scope ambiguity and it does so regardless of coordination (5-6). This suggests that it is scope reconstruction that is at work, and, consequently, that DO_{ACC}-IO_{DAT} could be a derived object order.

word count: 500

- (1) Jan dał Marii książkę/ książkę Marii. John gave Marydat bookacc/ bookacc Marydat
- (2) a. Someone from every city_i hates it_i

b. *Someone from every cityi and my father hate iti

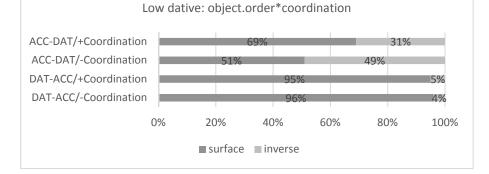
(3)	a. Ktoś	z każdego miastai	nienawidzi goi.	
	Someone	from every city	hates it	
	b. *Ktoś	z każdego miasta _i	i mój ojciec	nienawidzą go _i .
	Someone	from every city	and my father hates it	

(4) *Po powrocie z Grecji*,

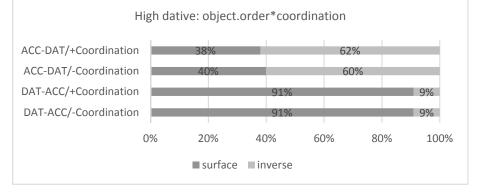
After coming-back from Greece,

	The coming buck nom sicces,							
a.	Marek wysłał	jakiejś koleżance	(pocztówkę i) każde	zdjęcie z podróży.				
	Marek sent	some friend _{DAT}	(postcard and) every	photoACC from trip				
	Q: Ilu koleżanko	m wysłano zdjęcia?	A: a) Jednej	b) Kilku				
	How-many friend	ds got photos	one	several				
b.	Marek wysłał	jakieś zdjęcie z podró	óży (Adamowi i)	każdej koleżance.				
	Marek sent	some photoACC from	trip (Adam and) e	very friend _{DAT}				
	Q: Jakie zdjęcia wysłano koleżankom? A: a) Wszystkim takie same b) Róz							
	What-kind-of photos were-sent friends everyone the same different							

(5) % of surface vs. inverse scope reading responses for sentences with low datives



(6) % of surface vs. inverse scope reading responses for sentences with high datives



Selected references: Antonyuk, S. 2015. "Quantifier Scope and Scope Freezing in Russian". Doctoral dissertation, Stony Brook University, Stony Brook, NY. Bobaljik, J. D. and S. Wurmbrand. 2012. "Word order and scope: Transparent interfaces and the 3/4 Signature", *Linguistic Inquiry* 43, 371-421. Ionin, T. 2003. "The one girl who was kissed by every boy: Scope, scrambling and discourse function in Russian". In Van Koppen, M. et al. (eds.), *Proceedings of ConSole X.* Leiden: Leiden University, 79-94. Lechner, W. 1996. "On semantic and syntactic reconstruction". *Wiener Linguistische Gazette* 57–59. 63–100. Ross, J. R. 1967. "Constraints on variables in syntax". Doctoral dissertation. Cambridge, Mass: MIT. Szabolcsi, A. 1997. "Strategies for scope taking". In: Szabolcsi, A. (ed.), *Ways of scope taking*. Dordrecht: Kluwer. 109–154.