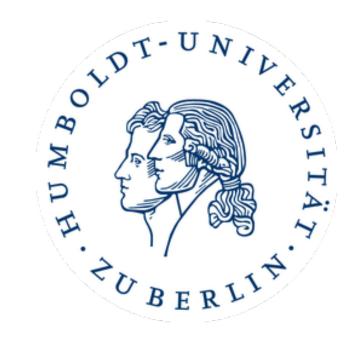


THE ANAPHOR, THE LOGOPHOR, AND THE PHI-FEATURES

Workshop on Gisbert Fanselow's Contributions to Syntactic Theory

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Fanselow (1991)

Fanselow (1991) proposes the principle of complete specification (1) to reduce the number of GB-principles (Chomsky 1981):

(1) Vollständige Spezifikation:

XP muß für alle Merkmale spezifiziert sein, die für Kategorien des Typs X in der jeweiligen Sprache vorgeschrieben sind.

'XP is specified for all features relevant for category X in the respective language.'

Implications for anaphors and binding theory:

 \triangleright (1) implies that every nominal phrase is specified for ϕ -features.

 \triangleright R-expressions and pronouns are specified for $\phi\text{-features}$ inherently.

 \triangleright Observation across languages: An aphors are often only partially marked for $\phi\mbox{-}features$

Logophors are not $\phi\text{-deficient}$

Given the feature checking + binding account, we expect logophors to pattern like an aphors, in that they are ϕ -deficient. But this is not the case:

- (7) a. Kofi1 be $y\dot{e}_{1/*2} dzó$.b. [Kofi kple Ama]1 be $y\dot{e}-w\dot{o}_{1/*2} dzó$.EweKofi say Log leftKofi and Ama say Log-PLleft'Kofi said that he left.''Kofi and Ama said that they left.'(Bimpeh 2023)
- (8) a. $Ol\acute{u}_1$ wí pé $\grave{oun}_{1/*2}$ wá. Olu say that LOG come 'Olu said that he came.'
 - b. Wýn₁ sợ pé **àwọn**_{1/*2} ti rí bàbá àwọn. they say that LOG.PL ASP see father LOG.PL 'There exid there have been seen their fathers'

Yoruba

(no number/gender): German, Spanish, Latin, Bangla, Hindi, Lithuanian, Russian, etc.

(2) Der Mann_{sg}/die Männer_{pl} liebt/lieben sich_{sg/pl}.

 \triangleright Consequence: An aphors are ϕ -deficient, they have to derive ϕ -features from their antecedent to obey (1).

Variables are ϕ -deficient

The assumption that an aphors are licensed by receiving ϕ -features from their binders has figured in a number of proposals since Fanselow (1991):

▷ Principle A derived via Agree (Hicks 2005, Heinat 2009)

- ▷ The distribution of fake indexicals as a consequence of FEATURE TRANSMISSION: ϕ -feature copying between a binder and the bindee (Schlenker 1999, Heim 2001, 2008, Kratzer 2009, Wurmbrand 2017)
- ▷ The distribution of logophoric pronouns have been modeled via obligatory binding by an attitude predicate, based on an uninterpretable [LOG]-feature (von Stechow 2003, Heim 2005, Pearson 2015).
- logophors have to occur in the scope of an attitude predicate
- logophors have to co-refer with the attitude holder

| (3) a. * $\mathbf{y}\mathbf{\hat{e}}_1$ dzó | b. Kofi ₁ be $\mathbf{y}\mathbf{\hat{e}}_{1/*2}$ dzo. | Ewe |
|---|--|------------------------------|
| Log leave. | Kofi say Log left | (Clements 1975 Pearson 2015) |
| 'He left' | 'Kofi said that he left' | (Clements 1975 Pearson 2015) |

'They said that they have seen their fathers.'

(Adésolá 2006)

(*pro_i* free)

Ewe

▷ Plural Logs also known for Gokana (Hyman & Comrie 1981) and Ibibio (Newkirk 2019).

Strict Readings

Fanselow (1991), Sauerland (2013), McKillen (2016):

- \triangleright Not all an aphors are ϕ -deficient. the ones that are not, are often morphologically complex, in that they are decomposed into a pronoun + SELF part.
- ▷ English *himself/herself* is inflected for gender and number and contains SELF.
- ▷ Fanselow (1991) proposes that such anaphors should be analyzed just like that: as a pronoun with a reflexive operator: $herself \equiv [pro_i \text{ SELF}]$
- > The locality of Principle A is derived by SELF restricting the referent of *pro* to be identical to that of the co-argument of the predicate (Reinhart & Reuland 1993)
- (9) Sauerland (2013), McKillen (2016):
 - a. Mary defended herself \sim Mary defended [*pro_i* SELF]
 - b. $\llbracket \texttt{self} \rrbracket = \lambda x \lambda R \lambda y : x = y. R(y, x)$

> This decomposition has the benefit to derive strict readings of *himself/herself*:
(10) Only MARY defended herself.

a. *Strict*: 'No one else defended Mary.'

пе іеп.

Kon salu that he left.

(Clements 1975, Pearson 2015)

Ewe

Yoruba

(4) Kofi said_[ϕ ,LOG] [$\lambda x_{2[\phi,LOG]} \lambda w \, \mathbf{y} \mathbf{\dot{e}}_{2[u\phi,uLOG]} \, \text{left}_w$]

Analysis:

- ▷ Logophors (like anaphors) are variables that need to be bound.
- \triangleright Attitude predicate introduces an individual abstractor to which they pass on the LOG-feature and the ϕ -features.
- \triangleright The *u*Log-feature on the logophor needs to get feature checked by the abstractor.

▷ This checking operation enforces index matching.

- Coupled with the semantics of the attitude predicate, this binding operation leads to the interpretation where the logophor refers the attitude holder's recognized self (de se reading).
- (5) a. $[say]^w = \lambda P \lambda x. \forall \langle w', x' \rangle \in say_{x,w}, P(x')(w') = 1$ (Pearson 2015) $say_{x,w} := \{ \langle w', x' \rangle : what x says in w is true in w' and x identifies themselves as x' in w' \}$
 - b. $\llbracket (4) \rrbracket \approx$ In all worlds in which what Kofi says is true, the person Kofi identifies as himself in those worlds left. (de se reading)
 - Indeed, logophors receive obligatory de se readings, not only in Ewe but also in other logophoric languages such as Yoruba (Adéşolá 2005).
 - Bimpeh et al. (2022) make use of mistaken identity scenarios to investigate the availability of de re readings. Logophors are infelicitous in such contexts.

b. *Sloppy*: 'No one else defended themselves.'

 \triangleright The self's contribution can be ignored across focus alternatives, which derives strict readings (same also wrt. ϕ -features of fake indexicals)

- (11) a. LF for (10): only [MARY_F defended [her₁ SELF]] (Sauerland 2013)
 - b. Focus Alternatives (strict reading): {[Sue defended [her₁ SELF]], [Ana defended [her₁ SELF]], ... }

>Observation: Logophors can also receive strict readings!

- (12) Élì kò yé súsú bé yè dùdzí lè àwù-dódó fé hòuíulí mè.
 Eli only FOC think COMP LOG win in dress-wear POSS contest inside
 'Only Eli thinks that he won (the costume contest).'
 - a. *Strict:* 'No one but Eli_i thinks he_i (=Eli) won the costume contest.'
 - b. *Sloppy:* 'No one_j but Eli thinks **they**_j won the costume contest.'
- (13) Adé nìkan ni ó rò wípé òun máa tayọ nínú ìdíje asọ náà.
 Adé only FOC RP think that LOG FUT to.win inside contest clothes DET
 'Only Adé thinks that he will win the costume contest.' Yoruba
 - a. *Strict:* 'No one but Ade_i thinks he_i (=Ade) won the costume contest.'
 - b. *Sloppy:* 'No one_j but Ade thinks **they**_j won the costume contest.'
- (6) <u>De re context</u>: Donald Duck went to the grocery store to buy flour. He mistakenly put sugar in his cart. Soon after, he saw a trail of sugar going up and down the aisles and thought that someone's bag had a hole in it and looked around for the guy. Donald Duck says: "The guy who is losing sugar is so stupid, he did not check his bag".
 - a. Donald Duck súsú be é / #yè dzo-mo-vi.
 Donald Duck think that he / Log exist.with-face-small
 'Donald Duck thinks that he is stupid.'
 - b. Donald Duck rò pé ó / #òún jệ òmùgộ
 Donald Duck think that he / Log is stupid.person
 'Donald Duck thinks that he is stupid.'

Selected References: Bassi, Driemel, Bimpeh, Silleresi (2023). Strict Logophors in Ewe, Yoruba, and Igbo. *Proceedings of Sinn und Bedeutung 27.* • Bimpeh, Driemel, Bassi, Silleresi (2022). Obligatory de se logophors in Ewe, Yoruba and Igbo: variation and competition. *Proceedings of WCCFL 40.* • Fanselow (1991). *Minimale Syntax*, Habilitation thesis, Universität Passau. • Sauerland (2013). Presuppositions and the Alternative Tier. *Proceedings of SALT 23.*

▷ Bassi et al. (2023) develop a semantics for logophors that derives *de se* readings by decomposing them into a [Log]-feature + pronoun: e.g. $y\dot{e} \equiv [LOG \ pro_i]$

- *pro_i* is a (free) variable over individual concepts; type $\langle s, e \rangle$
- Log encodes reference to the 'Logophoric Center' of the embedded world via a presupposition; LogP constraints the individual concept pro_i stands for to be one which maps the local evaluation worlds to their center (center made reference to by the attitude predicate)
- (14) a. *LF for (12):* Only $[\operatorname{Eli}_{[FOC]}$ thinks $\lambda w_x [[LOGP [LOG pro_i]_{w_x}] \operatorname{won}_{w_x}]]$ b. *Alt's (strict):* $\{ Kofi thinks \lambda w_x [[LOGP [LOG pro_i]_{w_x}] \operatorname{won}_{w_x}], Koku thinks \lambda w_x [[LOGP [LOG pro_i]_{w_x}] \operatorname{won}_{w_x}], ... \}$

▷ Just like with complex anaphors, the semantics of LoGP gets us (i) obligatory coreference without binding, (ii) predicts strict readings, and (iii) does not predict ϕ -deficiency. **Conclusion:** Logophors are not obligatorily bound.