Case, Binding, and the Organization of the Grammar

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1. Evidence for Raising

- A. 'Boundary strength' phenomena
- 1) I believe John to have convinced Bill
- (2) I believe that John convinced Bill
- (3) I believe Bill to have been convinced by John
- (4) I compelled the doctor to examine John
- (5) I compelled John to be examined by the doctor
- (6) I believe there to be a man in the garden(7) I believe advantage to have been taken of John
- (8) *I forced there to be a man in the garden
- (9) *I forced advantage to have been taken of John
- (10)a. Jack believed Joan to be famous
 - b. Joan was believed to be famous by Jack
- (11)a. *Jack; believed him; to be immoral
- b. Jack_i believed himself_i to be immoral
 They believed each other to be honest
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B. 'Height' phenomena

- (13) The FBI proved that few students were spies
- (14) The FBI proved few students to be spies
- (15) Joan believes he_i is a genius even more fervently than Bob_i does
- (16) *Joan believes him; to be a genius even more fervently than Bob; does
- (17) *Joan believes him; to be a genius even more fervently than Bob; believes him; to be a genius
- (18) ?Mary believes him_i to be a genius, and Bob_i does too
- (19) *Bob; believes him; to be a genius
- (20) ?Mary believes Bob; to be a genius, and he; does too
- (21) *He; believes Bob; to be a genius
- (22) Joan believes he is a genius even more fervently than Bob's, mother does
- (23)?*Joan believes him; to be a genius even more fervently than Bob's; mother does
- (24)?*Joan believes him; even more fervently than Bob's; mother does
- (25) ?The DA proved [the defendants to be guilty] during each other's trials
- (26) ?The DA accused the defendants during each other's trials
- (27)?*The DA proved [that the defendants were guilty] during each other's trials
- (28) No one saw anything

- (29) *Anyone saw nothing
- (30) The DA accused none of the defendants during any of the trials
- (31) ?The DA proved [none of the defendants to be guilty] during any of the trials
- (32)?*The DA proved [that none of the defendants were guilty] during any of the trials
- (33) The students solved three problems each
- (34) *Three students each solved the problems (i.e., on the reading 'The problems were solved by three students each')
- (35) *The students proved that three formulas each were theorems (i.e., on the reading 'Each of the students proved that three formulas were theorems')
- (36) ?The students proved three formulas each to be theorems
- (37) Jones proved the prisoners quilty with one accusation each
- (38) Jones proved the defendants to be guilty with one accusation each
- (39) Jones prosecuted the defendants with one accusation each
- (40)??Jones proved that the defendants were guilty with one accusation each

2. Raising Questions

If we succeed in eliminating recourse to c-selection as well as phrase structure rules, thus reducing syntactic representations at D-structure to projections of semantic properties of lexical items, it will follow that the complement of any lexical head in a syntactic representation must be s-selected by it, because there is no other way for the position to exist. For example, there cannot be such sentences as (68), where V is a verb that does not s-select an object and there is a pleonastic element...lacking any semantic role...

...Similarly, we cannot have "raising to object" to yield (70ii) (with \underline{e} the trace of \underline{Bill}) from the D-structure (70i):

i John [vpbelieves <u>e</u> [sBill to be intelligent]] ii John [vpbelieves Bill [se to be intelligent]]

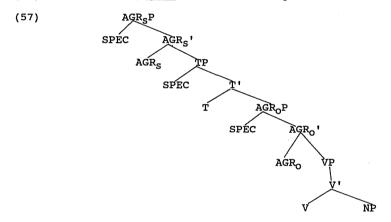
The verb <u>believe</u> s-selects only a proposition. Therefore, in (70i) the position occupied by <u>e</u> cannot exist at D-structure, because it is not s-selected by <u>believe</u>. [Chomsky (1986, pp.90-91]

- (41) I dislike it that he is so cruel
- (42) I didn't suspect it for a moment that you would fail
- (43) I regret it very much that we could not hire Mosconi
- (44) I resent it greatly that you didn't call me

- (45) I don't mind it very much that he did that
- (46)??I dislike him to be so cruel
- (47)?*I didn't suspect you to have failed
- (48) *I regret them not to have hired Mosconi
- (49) *I resent you not to have called me
- (50) *I don't mind him to have done that
- (51) I believe (??it) that John left
- (52) I will prove (?*it) that Mary is the culprit
- (53) They have found (*it) that there is a prime number greater than 17
- (54) I will show (*it) that the Coordinate Structure Constraint is valid

3. Licensing of Accusative Case via LF SPEC-Head Agreement

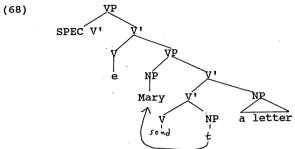
- (55) Why is raising obligatory?
- (56) How does an object c-command an adjunct?



4. Domain Asymmetries in Double Object Constructions

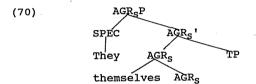
- (58) I showed John himself (in the mirror)
- (59) *I showed himself John (in the mirror)
- (60) I showed the professors each other's students
- (61) *I showed each other's students the professors
- (62) I denied each worker, his, paycheck
- (63) *I denied its; owner each; paycheck
- (64) I gave each trainer the other's lion
- (65) *I gave the other's trainer each lion
- (66) I gave no one anything

(67) *I gave anyone nothing

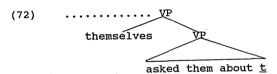


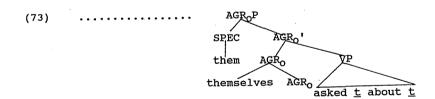
5. Anaphors and LF

(69) They injured themselves



(71) I asked them about themselves





6. S-Structure Binding Requirements? An Apparent Contradiction

- (74) Which book that John; read did he; like
- (75) *He, liked every book that John; read

- (76) $John_i$ wonders which picture of $himself_i$ Mary showed to Susan
- (77) *John; wonders who showed which picture of himself; to Susan

(78) There arrived a man

(79) A man arrived t

- (80) There arrived two knights on each other's horses
- (81) two knights arrived t on each other's horses
- (82) The DA proved [two men to have been at the scene] during each other's trials
- (83) *The DA proved [there to have been two men at the scene] during each other's trials
- (84) Some politician is likely to address John's constituency
- (85) It is likely that some politician will address John's constituency
- (86) It is unlikely that anyone will address the rally
- (87) *Anyone is unlikely to address the rally
- (88) Someone is unlikely to address the rally

References

- Barss, A. (1986) Chains and Anaphoric Dependence: On Reconstruction and its Implications, Ph.D. Dissertation, MIT.
- Barss, A. and H. Lasnik (1985) "A Note on Anaphora and Double Objects," <u>Linguistic Inquiry</u> 17:347-54.
- Bresnan, J. (1972) <u>Theory of Complementation in English Syntax</u>, Ph.D. Dissertation, MIT.
- Chomsky, N. (1973) "Conditions on Transformations," in S.R. Anderson and P. Kiparsky, eds., <u>A Festschrift for Morris Halle</u>, Holt, Rinehart and Winston.
- Chomsky, N. (1981) Lectures on Government and Binding, Foris.
- Chomsky, N. (1986) Knowledge of Language: Its Nature, Origin, and Use, Praeger.
- Chomsky, N. (1991) "Some Notes on Economy of Derivation and Representation," in R. Freidin, ed., <u>Principles and</u> <u>Parameters in Comparative Grammar</u>, MIT Press.
- Chomsky, N. and H. Lasnik (in press) "Principles and Parameters Theory," in J. Jacobs et. al., eds., <u>Syntax: An International Handbook of Contemporary Research</u>, Walter de Gruyter.
- Hoekstra, E. (1991) "On Double Objects in English and Dutch," in K. Leffel and D. Bouchard, eds., <u>Views on Phrase Structure</u>, Kluwer.
- Kiparsky, P. and C. Kiparsky (1970) "Fact," in M. Bierwisch and K.E. Heidolph, eds., <u>Progress in Linguistics</u>, Mouton.
- Langacker, R.W. (1969) "On Pronominalization and the Chain of Command," in D.A. Reibel and S.A. Schane, eds., <u>Modern Studies in English</u>, Prentice-Hall.

- Lasnik, H. (1976) "Remarks on Coreference," <u>Linguistic Analysis</u> 2:1-22.
- Lasnik, H. (in press) "Two Notes on Control and Binding," in R.K. Larson, et al., eds., <u>Control and Grammar</u>, Kluwer.
- Lasnik, H. and M. Saito (1991) "On the Subject of Infinitives," CLS.
- Lasnik, H. and M. Saito (1992) Move-α, MIT Press.
- Lebeaux, D. (1983) "A Distributional Difference Between Reciprocals and Reflexives," <u>Linguistic Inquiry</u> 14:723-30.
- McCawley, J.D. (1988) "Review Article on Knowledge of Language:
- Its Structure, Origin, and Use," Language 64:355-365.
 May, R. (1977) The Grammar of Quantification, Ph.D. Dissertation,
- MIT.
 Pesetsky, D. (1982) <u>Paths and Categories</u>, Ph.D. Dissertation, MIT.
- Pica, P. (1987) "On the Nature of the Reflexivization Cycle," NELS 17.
- Pollock, J.-Y. (1989) "Verb Movement, Universal Grammar, and the Structure of IP," Linguistic Inquiry 20:365-424.
- Postal, P.M. (1974) On Raising: One Rule of English Grammar and its Theoretical Implications, MIT Press.
- Postal, P.M. and G.K. Pullum (1988) "Expletive Noun Phrases in Subcategorized Positions," <u>Linguistic Inquiry</u> 19:635-70.
- Rosenbaum (1967) The Grammar of English Predicate Complement Constructions, MIT Press.
- Safir, K. (1985) <u>Syntactic Chains</u>, Cambridge University Press. Safir, K. and T. Stowell (1988) "Binominal Each," NELS 18.
- Uriagereka, J. (1988) <u>On Government</u>, Ph.D. Dissertation, University of Connecticut.