Fake Indexicals in focus
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Overview: We present a new theory of Fake Indexicality (FI) in focus constructions (only I did my homework) based on the special mechanism of Focus Binding proposed originally in [Kratzer (1991)] to capture co-variation under focus. The empirical motivation for our proposal is a novel class of cases involving non-standard binding dependencies that are problematic for current theories of FI, but that follow straightforwardly on our analysis, in which FI results from the special Focus Binding mechanism. We then turn our attention to Erlewine & Kotek’s (to appear) recent claim that Focus Binding does not exist in the grammar, contra Kratzer (1991). We show their arguments are confounded, and that their alternative analysis undergenerates desirable structures in a way that the Focus Binding theory doesn’t, supporting the existence of Focus Binding.

Fake Indexicals: “Fake Indexicality” (FI) refers to the phenomenon where 1st/2nd person pronouns appear to function as bound pronouns, e.g. in (1). The challenge is to explain the seeming semantic ‘inertness’ of the person features on the bound pronoun (we limit the cases of FI we look at in this work to focus constructions).

(1) Only I did my homework

\[ \rightarrow \text{bound reading} \quad : \text{I am the only } x \text{ such that } x \text{ did } x \text{'s homework} \]

\[ \not\rightarrow \text{bound reading} + 1st: \text{I am the only } x \text{ such that } x \text{ did } \mathbf{x} : x \text{ is the speaker}'s homework} \]

On one popular approach (Kratzer 1998, Heim 2008, a.o.), the $\varphi$-features on the bound my are not interpreted at all but rather transmitted at PF from the binder (as reflex of agreement). This approach presupposes that FI is a special case of normal binding and hence subject to the same constraints. This assumption seems empirically false (see also Safir 2014: fn. 8): like focus dependencies more generally, FI configurations are much less restricted than normal binding, as can be seen in the contrasts between [a] and [b] examples in (2)-(3). We adopt the standard assumption that island-insensitive focus movement is not an option for [b-c].

(2) Embedded object position (cf. Büring 2004: ex. (20b) for a structurally similar [b] example)

a. Only the woman who is dating $ED_F$ introduced him to her parents. $(\checkmark \text{ bound})$

b. Only the woman who is dating $ME_F$ introduced me to her parents. $(\checkmark \text{ bound})$

c. Only the woman who is dating $ME_F$ introduced me to her parents. $(\checkmark \text{ bound})$

(3) Antecedents of conditionals (cf. Tomioka 1999:219, 238 for a structurally similar [b] example)

a. If every student, misbehaves, the teacher calls his$_{i1}$ parents. $(\checkmark \text{ bound})$

b. Only if $SU_E$ misbehaves does the teacher call her$_{i1}$ parents. $(\checkmark \text{ bound})$

c. Only if $I_E$ misbehaves does the teacher call my$_{i1}$ parents. $(\checkmark \text{ bound})$

The [b] examples are well known in the literature, and can be straightforwardly analyzed on E-type approaches (Tomioka 1999, Elbourne 2001, Büring 2004), which hold that e.g. him$_{i}$ in (2a) is a spell out of the concealed definite description the person $x$ is dating, where $x$ is bound by the subject. But such analyses run into serious problems with the fake indexicals in the [c] examples: it is mysterious why the 1st person features from the focused pronoun must surface on the e-type pronoun (and only on e-type pronouns; note the her$_{i1}$ in (2b), which is formally bound by the subject and doesn’t inherit the 1st person feature from the focused pronoun).

Proposal: We propose that FI in focus constructions arises because the $\varphi$-features on bound pronouns are not interpreted at the focus semantic value of the expression, although they are interpreted at the regular semantic value (see also Jacobson 2012; Sauerland 2013). Our system to derive this is based on Wold (1996)’s extension to Kratzer’s (1991) theory of focus interpretation. In Wold’s system, association with focus is variable binding: Focus Sensitive Operators (FSO) are coindexed with their foci and bind them (45).

(4) LF of only JOHN danced: only$_1 [\text{John}_1 \text{ danced}]$ (see [9] below for the interpretation of indices)

\[ \text{only}_1 \varphi \leftrightarrow g,h \in \{ [\varphi]_{g,h} : \forall p \in \{ [\varphi]_{g,h} \cup \{<i,x>\} : x \in D_{g} \} : p \neq [\varphi]_{g,h} \rightarrow \neg p \text{ (where } i \notin \text{ dom}(h)) \]

We propose that FSOs can bind not only their focus, but also any subsequent co-referential pronouns (6). The result is that such pronouns are treated semantically just like their antecedent: their $\varphi$-features contribute meaning only at the level of the regular semantic value, as desired (7).
We make two additional assumptions to ensure the right result. First, we adopt the standard assumption that pronouns is as in (8), where PERS, NUM, GEN are presuppositional identity functions that modify a referential index. Crucially, we posit that the internal index percolates to the maximal projection of the pronoun. Second, we conjecture that indices are interpreted differently when they are attached to XPs compared to when they appear bare within a pronoun. Regarding prosody, we attribute the fact that focus-bound pronouns (such as my in (1)) don’t bear any prosodic prominence to a requirement that only the leftmost member of two coindexed elements is assigned prominence. In the talk we present a way to derive this based on considerations of Givenness (Schwarzchild 1999).

(8) **Structure of pronouns:** [PERS [NUM [GEN 1]]] (the index percolates to the maximal projection)

(9) $\alpha_i^{g,h} = \begin{cases} b(i), & \text{if } i \in \text{dom}(h); \\ \alpha_i^{g,h}, & \text{otherwise} \end{cases}$

(10) $\iota_i^{g,h} = \begin{cases} b(i), & \text{if } i \in \text{dom}(h); \\ g(i), & \text{otherwise} \end{cases}$

Thus, on our analysis what binds the FI is not its antecedent but the FSO that associates with its antecedent. This readily explains (2) and (3) without any complications, because the FSO is in the right structural configuration to bind the FI, although the focused pronoun isn’t (11). It moreover predicts, correctly, that FI configurations will not be allowed if the FSO is embedded in a position from which it cannot bind the FI (12).

(11) a. Only$_1$ [the woman [who is dating ME$_1$] introduced me$_1$ to her parents].
   b. Only$_1$ [[if SUE$_1$ misbehaves] does the teacher call her$_1$ parents].

(12) a. The woman [who is dating only$_1$ ME$_1$] introduced me$_1$ to her parents.
   b. [If only$_1$ I$_1$ misbehave] (does) the teacher call(s) my$_1$ parents.

The upshot of our proposal is that the grammar has a special mechanism - **Focus Binding** - to represent co-variation between a focused XP and a pronoun, which is separate from normal binding.

**Focus Binding exists:** Kratzer’s (1991) original motivation for positing a special focus coinlexation mechanism came from so-called Tanglewood sentences (13) which show covariation between an F-marked XP and a corresponding phrase in an elided VP. Kratzer uses coindexation, as in (13a), to capture the relevant reading. Recently, Erlewine and Kotek (E&K, to appear) have argued that focus coindexation does not exist, and that Tanglewood sentences involve ordinary binding fed by covert movement to only, in (13b).

(13) I only went to TANGLEWOOD because you did.

   a. **Kratzer 1991:** I only [VP went to TANGLEWOOD$_1$] because you did [VP went to TANGLEWOOD$_1$].
   b. **E&K:** only(Tanglewood$_F$)(ax) I went to x because you [VP went to x]

If E&K are right about (13), this poses a problem for our approach to FI, which relies on a similar mechanism to Kratzer (1991). In the remainder of the talk we therefore critically evaluate E&K’s arguments, and demonstrate that they are confounded by various factors. We moreover show that their proposal under-generates in many cases, such as (14). Here, the F-marked NP, Aspects, cannot covertly move to only because it is inside a relative-clause island. E&K therefore predict the co-variation reading should be impossible here (even with focus-pied-piping), contra to fact. Focus coindexation easily captures these data, as in (16). For an elaborate discussion, see Bassi & Longenbaugh (2017).

(14) I only said that the man [RC who bought ASPECTS] couldn’t afford to.

   =Aspects is the only x s.t. I said [the man who bought x] couldn’t afford to buy x.

(15) **E&K:** only(ASPECTS$_p$)(ax) I said the man [who bought x] couldn’t afford to buy x (X RC-island)

(16) **Focus binding:** only I said the man [who bought Aspects$_1$] couldn’t afford to buy Aspects$_1$ (✓)