

Transitive Expletive Constructions and the Object Shift Parameter

Jan Koster and Jan-Wouter Zwart

1. Introduction

Existential expletive constructions featuring transitive verbs (*buy*) and unergative intransitive verbs (*dance*) (hence, transitive expletive constructions or TECs) are attested in a number of Germanic languages (Dutch, Frisian, German, Icelandic), but not in others (English, and the Mainland Scandinavian languages Norwegian, Danish, Swedish):

- | | | | | | | | |
|--------|-------|--------|---------|----------|---------|----------------|---------|
| (1) a. | Er | heeft | iemand | een huis | gekocht | Dutch | |
| | there | has | someone | a house | bought | | |
| | b. | * | There | has | someone | bought a house | English |
| (2) a. | Er | danste | iemand | | | Dutch | |
| | there | danced | someone | | | | |
| | b. | * | There | danced | someone | | English |

It has been noted (by Bures 1992, referred to in Bobaljik and Jonas 1996:210) that the Germanic languages allowing TECs also allow Object Shift (yielding nonadjacency of the verb and its internal argument):

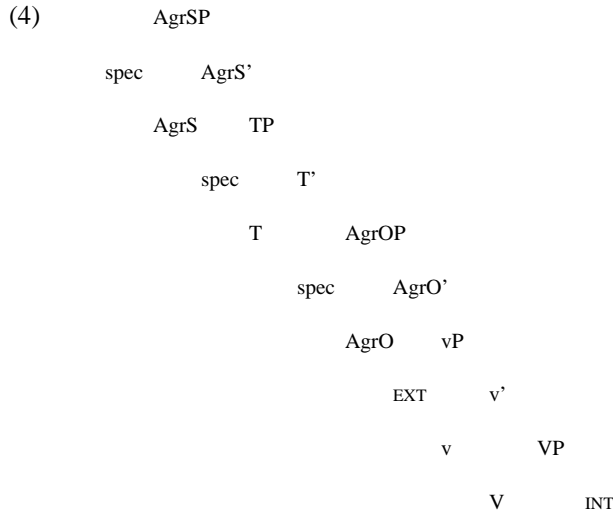
- | | | | | | | |
|--------|-----------|-----------------|----------|------------------|----------------|---------|
| (3) a. | ..datJan | het huis | niet | kocht | Dutch | |
| | that John | the house | not | bought | | |
| | b. | * | John did | the house | not buy | English |

This correlation of TECs with Object Shift is unexplained.

In this article, we argue that Koster's (1999a,b) analysis of the difference between Dutch and English as involving individual vs. collective licensing provides a straightforward account of the presence vs. absence of TECs in the two groups of languages. Object Shift occurs only in languages where the elements of the VP are licensed individually, such as Dutch. In English, the elements of the VP are licensed by moving the VP as a whole (pied piping) to the specifier position of TP. As a result, the expletive *there* and the associate *someone* in (1b) and (2b) compete for the one remaining subject position, the specifier position of AgrSP, and cannot cooccur.

2. The Role of Spec,TP

For the purpose of this article, we assume the basic clause structure illustrated in (4)(cf. Chomsky 1991):



In (4), *EXT* and *INT* mark the base positions of the external and internal argument of the verb, and *v* is a light verb (importing agentive or causative semantics) which is present in transitive and unergative constructions only (cf. Chomsky 1995:315). The internal and external arguments of the verb must be formally licensed as objects or subjects in the specifier positions (*spec*) of the functional projections AgrSP, TP, and AgrOP. In this approach, Spec,TP and Spec, AgrSP are both considered to be subject licensing positions, and AgrOP is the object licensing position.

The two subject licensing positions Spec,AgrSP and Spec,TP are both needed in transitive expletive constructions, where the expletive occupies Spec,AgrSP and the associate Spec,TP (Jonas 1996:168; also Zwart 1992:489):

- (5) [_{AgrSP} Það byggðu [_{TP} margir Íslendingar [húsi í Þórshöfn]]] Icelandic
there built many Icelanders houses in Tórshavn

If this is correct, we may hypothesize that in a language without TECs (e.g. English) one of the two subject licensing positions Spec,TP and Spec,AgrSP is not available. This hypothesis is investigated in Bobaljik and Jonas (1996), who argue that Spec,TP is not available in English, and we concur in assuming as a general starting point the hypothesis in (6):

- (6) Absence of TECs indicates nonavailability of Spec,TP as a subject licensing position

We differ, however, in how we propose to derive the nonavailability of Spec,TP.

3. Deriving the nonavailability of Spec,TP

Bobaljik and Jonas (1996), building on Bures (1992), propose to derive the (non)availability of Spec,TP from the theory of local movement—involving a ‘Shortest Move’ requirement—of Chomsky (1993). According to this theory, the internal and external argument (*INT* and *EXT* in (4)), when moving to their licensing positions (one of the *spec*-positions in (4)), may not cross another *spec*-position, unless the argument’s base position and the intervening *spec*-position may be considered as ‘equidistant’ from the targeted licensing position. The situation of equidistance, Chomsky (1993:17-18) proposes, is obtained when the projection containing the argument’s base position and the projection containing the intervening *spec*-position are connected via head movement. Thus, in (7a) the *spec*-position of AgrOP intervenes between the base position of the external argument *EXT* and the *spec*-position of TP, but in (7b), after head raising from AgrO to T, Spec,AgrOP and Spec,vP are equidistant from Spec,TP, and the external argument may raise from Spec,vP to Spec,TP without violating the Shortest Move requirement:

(7) a. $[_{TP} \textit{spec} T [_{AgrOP} \textit{spec} \textit{AGRO} [_{vP} \textit{EXT} v [\dots]]]]$

b. $[_{TP} \textit{spec} \textit{AGRO-T} [_{AgrOP} \textit{spec} t_{\textit{AGRO}} [_{vP} \textit{EXT} v [\dots]]]]$

If head movement is not available as a way to satisfy the Shortest Move requirement, another option exists, namely to simply leave the intervening *spec*-positions out (Bobaljik and Jonas 1996:200):

(8) $[_{AgrSP} \textit{spec} \textit{AGRS} [_{TP} T [_{AGROP} \textit{AGRO} [_{vP} \textit{EXT} v [\dots]]]]]]$

The derivations connected with (7) and (8) are radically different. In (8) the external argument moves to its licensing position Spec,AgrSP in one step, whereas in (7), the external argument must first land in Spec,TP, the only landing site made accessible by the AgrO-to-T movement. That is, a derivation like (9) is not available, as AgrSP and AgrOP are not connected via head movement (i.e., AgrO can only move to T, and the AgrO-T combination can move to AgrS, but AgrO

cannot move to AgrS, and hence AgrOP can be connected to TP, but not to AgrSP):

$$(9) \quad [_{AgrSP} \textit{spec} \textit{AGRS} [_{TP} \textit{AGRO-T} [_{AgrOP} \textit{spec} \textit{t}_{AGRO} [_{vP} \textit{EXT} \textit{v} [\dots]]]]]]$$

It now follows that if a language generates Spec,AgrOP, it must also generate Spec,TP. If a language does not generate Spec,AgrOP, Spec,TP need not be generated, as the derivation in (8) is available. Crucially, Spec,AgrOP is generated in all languages featuring Object Shift (movement of the internal argument to Spec,AgrOP). As English lacks Object Shift, there is no need to generate Spec,TP.

This is how Bobaljik and Jonas (1996) derive the absence of Spec,TP in English.

4. Problems

We believe that the proposals in Bobaljik and Jonas (1996) are not sufficient to derive the nonavailability of Spec,TP in English.

First, their argument shows that all Object Shift languages generate Spec,TP. But it does not follow that languages without Object Shift, such as English, *must not* generate Spec,TP.

Second, we know that the verb movement illustrated in (7b), making Spec,TP available, is equally present in Continental West Germanic languages (Dutch, Frisian, German) and Mainland Scandinavian languages (Danish, Norwegian, Swedish). Following Zwart (1997a), we assume that it takes place overtly in main clauses, and covertly (i.e. by way of feature movement) in embedded clauses. Others, e.g. Vikner (1995), have argued that it takes place in main clauses only. Either way, the two groups of languages behave the same. Yet Continental West Germanic allows TECs, and Mainland Scandinavian does not.

Third, Bobaljik and Jonas' (1996) argument is hard to recast in the framework of Chomsky (1995, section 4.10), where the AgrSP and AgrOP of (4) have been eliminated, and the specifiers of these projections are redefined as outer specifiers of TP and vP, respectively. In this system, Spec,TP is always present, and the question becomes why TP has two specifier positions in some languages, such as Dutch, but only one in others, like English. Chomsky's (1995:354) solution to that problem is to simply stipulate that Dutch type languages may 'check the EPP feature twice' (i.e. may have two subjects).

Fourth, expletive constructions in Dutch and English differ in a number of other aspects, in addition to the valency of the verb (cf. Zwart 1991). Thus, Dutch, but not English, allows impersonal passives (10), a 'strong', partitive reading of the associate (11)(De Hoop 1990:280), and individual level predication over the associate (12)(De Hoop 1992:171):

- | | | |
|--------|---|---------|
| (10)a. | Er werd gedanst there was danced | Dutch |
| b. | * There was danced | English |
| | | |
| (11)a. | ..datter veel katten in de tuin zijn that there many cats in the garden are (existential/partitive) | Dutch |
| b. | There are many cats in the garden (existential/*partitive) | English |
| | | |
| (12)a. | Er zijn veel mensen ziek/intelligent there are many people sick/intelligent | Dutch |
| b. | * There are many people sick/*intelligent | English |

Bobaljik and Jonas' (1996) explanation for the distribution of TECs sheds no light on these differences.

In the remainder of this article, we propose an alternative way of deriving the nonavailability of Spec,TP in English. Like Bobaljik & Jonas (1996), we believe that the key to our understanding of the differences between languages with and without TECs lies in the observation that (within Germanic) the group of TEC languages and the group of Object Shift languages coincide ('Bures' Generalization'). The question is, why.

5. The Object Shift Parameter

In Koster (1999a, b) a general proposal is made to explain the difference between English-type VO languages and OV languages like Dutch and German. This proposal builds further on the hypothesis of Zwart (1994) that Germanic OV orders are derived from an underlying (universal) VO order through Object Shift to Spec,AgrOP (cf. (4)) (see Vanden Wyngaerd 1989). This theory has led to the solution of many problems, such as the classical problems connected with extraposition in Dutch and German and the fact that OV order is strongly correlated with Object Shift (Corver and Van Riemsdijk 1997, Zwart 1997b:255).

A less satisfactory aspect of the theory of Zwart (1994) was that the occurrence of Object Shift was made dependent on an arbitrary characterization of AgrO as 'strong' (in case of OV order, as in Dutch) or 'weak' (in case of VO, as in English). This arbitrary parametrization did not provide any further insight.

According to the proposal made in Koster (1999a and b) there is no such thing as a weak-strong parametrization, but rather both groups of Germanic languages (OV and VO) show *overt* movement to Spec,AgrOP and Spec,TP, the positions where the internal argument is licensed and the verb's tense feature are checked. We would like to propose the following generalization:

(13) **Pied Piping parameter distinguishing English from Dutch**

Dutch checks its VP-internal constituents *individually* (by moving them separately), English *collectively* (by moving the whole VP)

Although it is by no means clear why languages differ in this respect, it is generally agreed upon that languages do differ with respect to pied piping. Thus, in American English, wh-movement involves a minimal wh-phrase (14a), whereas in British English wh-movement may involve the entire PP containing the wh-phrase (14b):

- (14) a. Who_i did you talk [_{PP} to *t_i*]?
b. [_{PP} To whom]_i did you talk *t_i* ?

It appears that in this respect, there is quite a bit of variation among the languages of the world, and in several cases even whole clauses can be pied piped (see, for instance, Van Riemsdijk 1994).

The ‘scrambling’ we see in languages like Dutch and German is just a result of the circumstance that the individual heads and phrases are ‘scattered’ over the clause by individual movement to their licensing positions. It is now explained rather than stipulated that English does not show the Dutch type leftward Object Shift (cf. (3b)). Since the whole VP is moved through Spec,AgrOP to Spec,TP, these *spec* positions can no longer serve as landing sites for individual phrases:

(15) **Collective Checking (VP-movement) in English**

[_{AgrSP} SUBJECT AGRS [_{TP} [_{VP} V OBJECT]_i T [_{AgrOP} *t_i* AGRO [_{VP} *v* *t_i*]]]]

In (15), the object is licensed via pied piping when the VP moves through Spec,AgrOP. Similarly, the verb checks its tense features when the VP moves to TP. The only DP that can be moved by itself—because it is not a VP internal element, cf. (4)—is the subject, which is licensed in Spec,AgrSP. (We remain somewhat agnostic about the exact dimension of the verb phrase moving in the process of collective licensing in English. If the verb is in *v*, the constituent moving is actually *v'*, excluding the external argument, or *vP* if external argument extraction can somehow take precedence. The general idea is that what moves is a ‘predicate’, in the sense of a verb with its internal arguments and perhaps some local adverbial material.)

As can be seen in (15), licensing of the VP-internal elements via pied piping has the result that only one subject position is available in English, namely Spec, AgrSP. This explains the absence of TECs in English, which we assume—with Bobaljik and Jonas 1996—to follow from the nonavailability of the second subject position (Spec,TP). Our theory mainly differs as to the nature of the nonavailability of the second subject position.

OV languages like Dutch differ from English in that the *spec* positions ‘visited’

by the VP in (15) are filled by the individual VP constituents (e.g. the object DP; in (16), potential movement of the verb is ignored):

(16) Individual Checking in Dutch

[_{AgrSP} SUBJECT AGRS [_{TP} T [_{AgrOP} OBJECT AGRO [_{vP} v [_{VP} V]]]]]

This has the result that the *spec* position of TP is not occupied by the VP (as in English), so that both Spec,AgrSP and Spec,TP are available as subject positions. In other words, individual checking of DPs explains the correlation between the occurrence of TECs and Object Shift.

Our theory avoids the problems discussed in section 4 above with respect to the proposal of Bobaljik and Jonas (1996)(see section 7 below) and Chomsky's (1995:354) unmotivated stipulation that Dutch-type languages may 'check the EPP feature twice' (in order to allow two subject positions).

6. Summary of independent evidence

In fact, our theory was developed in complete independence of the problem at hand. It is the only theory, so far, that explains the correlation between OV order and leftward Object Shift among the Germanic languages. Moreover, it replaces the arbitrary weak-strong distinction of earlier theories by a pied piping difference, an ill-understood but unavoidable dimension along which languages are generally believed to differ.

Independent evidence supporting our theory can be found in the distribution of adverbs in English and Dutch. For present purposes, we make the simplifying assumption that adverbials come in two broad classes, namely sentence adverbials like *probably* and VP-adverbials like *yesterday* (see Alexiadou 1997 and Cinque 1998 for recent, more refined theories of adverbial structure). We make the more or less standard assumption that sentence adverbials (Adv_1) are outside TP and VP-adverbials (Adv_2) outside VP:

(17) [_{AgrSP} AGRS [Adv_1 [_{TP} T [_{AgrOP} AGRO [Adv_2 [_{VP} v [_{VP} v]]]]]]]]

Our theory explains part of the interesting and otherwise mysterious distribution of adverbials in English, since it predicts that the VP ends up *between* the two classes of adverbials. In other words, we have a principled explanation for the fact that adverbs of class Adv_1 (like *probably*) can still precede the VP, while adverbials like *yesterday* (Adv_2) can only follow:

- (18) a. He probably [_{VP} saw Bill]
 b. * He yesterday [_{VP} saw Bill]
 c. He [_{VP} saw Bill] yesterday

(Some further intricacies of adverbial order and how Dutch and German differ in this respect is discussed in Koster 1999a and 1999b.)

Another remarkable fact is that English adverbial order shows certain scope paradoxes and irregularities as to the correlation of scope and linear order. In languages like Dutch, there is a strict correlation between scope and linear order to

the left of the verb (in embedded OV structures). In English, we often see the same, as in (18a): *probably* has wider scope than the VP. However, this ‘regular’ correlation between scope and linear order breaks down in English examples like the following:

- (19)a. He worked hard yesterday
 b. * He worked yesterday hard

Yesterday has wider scope than *hard*, in spite of the fact that it follows rather than precedes. This makes English an apparent irregular language with respect to the correlation linear order-scope. In an OV language like Dutch, everything seems regular because the element with wider scope (*gisteren* ‘yesterday’) precedes the element with narrower scope (*hard*):

- (20)a. ..dat hij gisteren hard werkte
 that he yesterday hard worked
 ‘..that he worked hard yesterday’
 b. * ..dathij hard gisteren werkte
 that he hard yesterday worked

Assuming that *hard* is a VP-internal constituent, our hypothesis makes English ‘regular’ as well because in the underlying order, the VP is to the right of the adverbial *yesterday* (cf. (15)) :

- (21) [yesterday [_{VP} he v [_{VP} worked hard]]]

Since the whole VP must be moved for purposes of licensing (in this case to the Spec,TP for checking the verb’s tense features), we end up with (19a) as a *derived* structure:

- (22) He [_{TP} [_{VP} worked hard]_i T [yesterday [_{VP} t_i]]] (= (19a))

For reasons of space, this is only a simplified summary of some crucial new explanations following from our hypothesis of collective feature checking by VP pied piping. For further details, the reader is referred to Koster (1999a, b). Importantly, some of the adverb placement facts of English could also be explained by assuming individual movement to the left of the verb and its internal arguments (e.g. Johnson 1991). However, such an analysis needs additional stipulations to account for the fact that in English the verb and its internal argument are strictly adjacent. This adjacency follows from the analysis proposed here, as the verb and its internal argument are displaced as a constituent.

Given the fact that our hypothesis is independently motivated and explains

several otherwise mysterious facts, we propose that the procedure of VP pied piping to Spec,AgrOP and Spec,TP is the very mechanism explaining the nonavailability of the second subject position, Spec,TP, in English. Following the pattern of explanation (but not the details) proposed by Bobaljik and Jonas, we explain the remarkable correlation between Object Shift and the TEC facts.

7. Some further facts

Our hypothesis avoids the problems noted above in section 4, and makes some interesting further predictions.

The core of the explanatory pattern we have proposed so far is that of the two potentially available subject positions (the *spec* positions of AgrSP and TP, cf. (4)), the second (Spec,TP) is no longer available for DPs in languages like English since it is occupied by the VP. This makes the strong prediction that not only TECs but all other constructions requiring two subject positions are excluded in English-type languages.

Thus, impersonal passives are possible in languages with Object Shift and TECs (like Dutch), but not in languages with VP pied piping like English:

- (23) a. Er werd gedanst
 there was danced
 b. * There was danced

The explanation of this correlation is straightforward under our assumptions if we assume, as in Koster (1987:261), that impersonal passives like (23a) involve an empty noun phrase associate to the locative expletive *er* ‘there’:

- (24) Er werd [_{DP} e] gedanst

This analysis is based on the idea that locative expletives like *er* need a nominal associate to fulfill the subject role and that this nominal associate (an empty subject) must be licensed in a subject position. This subject position, Spec,TP, is available in Dutch (25a), but not in English (25b):

- (25) a. Er werd [_{TP} [_{DP} e]] T [_{VP} ...gedanst...]]
 b. [_{NP} There] was [_{TP} [_{VP} danced]_i] T [_{VP} t_i]]

Notice that the Mainland Scandinavian languages (Danish, Norwegian, Swedish), who side with English in disallowing Object Shift and TECs, do allow impersonal passives (Koch Christensen 1991:53, Vikner 1995:209):

- (26) Det ble klaget Swedish

it PASS.AUX complained

Here, however, the expletive is not locative, and may fulfill the subject role without support of an associate. (Danish differs from Norwegian and Swedish in employing the locative expletive *der* in these constructions, leaving us with a problem for further research.)

In general, constructions introduced by *there* in English can only be followed by a subject if the subject is internal to the VP, so that it can participate in collective checking through the VP:

(27) There [_{VP} are [_{SC} many cats in the garden]]

In this example, the subject *many cats* is not external to the VP but internal to its Small Clause complement, as indicated by the bracketing. In the Dutch counterpart to (27), however (cf. (11)), *veel katten* ‘many cats’ can be in the *spec* of TP (Zwart 1992:489), which leads to the differences in interpretation noted above in (11)-(12).

The relevant facts follow from our proposal, on the common assumption that VP-internal elements receive an existential interpretation (Diesing 1990, De Hoop 1992). In English, the internal argument is stuck inside VP throughout the derivation, and cannot escape existential interpretation. In Dutch, the internal argument moves out of VP and can take on a ‘strong’, partitive reading in Spec,TP. (We have to assume that existential interpretation is available for elements outside VP as well, in order to derive the weak reading of (11a); see Koster 1994 and Zwart 1995 for discussion.) As individual level predication over an indefinite subject (cf. (12)) is only possible if the indefinite gets a partitive interpretation (De Hoop 1992:171f), the facts in (12) reduce to those in (11).

In short, the analysis proposed here does not encounter the problems connected with the Bobaljik and Jonas analysis noted in section 4. In addition, our proposal connects the further differences between English and Dutch in the domain of expletive constructions listed in (10)-(12) to the single parameter needed to account for the distribution of TECs, the parameter of individual vs. collective licensing.

We can add a further observation in support of our analysis. Our argument rests on the assumption that of the two subject positions, Spec,AgrSP and Spec,TP (cf. (4)), only Spec,AgrSP is available for DPs. This leaves open the possibility that the associate in English is licensed in a position other than Spec,AgrSP or Spec,TP. We believe that this possibility is instantiated in examples like (28), discussed in Chomsky (1995:343):

- (28) a. There hit the stands *a new journal*.
b. There visited us last night *a large group of people who traveled all the way from India*.

The italicized associates in (28) are clearly in a different kind of position from the associates in the Dutch examples discussed so far (as evidenced by the sentence final position). We would like to propose that these 'heavy noun phrases' are extracted to a focus position to the immediate left of the VP, followed by VP movement across the focus position to TP, as discussed above. In this type of derivation, the subject would be licensed in the focus position, and the nonavailability of Spec,TP would be irrelevant. Precisely in these circumstances, then, does English seem to allow TECs. This strengthens the starting point of our analysis, namely that the key factor in our understanding of the distribution of TECs is the availability of Spec,TP.

8. Conclusion

In this article we have argued that the correlation between the distribution of transitive expletive constructions and Object Shift in Germanic (+TEC/OS: Dutch, German, Frisian, Icelandic; -TEC/OS: English, Mainland Scandinavian) is explained on the assumption that VP-internal elements move *individually* in the + group and *collectively* in the -group. As a result, Spec,TP is available for noun phrases in Dutch etc., creating the possibility of TECs with the associate noun phrase in Spec,TP, but not in English etc., where Spec,TP is occupied by the VP. The analysis also accounts for further differences w.r.t. expletive constructions in the two groups of languages, notably the occurrence of impersonal passives and the possibility of nonexistential interpretations of the associate noun phrase.

Though further research is needed to assess wider the implications of the proposal, we feel it gains support in that it allows us to replace stipulated differences among languages with a single independently established dimension of variation: individual vs. collective licensing.

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Jan Koster
Department of Linguistics
P.O. Box 716
NL-9700 AS Groningen
+31.50.3635974
koster@let.rug.nl

Jan-Wouter Zwart
NWO/Department of Linguistics
P.O. Box 716
NL-9700 AS Groningen
+31.50.3635813
zwart@let.rug.nl