Adjectival Quantification and Definiteness in Bangla

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Adjectival quantification in natural language semantics is broadly distributed and poses a challenge for any unified semantic analysis. Adjectives of quantity occur in quantificational position as well as attributive, predicative and differential positions (Kayne 2007, Szabolcsi 2010, Morzycki 2013, Cinque 2014, Bagchi 2014, Solt 2009, 2015). However, the adjectives of quantity are mostly gradable predicates and degree modifiers (e.g. /fewer students/, /a little more water/ etc.). Although, the theories of definiteness (Heim 1979, Lyons 1999, Keenan 2003, Winter 2005, Giannakidou 2009, Collins 2016), are primarily restricted to the analysis of the definite determiners or classifiers and the definite adjectives (i.e. cardinal+ ordinal numbers), the adjectives of quantity have not been adequately inquired into in respect to the semantic notion of definitenes. Therefore, this paper proposes an analysis of the encoding of definiteness in adjectival quantificational phrases in Bangla. This phenomenon can be observed in the example (1):

- 1. č^hatroder (modd^he) snekei porikk^hae b^halo nsmbor peyəč^he
 - \check{c}^{h} atro der modd^he oneke i porikk^ha e b^halo nombor peyəč^he
 - student -gen. -par. many -foc exam -loc good number got.perf.
 - "Many of the students have got good marks in exams."

Interestingly, here, the adjectival quantity word /nek/ has occurred in a partitive phrase where it implicitly denotes definiteness. Here, the focus marker /-i/ is notable. Other than that, the quantity adjectives can also directly occur as degree modifier to a cardinal number (in a DP) and encode definiteness. So, in the following example (2), we observe the definiteness that is expressed by quantity adjective / ontoto/:

 klass šešer age ami ontoto (lainer) poroborti dudzon č^htror k^hata dek^hbo klass šeš er age ami ontoto lain –er. poroborti du dzon č^hatro -r k^hata dek^hbo

class end -gen. before I at least queue -gen.next two -cls. student -gen. copy check.fut. "I will check copies of at least next two students (in a queue) before the class ends."

Moreover, the adjectival quantity words signal both definiteness (e.g. 3& 4) and indefiniteness (e.g. 5). Furthermore, the focus marker /-i/ reinforces definiteness of the adjectival quantifier (e.g. 3&4). Sometimes they occur with overt definiteness marker (i.e. classifier & plural marker) and other times they covertly denote definiteness (e.g. 1). Such as:

- 3. ami onekta i lik^he p^heleč^hi tai tomake sõnd^her modd^he golpogulo pat^hate parbo
 - ami onek ta i lik^he p^heleč^hi tai toma ke sõnd^her modd^he golpo gulo pat^hate parbo I most -cls. –foc. write -aux. so you -acc. evening during story -plu. send mod. "I have written most of it, so I would be able to send you the stories by evening."
- 4. Jhumur oder koledzer pat^hokrome deya boier onekguloi poreč^he Jhumur oder koledz -er pat^hokrom -e deya boi -er onek gulo i poreč^he Jhumur their college -gen. syllabus -loc. give.ps. book -gen. many -plu. -foc. read.perf. "Jhumur has read most of the books that are given in their college syllabus."
- 5. Ram oneki kaj kore, kintu tao sontuštţ^hi paena Ram onek i kaj kore, kintu tao sontuštţ^hi pae na Ram many –foc work do.pres. but still satisfication get neg. "Ram works a lot but is never satisfied."

Intuitively, the adjective quantity words inherently encode a scalar range (Kennedy & McNally 2005); however, the scalar range is exhausted only when they occur in modified numeral phrases. In contrast, when they occur in partitive constructions and when they quantify over a definite kind or set, they signal definiteness. This paper presents an overview of the semantic distribution of the adjective quantity words in Bangla. It then goes on to examine the encodings of the semantic feature of definiteness in adjectival quantificational phrases in Bangla and argue that it relates to the syntax of focus (Rooth 1992) in Bangla as well.

References:

Abbott, B. 2004. "Definiteness and indefiniteness". in The handbook of pragmatics.122-149.

Bagchi, T. 2014. "The scalar quantification of onek "many" in Bangla." Paper presented at

Thirtieth South Asian Languages Analysis Roundtable (SALA 30) International Conference: University of Hyderabad. February 6-8.

Cinque, G. 2014. "The semantic classification of adjectives: A view from syntax." *Studies in Chinese Linguistics* 35.1:1-30.

Collins, J.N. 2016. "Reasoning about definiteness in a language without articles". In Semantics and Linguistic

Theory .26:82-102.

- Dasgupta, P. 1988."Bangla quantifier extraction, unaccusative in situ, and the ECP." *Linguistic Inquiry* 19.4: 691-698.
- De Swart, H. 2000. "Scope ambiguities with negative quantifiers." In H.K. von Heusinger.

and U. Egli. (eds). Reference and Anaphoric Relations. Netherlands: Springer. 109-132.

- Geurts, B. and Nouwen, R. 2007. "At least et al.: The semantics of scalar modifiers." Language 83.3: 533-559.
- Giannakidou, A. and Monika, R, 2009. (eds). Quantification, Definiteness, and Nominalization. UK:

Oxford University Press: Series Oxford Studies in Theoretical Linguistics.

Hackl, M. 2001. "Comparative quantifiers". PhD. Dissertation. MA: MIT.

http://web.mit.edu/hackl/www/papers/files/NThesis5.pdf. (accessed 4 July, 2016).

Heim, I. 1979. "Towards a unified semantics of definite and indefinite noun phrases". Ph.D. Dissertation.

Amherst:UniversityofUniversityofMassachusetts.http://semanticsarchive.net/Archive/DgxNzliM/1979%20unified%20definite%20indefinite.pdf.(accessed 31st October, 2017).

- Horn, L. 1972. "On the Semantic Properties of Lexical Operators in English". UCLA Dissertation. Distributed by Indiana University Linguistics Club. 1976.
- Kayne, Richard S. 2007. "Several, few and many". Lingua 117: 832-858.
- Keenan, E.L. 2003. "The definiteness effect: semantics or pragmatics?". in Natural Language

Semantics. 11(2):187-216.

Kennedy, C. and McNally, L. 2005. "Scale structure, degree modification, and the semantics of gradable

predicates." Language. 345-381.

- Lyons, C. 1999. Definiteness. Cambridge: Cambridge University Press.
- Morzycki, M. 2013. "The lexical semantics of adjectives: More than just scales." Ms.,

Michigan State University. Draft of a chapter in *Modification*, a book in preparation for the Cambridge University Press series *Key Topics in Semantics and Pragmatics*. http://semanticsarchive.net/Archive/TM2MDA4O/. (accessed 17 May, 2016).

Rooth, M.1992. "A theory of focus interpretation". Natural language semantics, 1(1):75-116.

Solt, S. 2007. "Few more and many fewer: complex quantifiers based on many and few". in

Rick Nouwen & Jakub Dotlacil .(eds). *Proceedings of the ESSLLI 2007 .Workshop on Quantifier Modification*. <u>http://www.zas.gwz-berlin.de/fileadmin/mitarbeiter/solt/ESSLLI_Handout_-_Solt.pdf</u>. (accessed 25 July, 2016)

Szabolcsi, A. 2010. Quantification. Cambridge: Cambridge University Press.

Von Heusinger, K.2002. "Specificity and definiteness in sentence and discourse structure". Journal of

semantics. 19(3), pp.245-274.

Winter, Y. 2005. "On some problems of (in) definiteness within flexible semantics". Lingua, 115(6): 767-786.