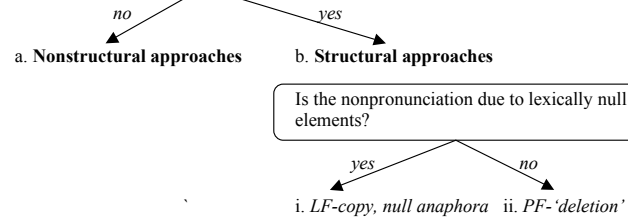


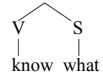
2 Approaches to the syntax of ellipsis

(23) Is there unpronounced syntactic structure in ellipsis sites?



2.1 Nonstructural approaches (Ginzburg and Sag 2000, Schlangen 2003, Jacobson 2003, Culicover and Jackendoff to appear, et multi alii)

(24) ... I don't VP



(25) Syntax: [S what^{ORPH}]^{IL} Semantics: Q[F(what)]

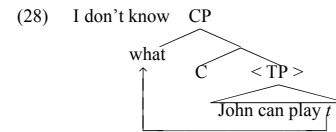
2.2 Structural approaches

2.2.1 Null anaphora (Wasow 1971, Shopen 1972, Williams 1977, Hardt 1993, 1999, Ludlow to appear); LF-copy (Fiengo and May 1994, Chung et al. 1995, Wilder 1997, Lappin 1999, Beavers and Sag 2004)

(26) a. I don't know [CP what [IP e]] (Spell-Out/S-structure)
 b. I don't know [CP what_i [IP e₁ e₂ e₃ t_i]]

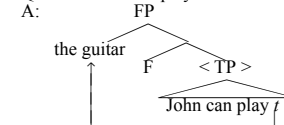
(27) I don't know [CP what_i [IP John can play t_i]] (LF/interpreted structure)

2.2.2 'Deletion' (Ross 1969, Morgan 1973, Sag 1976, Hankamer 1979, Wilder 1997, Lasnik 2001, Merchant 2001, Coppock 2001, Goldberg 2005, Chung 2005, et multi alii)



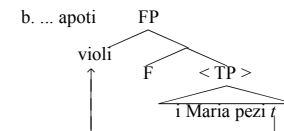
Likewise for fragment answers: (Brunetti 2003, Merchant 2004)

(29) Q: What can John play?



And for clausal comparatives:

(30) a. Greek
 I Maria pezi kithara kalitera apoti violi.
 the M.NOM plays guitar better than.CLAUSAL violin
 'Mary plays the guitar better than (she plays) the violin.'



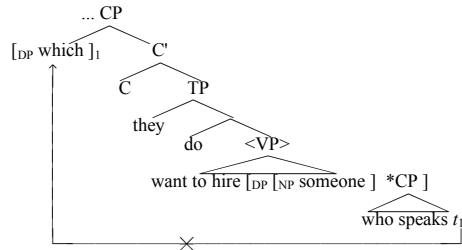
3 Evidence for structure

3.1 Locality effects

VP-ellipsis (Sag 1976, Haik 1987, Postal 2001, Fox and Lasnik 2002, Kennedy and Merchant 2000, Merchant 2001, to appear)

- (31) a. *I read every book you introduced me to a guy who did.
 b. *They want to hire someone who speaks a Balkan language, but I don't remember which (Balkan language) they do. <want to hire someone who speaks t >
 c. *Which film did you refuse to see because Roger was so revolted when he did after renting?
 d. *They met a five inches taller man than you did.

(32) *... but I don't remember



fragment answers to implicit salient questions (Morgan 1973, Merchant 2004)

cf. with no island:

- (33) a. Does Abby speak *Greek* fluently?
 b. No, *Albanian*.
 c. No, she speaks *Albanian* fluently.
- (34) a. Did Abby claim she speaks *Greek* fluently?
 b. No, *Albanian*.
 c. No, she claimed she speaks *Albanian* fluently.
- (35) a. Will each candidate talk *about affirmative action*?
 b. No, *about abortion*.
 c. No, each candidate will talk *about abortion*.
- (36) Q: Did each candidate, agree on who will ask him, *about affirmative action* (at the debate)?
 A: a. *No, about foreign policy.
 b. No, each candidate, agreed on who will ask him, about foreign policy.
- (37) Q: Does Abby speak the same Balkan language that *Ben* speaks?
 A: a. *No, *Charlie*. = [Abby speaks the same language that *Charlie* speaks]
 b. No, she speaks the same Balkan language that *Charlie* speaks.
- (38) a. Did Ben leave the party because Abby wouldn't dance *with him*?
 b. *No, *for him*.
 c. No, he left the party because Abby wouldn't dance *for him*.
- (39) a. Did Abby vote for a *Green Party* candidate?
 b. *No, *Reform Party*.
 c. No, she voted for a *Reform Party* candidate.
- (40) *No, [about foreign policy]₃ <each candidate agreed on who will ask him t₃>.



stripping (Reinhart 1991)

- (41) *They caught the man who'd stolen *the car* after searching for him, but not *the diamonds*.
 (42) *... but not <they caught the man who'd stolen t₂> [the diamonds].

gapping (Johnson 1996, Coppock 2001)

- (43) *Some wanted to hire the woman who worked on Greek, and others Albanian.

sluicing from inside subjects (Lasnik and Park 2004)

- (44) *Books were sold to John, but I don't know on which shelf.

sluicing over implicit antecedents (Chung, Ladusaw, and McCloskey 1995)

- (45) Tony sent Mo a picture that he painted, but it's not clear with what.
 a. = <Tony sent him the picture t_{with what}>
 b. ≠ <Tony sent him a picture that he [painted t_{with what}]>

contrast sluicing (Merchant 2001)

- (46) She knows a guy who has five *dogs*, but I don't know how many *cats*.
 a. = <he [=the guy who has the five dogs] has t>
 b. ≠ <she knows a guy who has t>

- "If cases such as [(31)-(46)] were ungrammatical, that would be impressive evidence of the reality of invisible structure" (Culicover and Jackendoff to appear, ch. 4 p. 11 fn 8).

3.2 Case-matching

German (*schmeicheln* assigns dative, *loben* assigns accusative; Ross 1969)

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

Also in Greek, Finnish, Hungarian, Russian, Polish, Czech, Slovene, Hindi, Basque, Turkish

- (49) **English** The police found someone's car, but they wouldn't tell us {whose / *who}.

Case:

- (50) Er will jemandem schmeicheln,
he wants someone.DAT flatter
aber sie wissen nicht, wem ~~<er+schmeicheln will.>~~
but they know not who.DAT he flatter wants
'He wants to flatter someone, but they don't know who.'

Likewise in fragment answers:

German: (examples modeled on those in Hankamer 1979:394)

- (51) Q: Wem folgt Hans?
who.DAT follows Hans 'Who is Hans following?'
a. A: Dem Lehrer.
the.DAT teacher
b. A: *Den Lehrer.
the.ACC teacher
- (52) Q: Wen sucht Hans?
who.ACC seeks Hans 'Who is Hans looking for?'
a. A: *Dem Lehrer.
the.DAT leader
b. A: Den Lehrer.
the.ACC leader

Greek:

- (53) Q: Pjos idhe tin Maria?
who.NOM saw the Maria 'Who saw Maria?'
a. A: O Gianni.
the Gianni.NOM
b. A: *Ton Gianni.
the Gianni.ACC
- (54) Q: Pjon idhe i Maria?
who.ACC saw the Maria? 'Who did Maria see?'
a. A: *O Gianni.
the Gianni.NOM
b. A: Ton Gianni.
the Gianni.ACC

Korean: (from Morgan 1989)

- (55) Q: Nu-ka ku chaek-ul sa-ass-ni?
who-NOM this book-ACC bought 'Who bought this book?'
a. A: Yongsu-ka.
Yongsu-NOM
b. A: *Yongsu-rul.
Yongsu-ACC
- (56) Q: Nuku-rul po-ass-ni?
who-ACC saw 'Who did you see?'

- a. A: *Yongsu-ka.
Yongsu-NOM
b. A: Yongsu-rul.
Yongsu-ACC

English:

- (57) Q: Whose car did you take?
a. A: John's.
b. B: *John.

Hebrew: (from Ginzburg and Sag 2000:299)

- (58) Q: Et mi shibax?
DEF.ACC who you.praised 'Who did you praise?'
a. A: Et Moti.
DEF.ACC Moti
b. A: *Moti.

Russian:

- (59) Q: Komu pomogla Anna?
who.DAT helped Anna 'Who did Anna help?'
a. A: Ivanu.
Ivan.DAT
b. A: *Ivan/ Ivana.
Ivan.NOM / Ivan.ACC

Tagalog:

- (60) Q: Ano ang binili ni Ferdinand?
what ang bought obl Ferdinand 'What did Ferdinand buy?'
a. A: Ang sapatos.
ang shoes
b. A: *Sapatos.

3.3 P-stranding

(61) **English**

- a. Peter was talking with someone, but I don't know (with) who.
b. Who was he talking with?

(62) **Swedish**

- a. Peter har talat med någon; jag vet inte (med) vem.
Peter has talked with someone I know not with who
b. Vem har Peter talat med?

(63) **Greek**

- a. I Anna milise me kapjon, alla dhe ksero *(me) pjon.
the Anna spoke with someone but not I.know with who
b. *Pjon milise me?

(64) **Russian**

- a. Anja govorila s kem-to, no ne znaju *(s) kem.
Anja spoke with someone, but not I.know with who
b. *Kem ona govorila s?

Parallel facts are found in fragment answers:

- (65) **English**
 a. Who was Peter talking with? b. Mary.
- (66) **Swedish**
 a. Vem har Peter talat med?
who has Peter talked with? b. Mary.
- (67) **Norwegian**
 a. Hvem har Per snakket med?
who has Per talked with? b. Mary.
- (68) **Danish**
 a. Hvem har Peter snakket med?
who has Peter talked with? b. Mary.
- (69) **Greek**
 a. Me pjon milise i Anna?
with whom spoke the Anna?
 b. Me ton Kosta.
 c. *Ton Kosta.
with the Kostas
- (70) **German**
 a. Mit wem hat Anna gesprochen?
with whom has Anna spoken?
 b. Mit dem Hans.
 c. *Dem Hans.
with the Hans
- (71) **Russian**
 a. S kem ona govorila?
with whom she spoke
 b. S Ivanom.
 c. * Ivanom.
- (72) **Bulgarian**
 a. S koj e govorila Anna?
with who aux spoken Anna
 b. S Ivan. c. * Ivan.
- (73) **Hebrew**
 a. Le-mi hixmeta? (Ginzburg and Sag 2000:299)
to-who you.flattered
 b. Le-Moti.
 c. *Moti.

Preposition-stranding:

- (74) Q: Me pjon milise i Anna?
with whom spoke the Anna?

- A: a. [Me ton Kosta]₁ <milise t₁>.
with the Kostas she.spoke
 b. *Ton Kosta₂ <milise [me t₂]>.
the Kostas she.spoke with

More on P-stranding: Chung 2005 points out that a preposition stranded inside an ellipsis site needs an *overt* correlate in the antecedent clause:

- (75) a. Max was afraid *(of something), but I don't know what₁ <Max was afraid of t₁>.
 • Seems to require structural matching of elided material with antecedent structure.

3.4 Binding Theory: Principles C, B, A: (Morgan 1973)

- (76) Where is he₂ staying?
 a. *In John₂'s apartment.
 b. *He₁ is staying in John₂'s apartment.
- (77) Who did John₁ try to shave?
 a. *Him₁.
 b. *John₁ tried to shave him₁.
- (78) Who does John like?
 a. Himself.
 b. John likes himself.

3.5 Scope, bound pronouns:

- (79) A: How many diplomats did every translator greet?
 B: a. Three.
 b. Every translator greeted three (diplomats).
- (80) A: Who does every Englishman₁ admire?
 B: a. His₁ mother.
 b. Every Englishman₁ admires his₁ mother.

3.6 Complementizer deletion (Morgan 1973):

- (81) What does no-one believe?
 #(That) I'm taller than I really am.
- (82) No-one believes (that) I'm taller than I really am.
- (83) #(That) I'm taller than I really am, no-one believes.
- (84) What are you ashamed of?
 *(That) I ignored you.
- (85) *I'm ashamed of that I ignored you.
- (86) That I ignored you, I'm ashamed of.

3.7 *Polarity items* (Giannakidou 2000)

- (87) a. What didn't Max read? b. *Anything.
 (88) a. Max didn't read anything. b. *Anything, Max didn't read.

vs. Greek 'emphatic' polarity items:

- (89) TIPOTA dhen idha.
n-thing.emphatic not I.saw
 'I didn't see anything.'
 (90) LEKSI dhen ipe!
word not he.said
 'He didn't say a word!'
 (91) Q: Ti idhes?
what you.saw
 'What did you see?'
 A: TIPOTA.
n-thing.emphatic
 'Nothing.'
 (92) Q: Ti egine? Ipe tipota oli tin nixta?
what happened he.said anything all the night
 'What happened? Did he say anything all night?'
 A: LEKSI!
word
 'Not a word!'

3.8 *Turkish bare objects vs. subjects* (Hankamer 1979:395)

- (93) Q: Hasan ne yaziyor? A: *(Bir) mektup. 'What is Hasan writing?' '(A) letter'
 (94) Q: Hayvanların en aptalı ne-dir? A: Ayı. 'Of the animals, the most stupid is what?' 'Bear'

3.9 *C-selectional effects and raising vs. control infinitivals*

- (95) A: What has John done? (Morgan 1973)
 B: Broken the vase.
 (96) A: What is John doing?
 B: Washing his car.
 Raising vs. control (< Chomsky 1981:62)
 (97) a. *It's [to procrastinate] that people tend.
 b. Q: How to people tend to behave?
 A: *To procrastinate.
 (98) a. It's [to get a job in Europe] that she wants.
 b. Q: What does she really want?
 A: To get a job in Europe.

3.10 *Predicate answers*

- (99) A: What did he do to the car?
 B: Totaled *(it). (102) *He did [total(ed) it] to the car.
 (100) A: What did she do with the spinach? (103) *She did [wash(ed) it] with the spinach.
 B: Washed *(it).
 (101) A: What did he do for his sister? (104) *He did [fund(ed) her] for his sister.
 B: Funded *(her).

4 *Evidence against structure*

4.1 *Lack of locality effects in movement whose understood origin site is internal to the ellipsis*

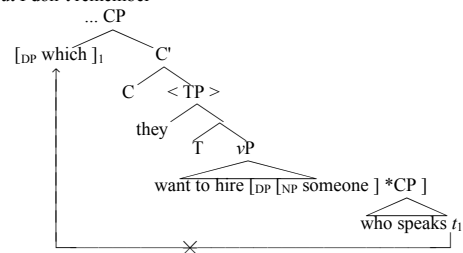
(Ross 1969, Chung et al. 1995, Merchant 2001, Lasnik 2001, Bošković 2001, Boeckx 2003)

- (105) They want to hire someone who speaks a Balkan language, but I don't remember which.
 (106) She bought a big car, but I don't know how big.
 (107) Ben will get arrested if Abby talks to one of the teachers, but she couldn't remember which.
 (108) Brio wrote a more interesting novel than Pico did.

And some cases from Culicover & Jackendoff to appear, Stainton to appear:

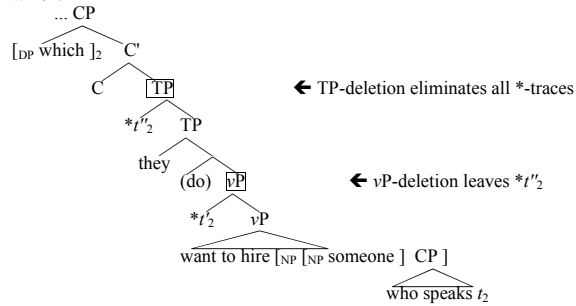
- (109) Did Susan say that she saw PAT Smith? --No, KIM.
 (110) Is that a Navy flight suit? --No, Army.
 (111) Is Sviatoslov pro-communist or anti-communist these days? --Pro.
 (112) A: John met a woman who speaks French.
 B: And Bengali? [*And Bengali, did John meet a woman who speaks French and?]

(113) but I don't remember



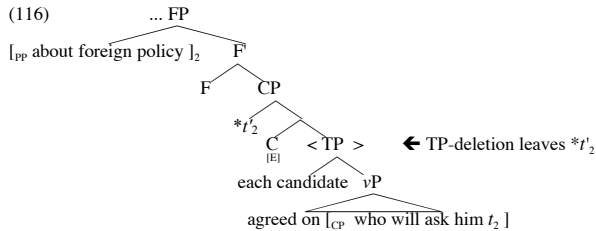
One solution: *Elliptical repair* effects (islands as a feature of intermediate traces, Merchant to appear; otherwise one-fell-swoop movement, Fox and Lasnik 2001, Fox and Pesetsky to appear)

- (114) a. They want to hire someone who speaks a Balkan language, but I don't remember which.
 b.



Absence of elliptical repair indicates additional structure:

- (115) a. Did each candidate₁ agree on who will ask him₁ *about affirmative action* (at the debate)?
 b. *No, [about foreign policy]₃ <each candidate agreed on who will ask him t₃>.



Cf. Clitic-left dislocation structures: (here, in Greek)

- (117) a. Ton Gianni, pote ton idhes?
the Gianni when him you.saw
 'When did you see Gianni?'
 b. Dhen ksero ton Gianni pote ton idha.
not I.know the Gianni when him I.saw
 'I don't know when I saw Gianni.'

A cross-linguistic comparative puzzle (with thanks to A. Giannakidou):

clausal vs. phrasal comparatives

- (118) Perissoteri anthropi menun sto kratos pu kivernai o Putin
more people live in.the.state that governs the Putin

- a. apoti o Bush.
than.CLAUSAL the Bush
 b. *apo ton Bush.
than.PHRASAL the Bush.ACC

'More people live in the country that Putin governs than live in the country that Bush governs.'

- (119) *More people live in the country that Putin governs than Bush. (=than live in the country that Bush governs)

- (120) [Gianni's father and his cousin each have a restaurant:]
 Tu Gianni tu aresi perissotera to estiatorio pu exi o pateras tu
the Gianni him pleases more the restaurant that has the father his
 {apoti o ksaderfos tu / *apo ton ksaderfo tu}.

than.CL the cousin his than.PH the cousin his
 'Giannis likes the restaurant that his father has more than he likes the restaurant his cousin has.'

- (121) *Giannis likes the restaurant that his father has more than his cousin. (=than the one his cousin has)

- (122) O Nikos idhe perissoteres tenies pu tu sistise i Nana
the Nikos saw more movies that him recommended the Nana
 {apoti i Elena/*apo tin Elena}.

than.CL the Elena than.PH the Elena
 'The number of movies that Nikos saw that Nana recommended to him is greater than the number of movies he saw that Elena recommended to him.' (or, 'Nikos saw more of the movies Nana recommended to him than he saw of the ones Elena recommended to him.')

- (123) *Nikos saw more movies that Nana recommended to him than Elena.

- (124) More people₁ in Florida in 2000 thought they₁ voted for Gore than Bush. (=than thought they₁ voted for Bush)

- Phrasal comparatives involve movement and ellipsis after all? (Lechner 2004)
- Movement of the remnant in phrasal comparatives leaves a *t outside the ellipsis site (structurally equivalent to fragment answers), but movement of the remnant in clausal comparatives does not (structurally equivalent to sluicing)?

- (125) ... ap' [CP ot₂ [FP o Bush₁ <[TP t'₁* [t₂ menun sto kratos pu kivernai t₁]>]]
 (126) ... apo [PP ton Bush₁ [CP Op₂ [FP t'₁* <[TP t'₁* [t₂ menun sto kratos pu kivernai t₁]>]]]

4.2 'Vehicle change' effects

- (127) Who did you tell *t* about Bill₂'s raise?
 a. Him₂.
 b. *I told him₂ about Bill₂'s raise.
 (128) The police arrested Alex₃, but he₃ didn't know why <the police arrested him₃>.

- Solution: Define the equivalence relation between the elided material E and its antecedent A in terms of semantic equivalence, not syntactic (e.g., LF-phrase structural) identity

4.3 Lack of case connectivity

Korean (Morgan 1989)

- (129) Q: Nu-ka ku chaek-ul sa-ass-ni?
who-NOM this book-ACC bought 'Who bought this book?'
 A: Yongsu.
 (130) Q: Nuku-rul po-ass-ni?
who-ACC saw 'Who did you see?'
 A: Yongsu.

(Sadock 2004 reports similar data for younger speakers of Greenlandic Eskimo.)

- Solution: Predicate pivots, from Kizu 1997 (et multi alii) for Japanese, Chinese, Turkish, Wang 2004, Wei 2004 for Chinese

- (131) Yongsu <essta>.
Yongsu was

4.4 Distribution of aggressively non-D-linked modifiers ('on earth', 'the hell' etc.) (Merchant 2001, Ginzburg and Sag 2000)

- (132) Someone parked on my lawn: I wish I knew
 a. who!
 b. *who the hell!
 c. who the hell {did that/parked on my lawn}!

A continuing mystery:

- (133) Bill was shouting to someone: but God only knows
 a. who to.
 b. who the hell to.
 c. who the hell he was shouting to.

- Generalization seems to be that 'the hell' etc. need to be followed by a pitch rise.

5 Evidence against 'deletion'

The sloppy ellipsis puzzle and why it's a problem

5.1 The PUZZLE₂ (Hardt 1999, Schwarz 2000)

- (134) I'll help you if you want me to. I'll kiss you even if you don't <>.
 a. <> = <want me to help you> STRICT
 b. <> = <want me to kiss you> SLOPPY
 (135) I'll help you if you [_{VP1} want me to <[_{VP2} help you]>].
 I'll kiss you even if you don't <[_{VP3} want me to kiss you]>.

Generally:

- (136) An elided VP₂ embedded inside a VP₁, where VP₁ is the antecedent to a VP₃, can get a 'sloppy' interpretation inside VP₃.

Ellipsis in the antecedent VP is necessary; there's no 'sloppy deaccenting puzzle':

- (137) I'll help you if you want me to help you. I'll kiss you even if you don't <>.
 a. <> = <want me to help you> STRICT
 b. <> ≠ <want me to kiss you> *SLOPPY

5.2 The VARIABLE SOLUTION

Hardt and Schwarz: Ellipsis is a variable in the semantics and absent or an empty proform in the syntax

- (138) I'll help you if you [_{VP1} want me to *e*₂]. I'll kiss you even if you don't *e*₃.
 a. *e*₂ = λ*x*.help(you)(*x*)
 b. [[VP₁]] = λ*y*.want(*e*₂(*me*))(*y*)
 c. *e*₃ = [[VP₁]] = λ*y*.want(*e*₂(*me*))(*y*) SLOPPY

For Hardt, *e*₂ in (138c) can be assigned a new value via center shift;

For Schwarz, the antecedent VPs *help you* and *kiss you* scope out of their clauses, providing distinct binders for the variable

- d. Hardt: λ*y*.want(*e*₂(*me*))(*y*), where *e*₂ = λ*x*.kiss(you)(*x*)
 ⇒ λ*y*.want(kiss(you)(*me*))(*y*) SLOPPY
 Schwarz: LF: [kiss you]₄ [I'll *t*₄ even if you don't <want me to *e*₂>]

Why there's no sloppy reading for the deaccented VP in (137):

(139) I'll help you if you [VP₁ want me to help you]. I'll kiss you even if you don't e₃.

$$\begin{aligned} \llbracket \text{VP}_1 \rrbracket &= \lambda y. \text{want}(\text{help}(\text{you})(\text{me}))(y) \\ e_3 &= \llbracket \text{VP}_1 \rrbracket = \lambda y. \text{want}(\text{help}(\text{you})(\text{me}))(y) \end{aligned}$$

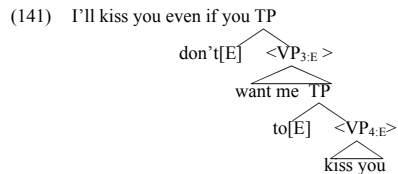
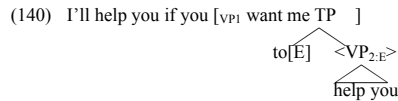
How the variable solution works: By analyzing the elided VP₂ as a variable over VP-meanings. Both Hardt and Schwarz take it that the easiest way to get this to work in the semantics is if in the syntax, the missing VP is simply an unpronounced pronominal.

5.3 Tomioka 2003's PROBLEMS for the variable solution:

1. No weak crossover effects, 2. Sloppy ellipsis in NP-ellipsis and sluicing (where movement of the antecedent is much less plausible), 3. Island-violating VP movement

5.4 A deletion solution

Merchant 2001, 2004: PF deletion is triggered by an E feature on the licensing head (generally T for VP-ellipsis); call the 'deleted' constituent 'E-marked' (shown by :E). (Cf. Elbourne 2004 for a similar view)



(142) A constituent α can be elided if α is e-given.

(143) *e-givenness*: An expression X is *e-given* iff X has a salient antecedent A and, modulo existential type-shifting, (i) A entails $E\text{-clo}(X)$, and (ii) X entails $E\text{-clo}(A)$.

(144) The *E-closure* of α ($E\text{-clo}(\alpha)$) is the result of replacing all E-marked subelements of α with variables of the appropriate type

VP₂ and VP₄ are E-marked, hence by (143) are replaced by a bound variable, $P_{\langle e,t \rangle}$, allowing VP₃ to satisfy (142):

$$(145) E\text{-clo}(\text{VP}_1) = E\text{-clo}(\text{VP}_3) = \exists x. \exists P. x \text{ wants me to } P$$

No sloppy reading in (137) because there is no E-feature in the antecedent:

$$(146) \begin{aligned} E\text{-clo}(\text{VP}_1) &= \exists x. x \text{ wants me to help you} \\ E\text{-clo}(\text{VP}_3) &= \exists x. \exists P. x \text{ wants me to } P \\ E\text{-clo}(\text{VP}_1) &\neq E\text{-clo}(\text{VP}_3), \text{ hence VP}_3 \text{ is not e-given, so VP}_3 \text{ cannot be elided} \end{aligned}$$

Conclusions

- There is silent structure in at least some ellipses
- The structure is silent because it is unpronounced (via 'deletion')
- A structure-based 'deletion' account of ellipsis is consistent with the sloppy ellipsis puzzle: the ellipsis site behaves like a variable in the *semantics*, but need not in the *syntax*

References

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