

Binding by Voice

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This paper introduces the new phenomenon of obligatory possessor binding with psych verbs that has, to the best of our knowledge, not previously been noticed in the literature. It suggests an analysis at the syntax-semantics interface in terms of binder Voice heads or theta heads, based on Kratzer's (2009:193) assumption that "semantic binders (λ -operators represented as binder indices) are introduced by verbal functional heads, rather than by "antecedent DPs"".

Empirical realm and previous analyses: It is known from Control Theory that verbs can be divided into subject control verbs like *zugeben* and object control verbs like *befehlen*.

- (1) Er_i gab uns_j zu, [$PRO_{j/i}$ gelogen zu haben] (2) Er_i befahl ihm_j, [$PRO_{j/i}$ zu gehen]
he admitted to-have-lied he ordered him to-go

We observe a similar distinction in the domain of binding. Object experiencer verbs like *amuse*-type psych verbs of Levin (2006) (*beeindrucken* 'impress', *nerven* 'annoy', *faszinieren* 'fascinate', etc.) require the possessors in the PP complements to be bound by the subject (3)/(4). Subject experiencer verbs, such as judgement verbs (*verurteilen* 'damn' or *gratulieren* 'congratulate') and *admire*-type verbs (*bewundern* 'admire', *beneiden* 'envy'), require the binding of the possessor in the PP by the object (5)/(6).

subject binding

- (3) *Jeder Artikel_i* beeindruckte mich durch seinen_i guten Stil. [Object Exp verb]
every paper impressed me with its good style
(4) *Jeder_i* nervte Peter_j mit seinen_{i/j} Fragen. [Object Exp verb]
everyone annoyed Peter_{ACC} with his questions

object binding

- (5) Er_i verurteilte jeden_j für seine_{j/i} Lüge. [Subject Exp verb]
he condemned everyone for his lie
(6) Er_i bewundert jeden_j für seinen_{j/i} Scharfsinn. [Subject Exp verb]
he admires everyone_{ACC} for his acumen

Hole (2014) accounts for the obligatory local binding attested for extra argument datives, as in (7). He observes that extra argument datives, in contradistinction to lexical datives, as in (8), obligatorily bind a variable in their local domain.

- (7) Der Udo_i trat jedem_j gegen sein_{j/i/k} Schienbein.
the Udo kicked everyone_{DAT} against his shin
(8) Der Udo_i zeigte jedem_j sein_{j/i/k} Schienbein.
the Udo showed everyone_{DAT} his shin

Note that not only lexical datives, but also other arguments normally assumed to be lexically-selected/theta-marked by the verbal root, do not require obligatory possessor binding:

- (9) Peter_j stellte das Kind_i auf seine_{i/j/k} Füße.
Peter placed the child on(to) his feet

Hole (2012, 2014) suggests that an extra argument dative, as in (7), unlike the lexical dative in (8), is introduced by a functional theta head, a type of an argument-introducing head in the sense of Wood & Marantz (to appear), or a Voice head in the sense Alexiadou & Schäfer (2014) and Kratzer (1996). Given a proposal made by Kratzer (2009), this verbal functional head ties in well with the fact that extra argumental datives have only two thematic contributions across constructions and always co-occur with a bound variable further down in the co-phasal structure. According to Kratzer, "semantic binders (λ -operators represented as binder indices) are introduced by verbal functional heads, rather than by "antecedent" DPs, as assumed in Heim and Kratzer (1998), for example. Verbal functional heads, rather than DPs, are then the true syntactic antecedents for bound pronouns" (Kratzer 2009:193). Instead of verbal functional heads, we will speak of Voice heads or, more generally, of theta heads, in order to refer to heads that introduce a theta role and host DPs in their specifiers. Such heads are unifications of Pytkänen's (2002) "low" and "high" applicative heads.

Challenge: Now, the question is whether our analysis of binding by theta heads can cover the new data of obligatory binding in (3) - (6). This would be the case if the binder arguments here are extra arguments, rather than lexical arguments of the verb.

