I. Ellipsis and island violation repair

(1) I believe that he bit someone, but they don't know who

(2a) *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]

(2b) I believe the claim that he bit someone, but they don't know who

(3a) *Irv and someone were dancing together, but I don't know who Irv and were dancing together  [Coordinate Structure Constraint]

(3b) Irv and someone were dancing together, but I don't know who

(4a) *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]

(4b) She kissed a man who bit one of my friends, but Tom doesn't realize which one of my friends

(5a) *That he'll hire someone is possible, but I won't divulge who that he'll hire is possible  [Sentential Subject Constraint]

(5b) That he'll hire someone is possible, but I won't divulge who

(6) 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]

(7) 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]

(8a) (*)I don't know which children he has plans to send to college

(8b) He has plans to send some of his children to college, but I don't know which ones  Chomsky (1972)
'She wants to find someone who helped one of the prisoners, but I don't know which.' Merchant, p.109

(18) 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. 

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

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

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

(22) 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.'

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

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

(25) "... 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

(26) Kitahara's alternative to *-marking (for a related phenomenon):

(27) An expression is marginally deviant if its derivation employs an MLC-violating application of Attract. p.80

(28) Merchant (1999) explicitly rejects Chomsky's (1972) approach, on empirical grounds, because of instances of ... II. Failure of Island Violation Repair

(29) *They want to hire someone who speaks a Balkan language, but I don't know which they do [they want to hire someone who speaks-t] Merchant (1999)

(30) Compare (31), which also involves a relative clause island:

(31) They want to hire someone who speaks a Balkan language, but I don't know which (Balkan language) [they want to hire someone who speaks-t] Merchant (1999)

(32) 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. Their example involved an adjunct island:

(33) We left before they started playing party games. *What did you leave before they did [we start playing-t]?

(34) Note, though, that this case, unlike Merchant's, is actually consistent with Chomsky's account (which Chung et al. (1995) do not consider), as the island is not eliminated in (33), unlike the situation in (29).

(35) Merchant, on the other hand, takes all ellipsis to be PF deletion, 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.

(36) (31) is then reanalyzed as:

(37) They want to hire someone who speaks a Balkan language, but I don't know which (Balkan language) [she should speak-t] [See also Baker and Brame (1972)]

(38) They hired someone who speaks a Balkan language – Guess which [she speaks-t]

(39) No-one moved to a certain town – guess which! Merchant p.267

(40) (39) has no island, so is unproblematic. But...

(41) Noone had a student who worked on a certain Balkan language, but I can't remember which Balkan language [Lasnik (2000)]

(42) There are also cases where structure that includes the island must exist in the Sluicing site in order to license an item in the Sluicing remnant:

(43) Every linguist met a philosopher who criticized some of his work, but I'm not sure how much of his work [every linguist met a philosopher who criticized-t]

(44) 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

(45) !How many of the other linguists did the philosopher criticize

(46) Some of Merchant's PF islands: COMP-trace effects; derived positions (topicalizations, subjects)

(47) It appears that a certain senator will resign, but which senator (it appears that I will resign) is still a secret [adapted from Merchant p.219]

(48) Sally asked if somebody was going to fail Syntax One, but I can't remember who [Sally asked if I was going to fail Syntax One] Merchant p.219, from Chung et al. (1995)
She said that a biography of one of the Marx brothers is going to be published this year, but I don't remember which. [adapted from Merchant p.220]

Recall the apparent failure of island violation repair with Merchant's non-PF island:

*They want to hire someone who speaks a Balkan language, but I don't know which they do. [want to hire someone who speaks a t]

But, surprisingly, we find the same apparent failure of repair with Merchant's PF islands [Lasnik (2000)]:

*It appears that a certain senator will resign, but which senator it does [appear that t will resign] is still a secret. [that-trace]

*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] [if-trace]

*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] [subject condition]

And now notice that parallel 'failure of repair' obtains even when there was no violation in the first place.

Extraction out of an embedded clause is typically fine and Sluicing is just as good, but VPE is bad:

They said they heard about a Balkan language, but I don't know which Balkan language they said they heard about

They said they heard about a Balkan language, but I don't know which Balkan language

*They said they heard about a Balkan language, but I don't know which Balkan language they did

Similarly for extraction out of an object NP:

They heard a lecture about a Balkan language, but I don't know which Balkan language they heard a lecture about

They heard a lecture about a Balkan language, but I don't know which Balkan language

*They heard a lecture about a Balkan language, but I don't know which Balkan language they did

Even short movement of a direct object shows rather similar behavior:

They studied a Balkan language but I don't know which Balkan language they studied

They studied a Balkan language but I don't know which Balkan language

They studied a Balkan language but I don't know which Balkan language they did

Is VPE blocked when Sluicing is available (Sort of 'Delete as much as you can')?

Someone solved the problem. Who (?did)?

Is a VPE site precluded from containing a WH trace?

I know what I like and what I don't. [See Fiengo and May (1994) for similar examples.]

III. Towards a Solution

The constraint seems to be specific to VPE, and seems limited specifically to circumstances where an indefinite antecedes a WH-trace. In fact, in other circumstances, VPE can even repair actual island violations:

[How interesting] did Brio write [a t novel]

a Pico wrote a more interesting novel than Brio did


For the ill-formed VPE cases above, which contrasted with the Sluicing examples, I will show how the fact that VPE deletes a smaller portion of the structure than Sluicing (IP ellipsis) could be relevant.

But first, a prior question: Why can an indefinite antecede a WH-trace?

An old idea: a WH expression combines an interrogative and an indefinite. (See, for example, Stockwell et al. (1973, p.606))

The 'trace' is the indefinite.

Fred said that Mary talked to a certain girl, but I don't know which girl <Fred said that Mary talked to t>

The Parallelism required for ellipsis is satisfied since the variables in the antecedent and the elided clause are bound by parallel operators and from parallel positions.

Now notice that in the structure, there are no intermediate traces in the elided portion (in angle brackets), indicating that there were no intermediate landing sites in the movement.

If there had been successive movement, under plausible assumptions the relevant portions of the antecedent and the ellipsis site would not be parallel, and this would prevent ellipsis.
This seems to be problematic under the assumption that successive cyclic movement is required by considerations of locality.

But as discussed earlier, considerations of locality are nullified under deletion (island repair).

But why is there no 'repair' with VPE? VPE involves deletion of a smaller constituent than the clause that is elided in sluicing (VP vs. TP):

\[ \text{which girl} \quad [\text{he T [asPP did} <\text{say that I talked to} \ldots \text{>}]]) \]

*I Fred said that Mary talked to a certain girl, but I don't know which girl he did.

The unacceptability of VPE follows if we assume that one of the two remaining maximal projections, AspP or TP, is an 'island' that must be circumvented by adjunction or repaired by deletion. (This roughly follows the claim of Chomsky (1986) that all XPs are potential barriers.) Since the island is not deleted, the escape hatch is required, and a violation of Parallelism is unavoidable, assuming that movement is not allowed to proceed in one long 'island-violating' step followed by short successive steps. (Metaphorically, when you enter the subway, you must choose the express or the local.)

This line of reasoning immediately extends to the badness of the classic island situations discussed by Merchant.

Since this account of the contrast between VPE and sluicing relies crucially on the fact that there is movement in the elided constituent but not in the antecedent constituent, a prediction is that if the antecedent clause is replaced with a clause that involves movement, both VPE and sluicing would be possible.

Compare:

\[ \text{I know which book John said that Mary read, but YOU don't know which one} \]

\[ \text{I know which book John said that Mary read, but YOU don't know which one he did.} \]

The somewhat less degraded status of very short movement cases such as (68) can now possibly be explained in terms of Pseudogapping (a variant of VPE where a remnant is first raised out of the inner VP in a shell structure, and that inner VP is deleted). The WH-trace can be completely outside of the ellipsis site. If I am right that the raising of the remnant is A-movement, it follows that long distance instances will not be possible.

\[ \text{[CP which Balkan language [TP they T [asPP did [CP t they [AgrP t Wh VP study t] Agr' Agr VP t]]]]} \]

Mary studied Bulgarian and John did Macedonian.

Finally (and most speculatively) it is generally very difficult to get 'long distance' readings of wh-adjuncts in Sluicing constructions:

\[ \text{Mary left sometime, but Bill doesn't know \text{[CP when [CP t Mary left t]]}] \]

\[ ?* \text{John claimed that Mary left sometime, but Bill doesn't know \text{[CP when [CP t John claimed [that Mary left t]]}] \]

\[ \text{John left for some reason, but I don't know \text{[CP when [CP t John left t]]}] \]

\[ ?* \text{Mary claimed that John left for some reason, but I don't know \text{[CP when [CP t Mary claimed [that John left t]]}] \]

This will follow on the theory of Lasnik and Saito (1984;1992) that the locality constraints on adjuncts (unlike those on arguments) must be satisfied at LF. Thus, PF deletion will be of no avail.

References


