

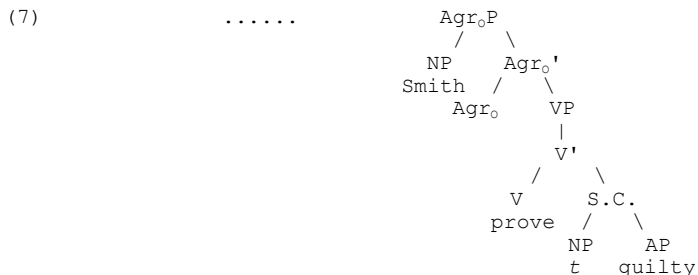
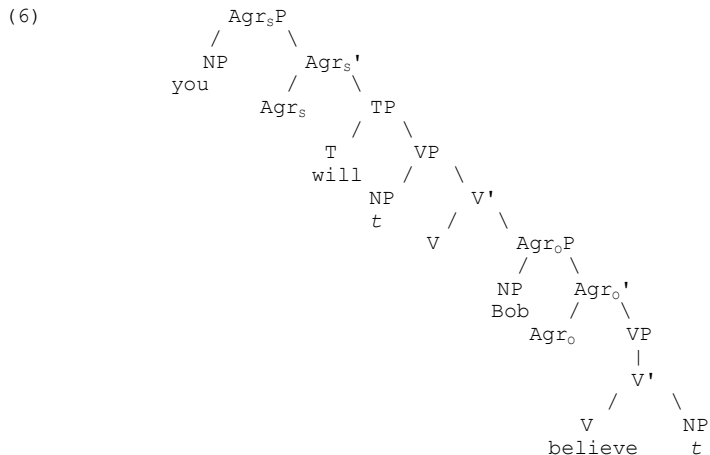
When Can You Save a Structure by Destroying It?

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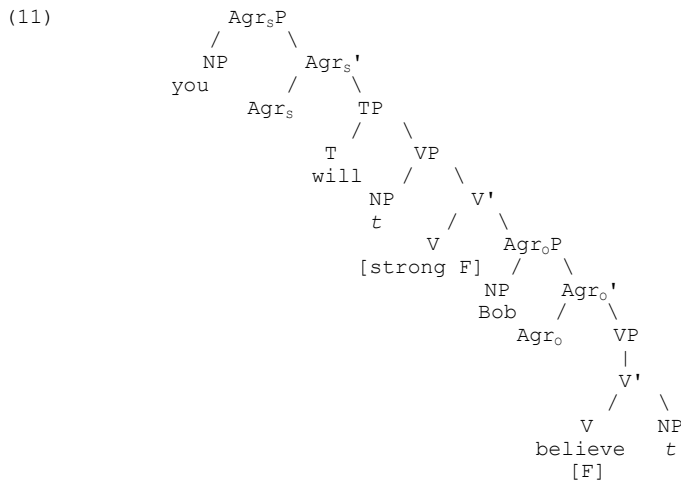
I. Strong features, defective PF objects, and ellipsis

A. Pseudogapping and V Raising

- (1) a If you don't believe me, you will \emptyset the weatherman
- b I rolled up a newspaper, and Lynn did \emptyset a magazine
- c Kathy likes astronomy, but she doesn't \emptyset meteorology
 Levin (1978)
- (2) a The DA proved Jones guilty and the Assistant DA will
 ~~prove~~ Smith ~~guilty~~
- b ?John gave Bill a lot of money, and Mary will ~~give~~ Susan
 ~~a lot of money~~
- (3) You might not believe me but you will Bob
- (4) NP-raising to Spec of Agr_o ('Object Shift') is overt in
 English. [Koizumi (1993); Koizumi (1995), developing
 ideas of Johnson (1991)]
- (5) Pseudogapping as overt raising to Spec of Agr_o (driven by
 an EPP requirement of Agr) followed by deletion of VP.
 [Lasnik (1995a)]



- (8) *You will Bob believe
- (9) *The Assistant DA will Smith prove guilty
- (10) V raising is normally obligatory driven by a strong
 feature of the 'shell' V.



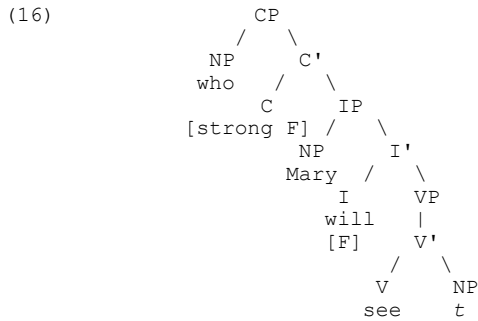
- (12) Once the matching feature of the lower lexical V is
 'attracted', the lower V becomes phonologically
 defective. A PF crash will be avoided if either pied-
 piping (normal V raising) or deletion of a category
 containing the lower V (VP Deletion = Pseudogapping in
 the relevant instances) takes place. [Lasnik (1999),
 developing an idea of Ochi (1999)]

B. Sluicing and Infl Raising

- (13) Sluicing - WH-Movement followed by deletion of IP
 (abstracting away from 'split Infl' details). [Ross
 (1969), Saito and Murasugi (1990), Lobeck (1990)]
- (14) Speaker A: Mary will see someone.

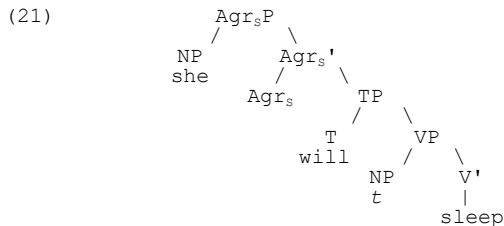
Speaker B: I wonder who ~~Mary will see~~.

- (15) Speaker A: Mary will see someone.
 Speaker B: Who ~~Mary will see~~?

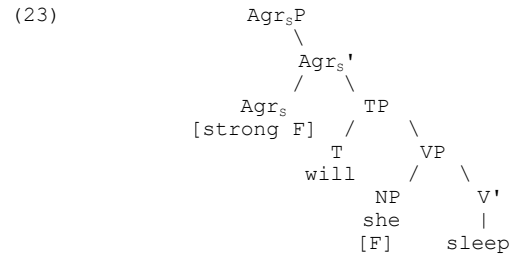


- (17) *Who Mary will see?
 (18) Who will Mary see?
 (19) In matrix WH interrogatives, Infl raising to C is normally obligatory driven by a strong feature of the interrogative C.
 (20) Assume that the matching feature of Infl raises overtly to check the strong feature of C. This leaves behind a phonologically defective Infl, which will cause a PF crash unless either pied-piping (Infl raising to C) or deletion of a category containing that Infl (Sluicing) takes place.

II. Failure of Repair: The EPP



- (22) Mary said she won't sleep, although she will ~~sleep~~



- (24) *Mary said she won't sleep, although will ~~she sleep~~
 (25) Why isn't deletion of a category containing the 'defective' item a viable alternative to pied-piping in this instance?
 (26) What is the EPP?
 (27) A certain head high in the clause has a strong feature, demanding overt movement for checking. Chomsky (1995)
 (28) Certain heads require Spec's. Chomsky (2000); Chomsky (1981)
 (29) Agr (or T) requires a Spec. It does not suffice to check its 'EPP feature'.
 (30) A possible alternative approach to the dichotomy: Boeckx and Stjepanovic (In press) suggest that the true generalization involves head movement, where ellipsis does provide an alternative to raising, vs. XP movement, where it doesn't.
 (31) The derivational decision to pied-pipe involves considerable 'look-ahead' since the adverse effects of bare feature movement are not evident until PF, where deletion operates. If head movement is a PF process, the interaction is at least confined to one component. Conversely, if XP movement is syntactic, potential interaction between full movement and deletion would be across the Spell-out divide, thus involving look-ahead of a much greater degree.

III. Ellipsis and island violation repair

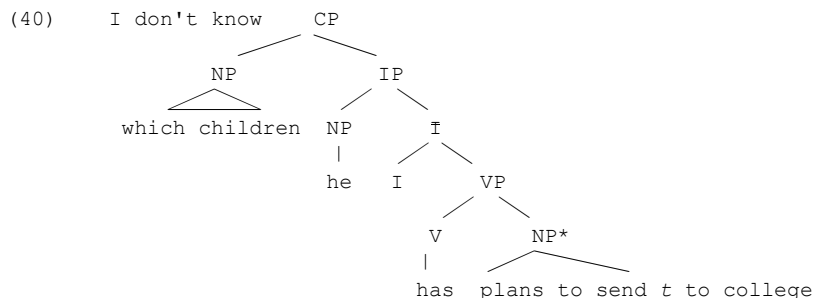
- (32) I believe that he bit someone, but they don't know who (I believe that he bit)
 (33) a *I believe the claim that he bit someone, but they don't know who I believe the claim that he bit [Complex NP Constraint, noun complement]
 b(??) I believe the claim that he bit someone, but they don't know who
 (34) a *Irv and someone were dancing together, but I don't know who Irv and were dancing together [Coordinate Structure Constraint]
 b(??) Irv and someone were dancing together, but I don't know who

- (35) a *She kissed a man who bit one of my friends, but Tom doesn't realize which one of my friends she kissed a man who bit [Complex NP Constraint, relative clause]
 b(??)She kissed a man who bit one of my friends, but Tom doesn't realize which one of my friends
- (36) a *That he'll hire someone is possible, but I won't divulge who that he'll hire is possible [Sentential Subject Constraint]
 b (??)That he'll hire someone is possible, but I won't divulge who All above from Ross (1969)

(37) Ross argues that the phenomenon of island violation repair provides "evidence of the strongest sort that the theoretical power of [global] derivational constraints is needed in linguistic theory..." [p.277]

(38) If a node is moved out of its island, an ungrammatical sentence will result. If the island-forming node does not appear in surface structure, violations of lesser severity will (in general) ensue. [p.277]

- (39) a (*)I don't know which children he has plans to send to college
 b He has plans to send some of his children to college, but I don't know which ones Chomsky (1972)



- (41) Chomsky rejects global derivational constraints, and suggests [see also Baker and Brame (1972), and, for an opposing view, Lakoff (1970), Lakoff (1972)] that * (# in Chomsky's presentation) is assigned to an island when it is crossed by a movement operation (the complex NP in (40)). An output condition forbidding * in surface structures accounts for the deviance of standard island violations.
- (42) If a later operation (Sluicing in this case) deletes a category containing the *-marked item, the derivation is salvaged.
- (43) For Chomsky (1972), the condition banning * applies at surface structure. The results are the same if, instead, it is a PF condition, as suggested by Lasnik (1995b), Lasnik (2001).

(44) Much more recently Chung et al. (1995) argue that the amelioration of island effects with Sluicing follows from their account, in which there is no movement or deletion involved, but a sort of LF copying.

(45) However, Merchant (1999), following Ross (1969), provides very strong evidence that syntactic movement (and hence deletion) is involved in Sluicing constructions. The evidence involves:

(46) 'Case matching': In overtly Case inflected languages (such as German), the Case of the remnant is just what the Case of the fronted WH expression would have been in the non-elliptical form, and this is even true in the island violation configurations.

(47) Er will jemandem schmeicheln, aber sie wissen nicht, he wants someone.DAT flatter but they know not
 {*wer / *wen / wem
 who.NOM who.ACC who.DAT
 'He wants to flatter someone, but they don't know who.'
 Merchant, p.107

(48) Sie will jemanden finden, der einem der Gefangenen she wants someone find who one.DAT of the prisoners geholfen hat, aber ich weiss nicht helped has but I know not
 *welcher / *welchen / welchem
 which.NOM which.ACC which.DAT
 'She wants to find someone who helped one of the prisoners, but I don't know which.'
 Merchant, p.109

(49) And preposition stranding: In languages that allow P-stranding (such as English), the remnant can be the bare object of a preposition; in languages that don't (such as Greek) it can't and this is even true in the island violation configurations.

(50) Peter was talking with someone, but I don't know who Merchant, p.111

(51) Peter's mom will get angry if he talks with someone from his class, but I don't remember who

(52) I Anna milise me kapjon, alla dhe ksero *(me) pjon the Anna spoke with someone but not I.know with who

(53) I mitera tou Giannis tha thimosi an milisi me kapjon the mom of Giannis FUT get.angry if he.talks with someone apo tin taksi tou, alla dhe thimame *(me) pjon from the class his but not I.remember with who 'Giannis's mom will get angry if he talks with someone from his class, but I don't remember who.'

(54) In Chomsky's approach, "a new element is introduced..." Lakoff (1972, p.81)

(55) Thus, a possible technical argument, due to Kitahara (1999), against Chomsky's approach:

- (56) "... a *-feature, which is not a lexical feature - since it appears nowhere in the lexicon - ... enters into a derivation as the output of certain movements. ...this assumption violates the Inclusiveness Condition." p.79
- (57) Kitahara's alternative:
- (58) An expression is marginally deviant if its derivation employs an MLC-violating application of Attract. p.80
- (59) Merchant (1999) rejects Chomsky's (1972) approach on empirical grounds, because of instances of ...

IV. Failure of Island Violation Repair

- (60) *They want to hire someone who speaks a Balkan language, but I don't know which they do [_{VP} ~~want to hire someone who speaks t~~] Merchant (1999)
- Compare
- (61) They want to hire someone who speaks a Balkan language, but I don't know which (Balkan language) [_{IP} ~~they want to hire someone who speaks t~~] Merchant (1999)
- (62) In fact, Chung et al. (1995) had already claimed that sluicing and VP ellipsis diverge in this way, concluding that the latter, unlike the former, is an instance of deletion.
- (63) We left before they started playing party games.
*What did you leave before they did [_{VP} ~~start playing t~~]?
- (64) Note, though, that this case is consistent with Chomsky's account (which Chung et al. (1995) apparently do not consider), as the adjunct island is not eliminated in (63), unlike the situation in (60).
- (65) Merchant, on the other hand, takes all ellipsis to be PF deletion (as far as I can tell), and argues that only some islands represent PF effects. Others, especially including relative clause islands, do not, and their violation therefore cannot be repaired by ellipsis.
- (66) (61) is then reanalyzed as:
- (67) They want to hire someone who speaks a Balkan language, but I don't know which (Balkan language) [_{IP} ~~she should speak t~~] [See also Baker and Brame (1972)]
- (68) They hired someone who speaks a Balkan language - Guess which [~~she speaks t~~]
- (69) Noone had a student who worked on a certain Balkan language, but I can't remember which Balkan language
- (70) No-one moved to a certain town - guess which! Merchant p.267

- (71) Every linguist_i met a philosopher who criticized some of his_i work, but I'm not sure how much of his_i work [~~every linguist_i met a philosopher who criticized t~~]
- (72) Each of the linguists met a philosopher who criticized some of the other linguists, but I'm not sure how many of the other linguists
- (73) !How many of the other linguists did the philosopher criticize
- (74) Some of Merchant's PF islands: COMP-trace effects; derived positions (topicalizations, subjects)
- (75) It appears that a certain senator will resign, but which senator [~~it appears that t will resign~~] is still a secret [adapted from Merchant p.219]
- (76) Sally asked if somebody was going to fail Syntax One, but I can't remember who [~~Sally asked if t was going to fail Syntax One~~] Merchant p.219, from Chung et al. (1995)
- (77) She said that a biography of one of the Marx brothers is going to be published this year, but I don't remember which [~~she said that a biography of t is going to be published this year~~] [adapted from Merchant p.220]
- (78) *They want to hire someone who speaks a Balkan language, but I don't know which they do [_{VP} ~~want to hire someone who speaks t~~]
- (79) *It appears that a certain senator will resign, but which senator it does [~~appear that t will resign~~] is still a secret
- (80) *Sally asked if somebody was going to fail Syntax One, but I can't remember who she did [~~ask if t was going to fail Syntax One~~]
- (81) *She said that a biography of one of the Marx brothers is going to be published this year, but I don't remember which she did [~~say that a biography of t is going to be published this year~~]
- (82) *They want to hear a lecture about a Balkan language, but I don't know which (Balkan language) they do
- (83) They want to hear a lecture about a Balkan language, but I don't know which (Balkan language) they want to hear a lecture about
- (84) They studied a Balkan language but I don't know which (?*they did)

- (85) Is VP ellipsis blocked when Sluicing is available (Sort of 'Delete as much as you can')?
- (86) Someone solved the problem.
Who (?did)?
- (87) Is a VP ellipsis site precluded from containing a variable?
- (88) I know what I like and what I don't Merchant p.69 [See Fiengo and May (1993) for similar examples.]
- (89) The constraint seems to be specific to VP ellipsis and seems limited specifically to circumstances where an indefinite antecedes a WH-trace. The nature of this constraint remains obscure.

References

- Baker, C. L., and Michael Brame. 1972. 'Global rules': A rejoinder. *Language* 48: 51-75.
- Boeckx, Cedric, and Sandra Stjepanovic. In press. Head-ing towards PF. *Linguistic Inquiry* 32.
- Chomsky, Noam. 1972. Some empirical issues in the theory of transformational grammar. In *Goals of linguistic theory*, ed. Paul Stanley Peters. Englewood Cliffs: Prentice-Hall Inc.
- Chomsky, Noam. 1981. *Lectures on government and binding*. Dordrecht: Foris.
- Chomsky, Noam. 1995. Categories and transformations. In *The minimalist program*, 219-394. Cambridge, Mass.: MIT Press.
- Chomsky, Noam. 2000. Minimalist inquiries: the framework. In *Step by step: Essays on minimalist syntax in honor of Howard Lasnik*, ed. Roger Martin, David Michaels, and Juan Uriagereka, 89-155. Cambridge, Mass.: MIT Press.
- Chung, Sandra, William Ladusaw, and James McCloskey. 1995. Sluicing and Logical Form. *Natural Language Semantics* 3: 1-44.
- Fiengo, Robert, and Robert May. 1993. *Indices and identity*. Cambridge, Mass.: MIT Press.
- Johnson, Kyle. 1991. Object positions. *Natural Language and Linguistic Theory* 9: 577-636.
- Kitahara, Hisatsugu. 1999. Eliminating * as a feature (of traces). In *Working minimalism*, ed. Samuel D. Epstein and Norbert Hornstein, 77-93. Cambridge, Mass.: MIT Press.
- Koizumi, Masatoshi. 1993. Object agreement phrases and the split VP hypothesis. In *Papers on Case and Agreement I: MIT working papers in linguistics* 18, 99-148.
- Koizumi, Masatoshi. 1995. *Phrase structure in minimalist syntax*. Doctoral dissertation, MIT, Cambridge, Mass.
- Lakoff, George. 1970. Global rules. *Language* 46: 627-639.
- Lakoff, George. 1972. The arbitrary basis of transformational grammar. *Language* 48: 76-87.

- Lasnik, Howard. 1995a. A note on pseudogapping. In *Papers on minimalist syntax, MIT working papers in linguistics* 27, 143-163.
- Lasnik, Howard. 1995b. Notes on ellipsis. Lecture presented at Forschungsschwerpunkt Allgemeine Sprachwissenschaft. Berlin.
- Lasnik, Howard. 1999. On feature strength: Three minimalist approaches to overt movement. *Linguistic Inquiry* 30: 197-217.
- Lasnik, Howard. 2001. Derivation and representation in modern transformational syntax. In *Handbook of syntactic theory*, ed. Mark Baltin and Chris Collins, 62-88. Oxford: Blackwell.
- Levin, Nancy. 1978. Some identity-of-sense deletions puzzle me. Do they you? In *Proceedings of the Fourteenth Annual Meeting of the Chicago Linguistic Society*, 229-240. Chicago Linguistic Society, Chicago University, Chicago, Ill.
- Lobeck, Anne. 1990. Functional heads as proper governors. In *Proceedings of North Eastern Linguistic Society* 20, 348-362. GLSA, University of Massachusetts, Amherst
- Merchant, Jason. 1999. *The syntax of silence: Sluicing, islands, and identity in ellipsis*. Doctoral dissertation, University of California Santa Cruz, Santa Cruz.
- Ochi, Masao. 1999. Some consequences of Attract F. *Lingua* 109: 81-107.
- Ross, John Robert. 1969. Guess who? In *Papers from the Fifth Regional Meeting of the Chicago Linguistic Society*, ed. Robert I. Binnick, Alice Davison, Georgia M. Green, and Jerry L. Morgan, 252-286. Chicago Linguistic Society, University of Chicago, Chicago, Ill.
- Saito, Mamoru, and Keiko Murasugi. 1990. N'-deletion in Japanese. In *University of Connecticut working papers in linguistics* 3, 87-107.