On the 'graft' analysis of interpolations

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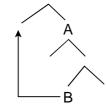
1. Grafting

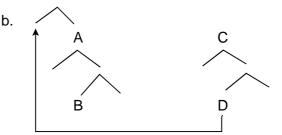
(1) 'Grafting' as the logically missing case of Merge (Van Riemsdijk 2004).

since we have this

we should also have this (grafting)

a.





- (2) a. a [far from simple] matter
 - b. they served [what was euphemistically referred to as a steak] (transparent free relative)
 - c. *Hij is naar* [ik meen dat 't *Budapest* was] *vertrokken* he left for I believe it was Budapest
- (3) 1. we don't have (1a) [no extraction]
 - 2. we don't have (1b) [no interarboreal operations]

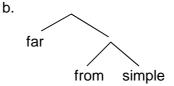
2. Simplest merge

- (4) What we need for a (bottom-up) derivation
 - a. a numeration of elements to be merged (RESOURCE)
 - b. a process of merger (MERGE)
 - c. a WORK SPACE containing the output of MERGE (a subset of the RESOURCE)
- (5) Bobaljik 1995: merger = establishment of a link between two members of the numeration
- (6) Proposed mechanism (MERGE): assign one element from the RESOURCE to the WORK SPACE
- (7) a. John loves Mary
 - b. 1. NUMERATION: *John, loves, TENSE, Mary,* {WORK SPACE: ∅ } assign Mary to the WORK SPACE
 - 2. NUMERATION: John, loves, TENSE, Mary, {WORK SPACE: Mary } assign loves to the WORK SPACE
 - 3. NUMERATION: John, love, TENSE, Mary, {WORK SPACE: Mary, loves+Mary } assign TENSE to the WORK SPACE
 - 4. NUMERATION: John, love, TENSE, Mary, {WORK SPACE: Mary, loves+Mary, TENSE+loves+Mary}
 - assign John to the WORK SPACE
 - 5. NUMERATION: John, love, TENSE, Mary, {WORK SPACE: Mary, loves+Mary, TENSE+loves+Mary, John+TENSE+loves+Mary}

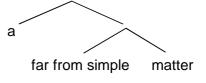
- (8) a. Mary, John loves
 - b. 1-5 as in (9b) assign Mary to the WORK SPACE
 - 6. NUMERATION: John, love, TENSE, Mary, {WORK SPACE: Mary, loves+Mary, TENSE+loves+Mary, John+TENSE+loves+Mary, Mary+John+tense+loves+Mary}
- (9) Movement (remerge) can only involve elements in the NUMERATION (incl. WORK SPACE)
- (10) The NUMERATION may include phrases = output of previous AUXILIARY DERIVATION
- (11) a. Pictures of John please Mary
 - b. 1. NUMERATION: [pictures of John], TENSE, please, Mary, {WORK SPACE: ∅ }
 - 5. NUMERATION: [pictures of John], TENSE, please, Mary, {WORK SPACE: Mary, please+Mary, TENSE+please+Mary, pictures=of=John+TENSE+please+Mary}
 - c. *John, [pictures of] please Mary
 - d. explanation: John is not in the NUMERATION, therefore cannot be (re)merged
- (12) Predictions: extraction from complement position always possible (modulo idioms)
 extraction from specifier/adjunct position never possible
 Condition on Extraction Domains (CED, Huang 1982, Toyoshima 1997)
- (13) a. * It's the CAR that [the driver of] caused a scandal (merged as specifier) b. It's the CAR that [the driver of] was arrested (merged as complement) (Chomsky 2005)
- (14) Movement is a second merge: there is no extraction
- (15) Terms of the output of an auxiliary derivation (like *C* in (1b)) cannot be merged: there are no interarboreal operations

3. a far from simple matter

- (16) auxiliary derivation yields (b) from numeration (a)
- a. NUMERATION: far, from, simple



- (17) (16b) included in new numeration (a), yielding (b), merged at attribute to *matter*.
- a. NUMERATION: a, far-from-simple, matter b.



[ASIDE: far from X may be viewed as a 'construction', i.e. construed via Merge but used in a petrified way, perhaps involving reanalysis of far from as a degree modifier to simple]

4. ik meen (dat 't) Budapest (was)

(18) auxiliary derivation yields constructions of the 'hedging' type

a. ik meen Budapest = Budapest (I think)

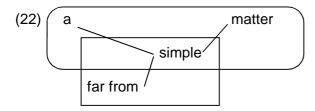
b. ik meen dat 't Budapest was = Budapest (I think)

- (19) embedded material carries the weight of the assertion
- (20) A. Denk je dat ik dat niet wist?do you think I did not know thatB. Nee! (≠ I don't think / = You didn't know)No
- (21) [ik meen Budapest] can be merged functioning as [Budapest]

[ASIDE: ik meen Budapest and ik meen dat 't Budapest was differ in that the latter can only be used in upward monotonic environments]

4.1 further arguments

1. spelling out graft structures



Upon hitting a graft (i.e. a *callus*), proceed to spell out the grafted structure (the *scion*) first; then continue with the matrix structure (the *stock*).

- (23) Hij is naar ik meen Budapest vertrokken of Helsinki he left for I think Budapest or Helsinki
- (24) Two interpretations
 - a. He left for one of two cities, the identity of the first being *possibly* Budapest, and the identity of the second being (certainly) Helsinki: **narrow scope** of *ik meen*
 - b. He left for some city, *possibly* Budapest or Helsinki (but could be neither): **wide scope** of *ik meen*
- (25) In the wide scope reading:

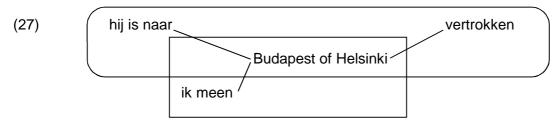
Stock: Hij is naar Budapest vertrokken of Helsinki

Callus: Budapest of Helsinki

Scion: Ik meen Budapest of Helsinki

(26) Spell-out procedure yields

Hij is naar ik meen Budapest of Helsinki vertrokken



- (28) Hij heeft zelfs Kayne ontmoet en Chomsky (narrow/wide scope) he even met Kayne and Chomsky
- 2. Opacity
- (29) a. Hij is dol op (ik meen) bananen he loves (I believe) bananas
 - b. Bananen is hij dol op (*ik meen) ___ bananas he loves (I believe)

In the graft analysis, it is not clear why a callus could not be displaced.

In the auxiliary derivation analysis, merger is restricted to members of the numeration (excluding terms of auxiliary derivations).

[ASIDE: There is a parallel here with other hedges, suggesting that hesitation particles are likewise part of auxiliary derivations and form a constituent with the hedged material:

- (30) a. Hij is naar [eh, Budapest] vertrokken he left for er, Budapest
 - b. *Waar is hij naar [eh, ___] vertrokken ? what place did he leave for er

Cf. DeSmedt & Kempen 1987.]

- 3. Limited types
- (31) a. Hij is naar { ik meen / *jij zei / *ik noem / *ik ken } Budapest vertrokken he left for { I believe / you said / I mention / I know } Budapest

 - c. *Hij is naar Budapest is de hoofdstad van Hongarije vertrokken he left for Budapest is the capital of Hungary

Restriction: the callus can be substituted by the stock 'salva veritate', i.e. the remainder of the stock merely adds information of an evidential kind.

- (32) Explanation within graft analysis: pragmatics?
- (33) Explanation within auxiliary derivation analysis: selection restriction (*ik meen Budapest* stands for *Budapest* [cf. (18)] and can be meaningfully combined with *naar*).

4. Interpretation

- (34) Hij is naar hij zei dat 't Budapest of Helsinki was vertrokken he left for he said that it Budapest or Helsinki was
 - a. 'He left for some place, possibly B or H, based on what he said.'
 - b. 'He left for some place which he said was either B or H.' (improbable reading)
- (35) Hij zei dat 't Budapest of Helsinki was he said it was Budapest or Helsinki
 - a. He said it was either B or H
 - b. He said it was some city, possibly B or H (improbable reading)

Explanation: in (34) we are not conveying that 'he said something' but merely adding evidentiality information.

5. Transparent free relatives

- (36) These are invariably evidential too (exx. from Van Riemsdijk 2001)
- a. The man entered the cockpit carrying a gun, a razor, and a can of **what the crew took to be** gasoline
- b. What seem to be several meteorites were lying on the lawn
- c. She invited **what I took to be** a policeman
- d. The verb is **what Stowell calls** adjacent to the noun phrase
- e. Nick lost what seems to be called his marbles
- f. They live in what is often referred to as each other's backyard
- g. The auk is what biologists term a pterorhine
- h. In this example, the variable is **what most linguists would characterize as** improperly bound
- i. Bill owns three **what some people would consider to be** extravagant cars etc.
- (37) what I took to be a policeman = a policeman (according to me at the time)
- (38) *She invited (what) Bill served as a naval officer
- (39) She invited what I took to be a policeman
- a. Derivation 1: NUMERATION: what, I, took, to, be, a, policeman OUTPUT: [what I took to be a policeman] (= a policeman, cf. (37))
- b. Derivation 2: NUMERATION: she, invited, [what I took to be a policeman]
 OUTPUT: [she invited what-I-took-to-be-a-policeman]

6. Conclusion

- (40) 1. Simplest merge allows no extraction or interarboreal operations.
 - 2. A numeration may include outputs of auxiliary derivations, the terms of which may not be merged separately (= opacity)
 - 3. Phenomena giving rise to a grafting analysis invariably involve hedging (cf. McCawley 1988:732) or, more specifically, evidentiality marking
 - 4. This entails that what seems to be embedded under the hedging/evidential material is actually the core information, so that the graft may be merged wherever the callus might.

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