



Strict Logophors

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Outline

- 1 Background
- 2 The puzzle of Strict Logophors
- 3 Proposal
- 4 Strict-unknown identity
- 5 Conclusion

Background

Logophoric Pronouns (**LogPs**)

- Logophoric pronouns (**LogPs**) in some west-African languages occur in the context of an attitude predicate and must refer to the attitude holder.

(1) Kofi₁ be **yè**_{1/*2} dzo. Ewe
Kofi say **LogP** left
'Kofi said that he left.'
(Clements, 1975)

(2) Olú₁ wí pé **òun**_{1/*2} wá. Yoruba
Olu say that **LogP** come
'Olu said that he came.'
(Manfredi, 1987)

(3) ọ₁ sìrì nà **yá**_{1/*2} byàrà. Igbo
he said that **LogP** came
'He said that he came.'
(Hyman and Comrie, 1981)

Profile of Ewe, Yoruba and Igbo

All 3 languages belong to the Niger-Congo language family:

- ▶ **Ewe** is spoken in Ghana (Volta & Oti regions) and Togo (southern).
- ▶ **Yoruba** speaking area spans mainly from Nigeria and Benin to smaller communities in Cote D'Ivoire, Serria Leone and the Gambia.
- ▶ **Igbo** is spoken in Nigeria and in some minor communities in Equitorial Guinea and Cameroon.

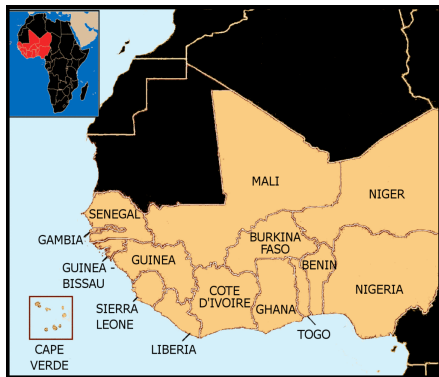


Figure: West Africa

Context

- ▶ Part of the LeibnizDream project supported by the European Research Council (ERC)

Question

Question

How is the dependency between LogP and the attitude holder encoded in the grammar?

- (4) **Kofi**₁ súú/gblɔ/dʒi/... be Afi a de **yè**_{1/*2} Ewe
Kofi₁ think/say/want/... COMP Afi will marry **LogP**_{1/*2}
'**Kofi** thinks/says/wants that Afi will marry **him**.'

Previous accounts (Heim 2002; von Stechow 2003; Pearson 2015)

- ▶ LogPs are bound variables – bound from the edge of the embedded clause
- ▶ Binding is enforced by a syntactic feature [LOG]
- ▶ [LOG] requires that the pronoun be ‘checked’ in the syntax by a matching binder at the edge of the embedded clause
- ▶ If there is no matching binder, the derivation crashes at LF.

Pearson 2015

Syntax:

Kofi says that $[\lambda x_1 \lambda w \text{ Afi will marry } \underbrace{x_1/*2, [\text{LOG}]}_{\text{LogP}}]$

Pearson 2015

(5) Syntax:

Kofi says that [$\lambda x_1 \lambda w$ Afi will marry $\underbrace{x_1/*2, [\text{LOG}]}_{\text{LogP}}$]

(6) $\llbracket (5) \rrbracket \approx$ *In all worlds in which what Kofi says is true, Afi marries the person Kofi identifies as himself in those worlds.* (**de se reading**)

- (7) a. $\llbracket \text{say (that) } P \rrbracket^w = \lambda x. \forall \langle w', x' \rangle \in \text{SAY}_{x,w}, \llbracket P \rrbracket(x')(w'),$
 b. $\text{SAY}_{x,w} := \{ \langle w', x' \rangle : \text{what } x \text{ says in } w \text{ is true in } w' \text{ and } x \text{ identifies themselves as } x' \text{ in } w' \}$

De se reference

- ▶ **De se** co-reference: The pronoun refers to who the attitude holder locates as themselves in the relevant worlds
 - ▶ Pearson (2015): Ewe LogPs also allow *de re* readings (=coreference unbeknownst to the att' holder)
 - ▶ Pearson's claim has been challenged recently (Bimpeh et al. 2022)
- ▶ We assume that LogPs only allow a *de se* reading.

The puzzle of Strict Logophors

Problematic Prediction

- ▶ The stipulation that LOGP must be internally bound to the attitude holder implies that it should generally behave like a bound variable.
- ▶ This makes an incorrect prediction with respect to the **strict/sloppy ambiguity** in ellipsis- and association with *only*-contexts.

Strict Logophors: Ewe data

- (8) Eli (le) mɔ-kpɔ-m be yè a ɖe Ablā. Yao hǎ.
 Eli be path-see-PROG COMP **LogP** will marry Ablā. Yao too.
 'Eli hopes that he(=**Eli**) will marry Ablā. **Yao** too
 hopes that ✓**Eli**_{strict}/✓**Yao**_{sloppy} marries Ablā.'

ellipsis

Strict Logophors: Ewe data

- (10) Eli (le) mɔ-kpɔ-m be **yè** a ɖe Ablā. Yao hã.
Eli be path-see-PROG COMP **LogP** will marry Ablā. Yao too.

'Eli hopes that he(=**Eli**) will marry Ablā. **Yao** too

ellipsis

~~hopes that~~ ✓ ~~Eli_{strict}~~ / ✓ ~~Yao_{sloppy}~~ ~~marries Ablā.~~

- (11) Eli ko yé súsú be **yè** ɖudzi le awu-dodo fe hoviuli me.
Eli only FOC think COMP **LogP** win (in dress-wear POSS contest inside).

'Only Eli thinks that he won (the costume contest).'

only

Possible: No *x* other than Eli thinks ✓ Eli_{strict} / ✓ *x*_{sloppy} won.

Strict Logophors: Ewe data

- (12) Eli (le) mɔ-kpɔ-m be yè a ɖe Ablá. Yao hã.
 Eli be path-see-PROG COMP **LogP** will marry Ablá. Yao too.
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ellipsis

- (13) Eli ko yé sú sú be yè ɖudzi le awu-dodo fe hoviuli me.
 Eli only FOC think COMP **LogP** win (in dress-wear POSS contest inside).
 'Only Eli thinks that he won (the costume contest).'
 Possible: No *x* other than Eli thinks ✓Eli_{strict}/✓*x*_{sloppy} won.

only

- ▶ The data above are from original fieldwork with 3 speakers (see also Bimpeh and Sode 2021)
- ▶ In Yoruba and Igbo (2 speakers each) the picture is messier as far as we checked. There seems to be cross-speaker disagreements, but some of our speakers accepted strict logophors for certain attitude predicates. We hope to clarify the picture in future work.

LogP's Dilemma

- ▶ If:
 - ▶ Ellipsis(/focus alternatives) must match in meaning with their antecedent, and
 - ▶ LogPs must be bound at the edge of CP,
- ▶ Then: only bound-variable (=sloppy) reading is predicted
 - ▶ Strict readings are **undergenerated**

(14) Predicted antecedent clause(/prejacent):

Eli hopes [λx_2 ... that $y e_2[log]$ will marry Abba]

(15) Predicted ellipsis clause(/focus alternatives):

Yao hopes [λx_2 ... that $y e_2[log]$ will marry Abba], too.

LogP's Dilemma

(16) LogP's Dilemma:

If LogPs have to be syntactically bound, how are strict readings possible? If they don't, how to ensure LogP's obligatory (*de se*) coreference with the attitude holder?

Proposal

In a nutshell

- LOGP consists of two syntactic pieces: $\text{LOGP} \equiv [\text{LOG } \textit{proj}_i]$

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- ▶ LOGP consists of two syntactic pieces: $\text{LOGP} \equiv [\text{LOG } pro_i]$
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 - ▶ Direct λ -binding by the antecedent is not enforced at LF

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- ▶ \textit{pro}_i is a variable, but one that is not (necessarily) bound
 - ▶ Direct λ -binding by the antecedent is not enforced at LF
- ▶ LOG is semantic feature responsible for the (*de se*) coreference requirement of LogPs. It encodes reference to the 'Logohoric Center'
 - ▶ See also Bimpeh et al. 2022

In a nutshell

- ▶ LOGP consists of two syntactic pieces: **LOGP** \equiv [**LOG** *pro_i*]
- ▶ *pro_i* is a variable, but one that is not (necessarily) bound
 - ▶ Direct λ -binding by the antecedent is not enforced at LF
- ▶ LOG is semantic feature responsible for the (*de se*) coreference requirement of LogPs. It encodes reference to the 'Logohoric Center'
 - ▶ See also Bimpeh et al. 2022
- ▶ Strict readings are possible because LOG's semantic contribution can be suspended when computing focus and ellipsis, similar to other pronominal features (see Sauerland 2013; Bassi 2021, a.o.)

Road Map

- Step 1: we present our proposal for the (*de se* coreference requirement of LOGPs in basic sentences

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Road Map

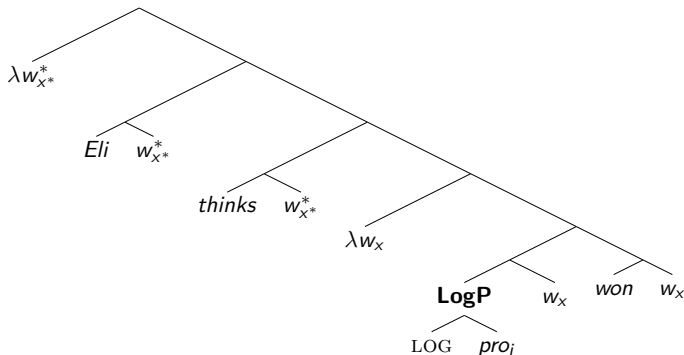
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- ▶ Step 2: show how it helps explain strict readings in ellipsis and focus
 - ▶ given auxiliary assumptions re: pronominal features in ellipsis and focus
- ▶ Step 3: present a novel and correct prediction of our analysis

A new route to obligatory *de se* coreference

- (17) Eli súsú be **yè** ɖudzi.
Eli think COMP **LogP** win.
'Eli thinks that he won.'

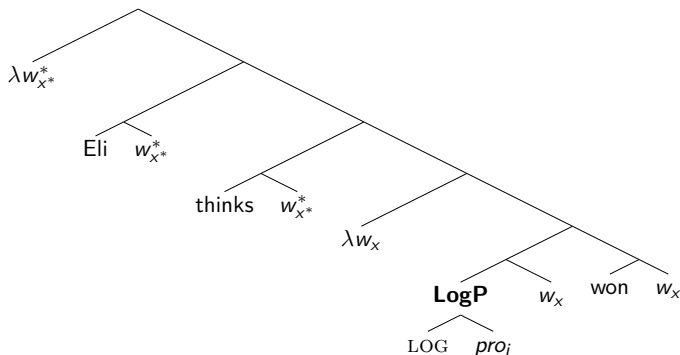
A de se semantics for LogPs

(18)



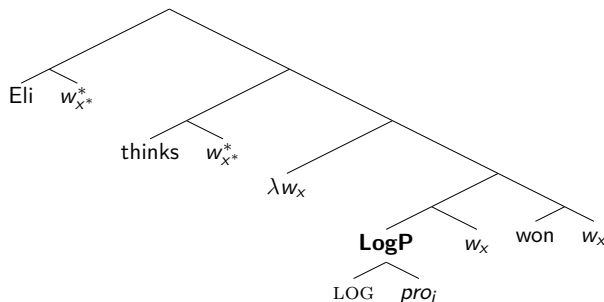
$\llbracket (18) \rrbracket \approx$ In each of Eli's belief worlds, Eli's 'self' (the '**Logophoric Center**') won.

A *de se* semantics for LogPs



- 'Centered-worlds' (Lewis 1979 a.o.) represented in the LF (see also Sauerland 2018)
 - Technically: variables over **world-individual pairs** (notated ' w_x '; by covention: type s) saturate argument slots in the denotation of verbal and nominal predicates

A de se semantics for LogPs

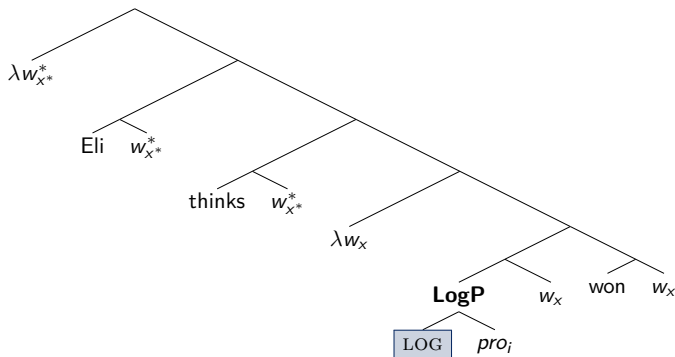


$$(19) \llbracket \text{think}_{w_x^*} \rrbracket^g = \lambda p_{\langle s, t \rangle} \lambda y : \forall w_x \in \text{BEL}_y, w_x \in \text{dom}(p). \quad (\text{cf. Heim 1992})$$

$$. \forall w_x \in \text{BEL}_y, p(w_x)$$

$$(20) \text{BEL}_y := \{w_x \mid w \text{ is compatible with } y\text{'s beliefs and } x \text{ is the Center of } w \text{—the individual in } w \text{ who } y \text{ perceives as } y\text{'s 'self' in } w\}.$$

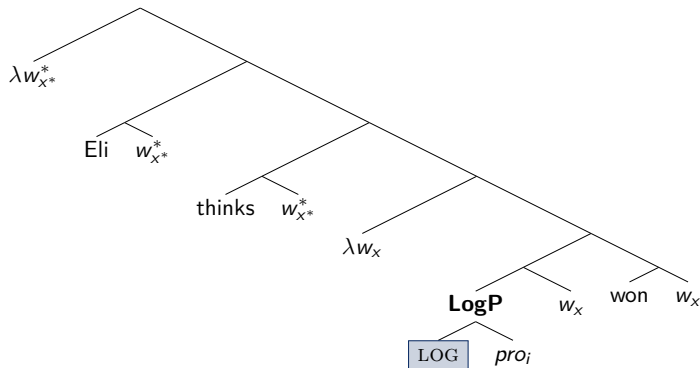
A de se semantics for LogPs



(21) a. $\llbracket \text{LOG} \rrbracket^g = \lambda f_{\langle s, e \rangle} \cdot \lambda w_x : f(w_x) = x. f(w_x)$ (cf. Cooper 1979 on ϕ -features)

b. $\llbracket \text{pro}_i \rrbracket^g = g(i)$ (an Individual Concept, type $\langle s, e \rangle$)

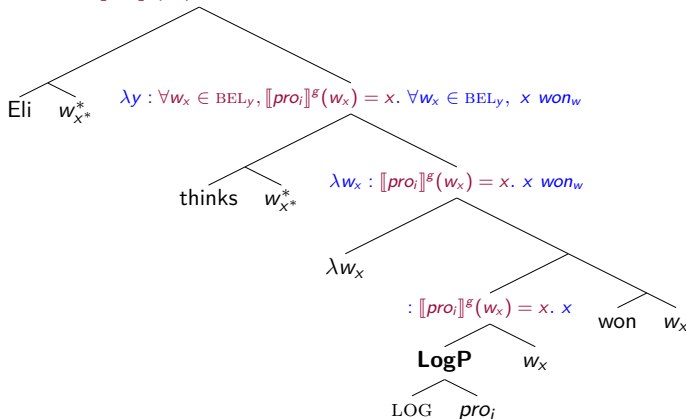
A *de se* semantics for LogPs



- (22) a. $\llbracket \text{LOG} \rrbracket^g = \lambda f_{\langle s, e \rangle}. \lambda w_x : f(w_x) = x. \underline{x}$ (equivalent to (21a))
- b. $\llbracket \text{pro}_i \rrbracket^g = g(i)$ (an Individual Concept, type $\langle s, e \rangle$)

A de se semantics for LogPs

$: \forall w_x \in \text{BEL}_{\text{Eli}}, \llbracket \text{pro}_i \rrbracket^g(w_x) = x. \forall w_x \in \text{BEL}_{\text{Eli}}, x \text{ won}_w$



A *de se* semantics for LogPs

$$\llbracket (18) \rrbracket \approx \forall w_x \in \text{BEL}_{Eli}, x \text{ won}_w.$$

In each of Eli's belief worlds, the person who Eli identifies as himself won.

A free individual concept

- ▶ pro_i 's value needs to be resolved using contextual cues, or accommodated otherwise
- ▶ But LOG will effectively restrict its possible values

¹It might be more appropriate to restrict the possible concepts to those which return an individual that the attitude holder is acquainted with through that concept. To do that, we could adopt Percus and Sauerland 2003's Concept Generator (CG) theory and incorporate CGs into the LFs. ▶ See appendix. ≡ ▶ ≡ ↺ 🔍 ↻

A free individual concept

- ▶ pro_i 's value needs to be resolved using contextual cues, or accommodated otherwise
- ▶ But LOG will effectively restrict its possible values ¹

- (24) a. $\checkmark \llbracket pro_i \rrbracket^g = \lambda w_x. x.$ (the *self*-concept)
- b. $\checkmark \llbracket pro_i \rrbracket^g = \lambda w_x. \text{the person in } w \text{ who } x \text{ knows as 'Eli'}$
- c. $\times \llbracket pro_i \rrbracket^g = \lambda w_x. \text{the person in } w \text{ who } x \text{ knows as 'Ann'}$

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Intermediate Summary

- ▶ We offered a semantics that delivers *de se* coreference with the attitude holder
 - ▶ with the novelty that part of LogP is a presuppositional LOG feature
- ▶ How does this help us with strict readings?

Deriving Strictness

association with *only*

- (25) Eli ko yé súsú be **yè** dɔdɔzi (le awu-dodo fe hoviɔli me).
Eli only FOC think COMP **LogP** win (in dress-wear POSS contest inside).

‘Only Eli thinks that he won (the costume contest).’

Possible: No *y* other than Eli thinks ✓**Eli**_{strict}/ ✓**y**_{sloppy} won.

Deriving Strictness

association with *only*

- (26) Eli ko yé súsú be **yè** dɔdzi (le awu-dodo fe hoviuli me).
Eli only FOC think COMP **LogP** win (in dress-wear POSS contest inside).

‘Only Eli thinks that he won (the costume contest).’

Possible: No *y* other than Eli thinks ✓**Eli**_{strict}/ ✓**y**_{sloppy} won.

- ▶ If LOG imposes its presupposition across all alternatives, only sloppy reading is possible.
- ▶ But...

Deriving strictness

- ▶ It has been argued that certain featural content on pronouns can be switched off when computing focus alternatives (Sauerland 2013; Bassi 2021 a.o.)
 - ▶ Strict readings of self anaphors (see also McKillen 2016; Bruening 2019)
 - ▶ ϕ -features on bound pronouns

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 - ▶ Strict readings of self anaphors (see also McKillen 2016; Bruening 2019)
 - ▶ ϕ -features on bound pronouns
- ▶ We assume that LOG, being a kind of ϕ -feature, can be absent from alternatives in the same way

Deriving Strictness

(27) a. LF: Only [Eli_[F] thinks λw_x [[LOGP **LOG *pro*_i**]_{w_x}] won_{w_x}]]

Deriving Strictness

- (29) a. LF: Only [Eli_[F] thinks λw_x [[LOGP **[LOG *pro*_i]_{w_x}] won_{w_x}]]**
- b. Alt's: { Kofi thinks λw_x [[LOGP ~~[LOG *pro*_i]_{w_x}] won_{w_x}] ,
Koku thinks λw_x [[LOGP ~~[LOG *pro*_i]_{w_x}] won_{w_x}] , ... }~~~~

Deriving Strictness

- (31) a. LF: Only [Eli_[F] thinks λw_x [[LOGP **[LOG *pro*_i]_{w_x}] won_{w_x}]]]**
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Koku thinks λw_x [[LOGP ~~[LOG *pro*_i]_{w_x}] won_{w_x}] , ... }~~~~

- ▶ At the level of the prejacent, LOGP must pick out Eli's 'self' in Eli's belief worlds;
- ▶ but LOG's presupposition can be absent from alternatives, clearing the path to a strict reading (*pro_i* can remain free)

Deriving Strictness

- (33) a. LF: Only [Eli_[F] thinks λw_x [[LOGP **[LOG *pro_i*]_{w_x}] won_{w_x}]]**
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- ▶ At the level of the prejacent, LOGP must pick out Eli's 'self' in Eli's belief worlds;
- ▶ but LOG's presupposition can be absent from alternatives, clearing the path to a strict reading (*pro_i* can remain free)
- ▶ *pro_i*'s value can be whatever concept the alternative attitude holders associate with Eli, e.g.:

- (34) Possible value for *pro_i*:

λw_x . *the individual that x knows by the name "Eli";*

...

Deriving strictness

- ▶ The account of the ambiguity in ellipsis works the same
- ▶ Assuming the identity condition on ellipsis (Parallelism), too, ignores ϕ -features (Ross 1967).

Ellipsis

- (35) Eli (le) mǝ-kpǝ-m be yè a ɖe Abl. Yao hǎ.
Eli be path-see-PROG COMP **LogP** will marry Abl. Yao too.
'Eli hopes that he(=Eli) will marry Abl. **Yao** too
~~hopes that~~ ✓ Eli_{strict} / ✓ Yao_{sloppy} ~~marries Abl.'~~

Sloppiness

- ▶ The sloppy reading can be derived too

Only $[\text{Eli}_{[F]} \text{ thinks } \lambda w_x [[_{\text{LOGP}} [\text{LOG } \textit{pro}_i]_{w_x}] \text{ won}_{w_x}]]$

- ▶ Either by λ -binding \textit{pro}_i to the matrix subject
- ▶ or by fixing the 'self' concept as the value of \textit{pro}_i , with or without interpreting LOG across the alternatives
- ▶ (or both)

Strict-unknown identity

New prediction

- (36) Eli ko yé súú be **yè** dūdzi le awu-dodo fe hoviuli me.
 Eli only FOC think COMP **LogP** win in dress-wear POSS contest inside.
 ‘Only Eli thinks that he won the costume contest.’

► Prediction:

The alternatives to Eli—though not Eli himself—can be mistaken or unaware of the exact reference of LOGP

- Because the contextually-salient concept that pro_i stands for can refer to different individuals in the minds of different attitude holders.

- (37) Possible values for pro_i :

λ_{w_x} . *the individual that x knows by the name “Eli”;*

λ_{w_x} . *the individual that x knows as the guy who was wearing the red costume;*

...

New prediction: Strict-unknown identity

- (38) *Context:* There is a costume contest. Eli, a participant who was wearing a red costume, overhears the judges of the contest debating, and concludes from what he hears that he is going to be declared as the winner. Koku and Kofi, who watched the costume show, are wrong about the identity of the man with the red costume; they don't know it was Eli. They might even disagree among themselves who it was). But they don't think that he, whoever he is, will win.

New prediction: Strict-unknown identity

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- According to 3 Ewe speakers with whom we checked, the sentence is felicitous and true in this context.

- (41) Eli ko yé súsú be **yè** dɔdzi le awu-dodo fe hoviuli me.
Eli only FOC think COMP **LogP** win in dress-wear POSS contest inside.

'Only Eli thinks that he won the costume contest.'

New prediction: Strict-unknown identity

(42) a. LF: Only [Eli_[F] thinks λ_{w_x} [[LOGP [**LOG** *pro*_i]_{w_x}] won_{w_x}]]

New prediction: Strict-unknown identity

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Koku thinks λw_x [[LOGP ~~[LOG *pro_i*]_{w_x}] won_{w_x}] , ... }~~~~

- (45) $\llbracket pro_i \rrbracket^g = \lambda w_x. \text{ the man who } x \text{ knows as wearing the red costume in } w$

Conclusion

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- ▶ We proposed a theory of the semantics of logophoric pronouns in Ewe, Igbo and Yoruba on which their *de se* coreference comes from a presuppositional feature that can optionally be ignored when computing focus and ellipsis
 - ▶ Inspired by the properties of ϕ -features, more generally, in these environments (Sauerland 2013; Bassi 2021, a.o.)
- ▶ Correctly predicts (subtle) strict readings of logophors

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Open Question

What does the theory imply for the typology of logophoric-like elements cross-linguistically (shifted Indexicals, PRO)?

LogP and PRO: speculations

- ▶ Logophoric pronouns famously share some semantic properties of PRO, most notably the obligatory *de se* reading
- ▶ It is thus sometimes suggested that LOGP and PRO should receive a uniform analysis at LF
- ▶ As opposed to LOGP, however, PRO does not allow strict readings in ellipsis and focus (Landau 2013, a.o.).

LogP and PRO: speculations

- ▶ Suppose that LOGP and PRO indeed have the same basic LF make up—**[LOG *pro_i*]**
- ▶ ...But that PRO comes with the added condition that its variable-part must be λ -bound directly by the controller

(46) Mary λx x wants [to **[LOG *x*]** win]
} PRO

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(47) Mary λx x wants [to $\underbrace{[\text{LOG } x]}_{\text{PRO}}$ win]

- ▶ Then, only sloppy readings will be possible

LogP and PRO: speculations

(48) Mary λx x wants [to $\underbrace{[\text{LOG } x]}_{\text{PRO}}$ win]

- Suppose further that this binding configuration is subject to some *locality* conditions (maybe due to a syntactic feature on PRO)

LogP and PRO: speculations

(51) Mary λx x wants [to $\underbrace{[\text{LOG } x]}_{\text{PRO}}$ win]

- ▶ Suppose further that this binding configuration is subject to some *locality* conditions (maybe due to a syntactic feature on PRO)
- ▶ Then, it may be possible to further explain why LogP but not PRO allows for long-distance antecedents:

(52) Kofi₁ súsú be Koku₂ ḍɔi be yè_{1/2/*3} a ḍe Afi
Kofi₁ thinks COMP Koku₂ wants COMP LogP_{1/2/*3} will marry Afi

(53) Kofi₁ thinks that Koku₂ wants to PRO_{*1/2} marry Afi

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(55) Kofi₁ súsú be Koku₂ dʒi be **yè_{1/2/*3}** a ɖe Afi
Kofi₁ thinks COMP Koku₂ wants COMP **LogP_{1/2/*3}** will marry Afi

(56) Kofi₁ thinks that Koku₂ wants to **PRO_{*1/2}** marry Afi

- ▶ ...and maybe also why PRO but not LogP can only appear in subject positions

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