Cognitive Linguistics Research 13

Editors
René Dirven
Ronald W. Langacker
John R. Taylor

Historical Semantics and Cognition

Edited by
Andreas Blank
Peter Koch



Mouton de Gruyter Berlin · New York 1999

Mouton de Gruyter Berlin · New York

Cognitive aspects of semantic change and polysemy: the semantic space HAVE/BE

Peter Koch

1. The semantic space HAVE/BE

At least since Lyons's famous (1967) article, linguists have been interested in the interlacements of possessive, existential, and locative predicates from a cross-linguistic perspective. Localist and/or generative approaches, accounting for the relevant interlacements in terms of a unitary underlying structure, have been challenged by typological and/or cognitive approaches which, while acknowledging the lexical diversity of natural languages, nevertheless make cautious semantic generalizations, where cross-linguistic insights enable us to do so (cf. Bickerton 1981; Wilson 1983; Hengeveld 1992; Heine 1997; Feuillet 1998). The point I want to stress here is the importance of the diachronic evidence from semantic change and – indirectly – from polysemy, which allows us to formulate cognitively valid generalizations even in lexical semantics.

In the area HAVE/BE, as I term it for the sake of convenience, Bickerton (1981: 244-246) proposes a kind of "semantic space" like Figure 1 in order to account for the joint lexicalization of different semantic categories on the bases of adjacency:

OWNERSHIP	LOCATION
POSSESSION	EXISTENCE

Figure 1. The semantic space HAVE/BE (after Bickerton 1981: 245)

In the meantime, this fourfould schema has turned out to be neither sufficient nor fully adequate for providing all the adjacencies we need (cf., e.g., Wilson 1983). Furthermore, the theoretical basis of 'adjacency' itself is not quite clear. Is it a relation of adjacent storage in our mind (whatever that may mean)? Is it a relation between categories of the same conceptual taxonomy (so that from a diachronic perspective we could really speak of "extension" from one category to the other)? Is it a relation of elements of the same conceptual frame (so that we could speak of conceptual "contiguity": cf. Note 8)? Above all, does it always represent the same kinds of relationship (so that OWNERSHIP: POSSESSION = OWNERSHIP: LOCATION etc.)?

In Koch 1993, I proposed a refined onomasiological grid (Figure 2) for the semantic space HAVE/BE. First of all, I distinguish four conceptual categories, which, albeit in varying combinations and constellations and with differences in terminology, regularly occur in publications on central conceptual distinctions in verbal and predicate semantics (cf. Lyons 1967; Pottier 1974: 109-116; Clark 1978; Bickerton 1981: 245; Koch 1981: 260-276; Hagège 1982: 46; Wilson 1983; Hengeveld 1992: 73-126; Heine 1997; Feuillet 1998: 670-673):³

- with only one participant x:
 - 1. ASCRIPTION, as in example (1);
 - 2. EXISTENCE; as in example (2);
- each with two participants x and y:
 - 3. possession, as in example (3); x = the possessed; y = the possessor;
 - 4. location, as in example (4): x =the located; y =the locality.
- (1) Engl. John, is ill. ASCRIPTION
- (2) Engl. There are many unhappy peoplex. EXISTENCE
- (3) Engl. Johny HAS a book, Possession
- (4) Engl. The book, WAS on the table, LOCATION

I would like to stress that the (partly displaced) "adjacency" of these four categories in Figure 2 is only a matter of graphic representation. The actual semantic relationships between the four domains (or parts of them) have to be specified on the conceptual level, as we will see in sections 2-5.

On the basis of cross-linguistically observable lexical facts, there are two further conceptual distinctions to be made, which cut across the four main categories represented in Figure 2:

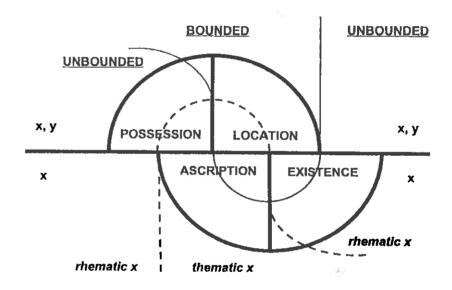


Figure 2. The semantic space HAVE/BE (according to Koch 1993)

First, there is the distinction between the (inherent) thematicity and the rhematicity of participant x. Thus, for LOCATION we can distinguish, with respect to participant x, THEMATIC LOCATION from RHEMATIC LOCATION.

(4) a. Engl. The book_x was on the table_y. THEMATIC LOCATION (x = thematic)

b. Engl. THERE WAS a book_x on the table_y. RHEMATIC LOCATION (x = rhematic)

But as illustrated by Figure 2, this distinction applies to POSSES-SION and to EXISTENCE as well.⁴

At first glance, the connection between thematicity/rhematicity and certain predicative concepts instead of sentences seems a bit misleading, because we are used to assigning degrees of thematicity or rhematicity rather to elements of a sentence (e.g. subject, direct object etc.). Nevertheless, inherent degrees of thematicity or rhematicity attributed to participant slots are essential for differentiating between semantically similar verbs and for relating them to each other (cf. Koch 1981: 93-95, 341-342, 352-356, 1991: 297-301; Oesterreicher 1991). This is conclusively demonstrated, for instance, by Sp. estar (THEMATIC LOCATION) as opposed to haber (RHEMATIC LOCATION):

(5) a. Sp. El libro_x ESTABA sobre la mesay. THEMATIC LOCATION 'The book was on the table.' (x = thematic) b. Sp. HABIA un libro_x sobre la mesay. There was a book on the table.' (x = rhematic)

In the final analysis, the synchronic situations in Spanish (5a/b) and in English (4a/b) are not so different. In my view, English has nowadays two distinct verbal expressions is, i.e., to be (THEMATIC LOCATION) and there is/there are (RHEMATIC LOCATION), even if the second has developed diachronically from the first (cf. also section 5).

Obviously, the inherent thematicity-rhematicity reliefs of verbs are only valid for unmarked usage. Marked departures from the rule are always possible (cf. [5c]), but this does not impair the inherent thematicity-rhematicity relief of the verb in question:

(5) c. Sp. Libros_x, no HABIA sobre la mesa_y. (x ≠ rhematic!)
'Books were not on the table.'

The second distinction I want to introduce concerns the *bounded-ness* vs. the *unboundedness* of the predication, i.e. its limitation in a spatial or temporal respect:⁵

(2) a. Engl. THERE ARE many lions, in Africa.

BOUNDED EXISTENCE

b. Engl. THERE ARE many unhappy peoplex.

UNBOUNDED EXISTENCE

- (3) a. Engl. John, has a book, in his hand. BOUNDED POSSESSION
 - b. Engl. Johny has a book_x. UNBOUNDED POSSESSION
- (6) a. Sp. Alberto, está pálido.

'Albert has a pale complexion.' BOUNDED ASCRIPTION
b. Sp. Alberto_x es pálido.
'Albert is (being) pale.'
UNBOUNDED ASCRIPTION

The conceptual distinctions represented in Figure 2 provide us with a cognitive map⁶ of the semantic space HAVE/BE, that allows us to retrace characteristic paths of semantic change recurring polygenetically — that is, independently of each other — in different languages of the world and in different epochs of linguistic history. I will allude here to several recurrent patterns and paths (sections 2 and 3) and then later focus on some of them (sections 4 and 5).

2. From LOCATION via BOUNDED POSSESSION to POSSESSION

We can take as our first example a path that is extremely well-known to language typologists. It leads from RHEMATIC LOCATION to BOUNDED POSSESSION and then to POSSESSION in general (cf., e.g., Lyons 1967: 394; Clark 1978: 114; Hagège 1982: 48; Heine 1997: 50-53; for the examples cf. Freeze 1992: 576-577):⁷

(7) a. Russ. На столеу БЫЛА книгах.
'There was a book on the table.' RHEMATIC LOCATION

b. Russ. Уменя, БЫЛА книгах.

'I had a book.'

POSSESSION

(8) a. Finn. Pöydällä, ON kynäx.

'There is a pencil on the table.'

RHEMATIC LOCATION

b. Finn. Liisallay ON miesx.

'Lisa has a husband.'

POSSESSION

(9) a. Hindi Kamree-mee, aadmiix HAI.

'There is a man in the room.'

RHEMATIC LOCATION

b. Hindi Larkee-keey paas kuttaax HAI.

'The boy has a dog.'

POSSESSION

(10) a. Tagalog MAY gerax sa Ewropay.

'There is a war in Europe.' RHEM. LOCATION/EXISTENCE

b. Tagalog MAY relos, a naanai,

'Mom has a watch.'

POSSESSION

A relationship of BOUNDED POSSESSION (x, y) is prototypically linked, i.e., is contiguous, to one of LOCATION (x, y) within the same frame (what I have with me, is, e.g., in my hands, in my pocket etc.). So, the first step of change must be a metonymical⁸ one. Via a figure-ground effect we slip from RHEMATIC LOCATION to RHEMATIC BOUNDED POSSESSION (p. 291, Figure 3: arrow \bullet). The second step, then, is an extension of meaning¹⁰ from RHEMATIC BOUNDED POSSESSION to RHEMATIC POSSESSION in general (arrow \bullet).

This last step of extension of meaning, necessary for reaching the target concept in the examples (7b) – (10b), is part of a more general phenomenon of extension from BOUNDED POSSESSION to POSSESSION in general. To name just one further, well attested type of examples: a very special, but surely prototypical kind of BOUNDED POSSESSION is HOLDING SOMETHING IN ONE'S HAND. There are numerous cases of extension of meaning from this prototype to the whole category of POSSESSION (cf. Buck 1988: s.v. 11.11 HAVE; Koch 1991: 291-292; 1995: 30-31):¹¹

(11) (IE. *kap- 'to grasp, to seize' >) Goth. haban 'to hold' > 'to have' (cf. Engl. have; Germ. haben)

- (12) (IE. *ghabh- 'to grasp, to seize' >) Lat. habere 'to hold' > 'to have'
- (13) Lat. tenere 'to hold' > Sp. tener, Sard. tènnere, Southern It. tenere 'to have'
- (14) Fr. tenir 'to hold' > Guad. Creole (ti)ni 'to have'
- (15) ChSl. jęti 'to take' in relation to im-ě-ti 'to have'

3. Possession, existence and location

A very widespread change consists of transforming verbs of POSSES-SION into verbs of EXISTENCE and further on into verbs of (RHEMATIC) LOCATION. We find the most famous example of this change in the evolution of Latin into the Romance languages. Take, for instance, the meaning 'to have' = RHEMATIC POSSESSION of Lat. habere (cf. also [12]):

(16) a. Lat. Marcusy librum, HABET.

'Marcus has a book.'

RHEMATIC POSSESSION

In preclassical and postclassical Latin, we have several attestations of lat. habere as an impersonal expression of RHEMATIC BOUNDED EXISTENCE, as for example in (16b), and of RHEMATIC LOCATION, as in (16c) (cf. also ThLL: s.v. habere, III C 2, p. 2461, 78 – 2462, 5):

(16) b. OLat. Animae pauxillum_x in mey HABET. (Naevius, before 200 B.C., cit. Manoliu Manea 1985: 111)

'There is very little life in me.'

RHEMATIC BOUNDED EXISTENCE

c. VulgLat. Misi tibe ... chiloma. Entroy HABET collyram, \bar{I} ... (2nd Century A.D., cit. Cugusi 1981: 724)
'I sent you a box [...]. There is a loaf of bread in it [...].'

RHEMATIC LOCATION

It is well known that many Romance languages have continued to maintain these senses of *habere*. Sp. *haber* (which, by the way, totally abandoned the original possessive sense) may serve as an example:

(17) a. Sp. En el pueblo_y HABIA muchas casas_x.

'In the village, there were many houses.'

b. = (5 b)

RHEMATIC BOUNDED EXISTENCE
RHEMATIC LOCATION

Another instance is Fr. il y a (examples (18a) and (18b)), which has a somewhat more complicated history (cf. Kawaguchi 1991: 134-177):

(18) a. Fr. Dans le village, IL Y AVAIT beaucoup de maisons. 'In the village, there were many houses.'

RHEMATIC BOUNDED EXISTENCE

b. Fr. IL YAVAIT un livrex sur la tabley.

'There was a book on the table.' RHEMATIC LOCATION

In Romance languages yet another sense developed, based on the Latin innovation, namely RHEMATIC UNBOUNDED EXISTENCE:

(17) c. Sp. HAY mucha gentex infeliz.

'There are many unhappy people.'

RHEMATIC UNBOUNDED EXISTENCE

(18) c. Fr. IL YA beaucoup de gens_x malheureux.

'There are many unhappy people.'

RHEMATIC UNBOUNDED EXISTENCE

There is overwhelming evidence that all these semantic changes are not idiosyncratic facts of Latin-Romance lexical history. We may compare other completely independent instances of analogous changes in different languages (cf. Clark 1978; Bickerton 1981: 66-

- 67; Buchholz 1989; Hengeveld 1992: 159-160; Heine 1997: 95, 137-138):
- (19) a. Mod.Gr. (coll.) Ο Σπύρος, ΕΧΕΙ ένα γλήγορο αυτοκίνητο_x.
 'Spiros has a fast car.'

 RHEMATIC POSSESSION
 - b. Mod.Gr. (coll.) $\Sigma'\alpha\nu\tau\delta$ $\tau\delta$ $\sigma\pi$ $i\tau\iota_y$ EXEI $\tau\rho\epsilon\chi\delta$ $\nu\epsilon\rho\delta_x$.

(lit. 'in this the house it-has running water')
'In this house there is running water.'

RHEMATIC BOUNDED EXISTENCE

c. Mod.Gr.(coll.) Στήν βαλίτζα_ν ΕΧΕΙ παντελόνια καί παπούτσια_χ.

(lit. 'in the suitcase it-has trousers and shoes') 'There are trousers and shoes in the suitcase.'

RHEMATIC LOCATION

(20) a. Pg. Joãoy tinha uma máquina de escreverx.

'João had a typewriter.'

RHEMATIC POSSESSION

b. Braz.Pg. Um dia não tinha mais ratosx.

'One day, there were no more mice.'

RHEMATIC BOUNDED EXISTENCE

(21) a. Germ. Martiny hat eine Schreibmaschines.

'Martin has a typewriter.'

RHEMATIC POSSESSION

b. Southern Germ. Es hat kein Brotx mehr.

'There is no more bread.' RHEMATIC BOUNDED EXISTENCE

(ex. 22-26 cf. Bickerton 1981: 66-67)

- (22) Guy. Creole Dem get1 wan umanx1 we get2 gyal-piknix2.
- (23) Haw. Creole Get₁ wan wahinix₁ shi get₂ wan datax₂.
- (24) Hait.Creole Gê₁ you fâm_{x1} ki gê₂ you pitit-fi_{x2}.
- (25) Papiamentu Tini u muhexi cu tin2 un yiu-muhex2.
- (26) São Tomé Creole Te₁ ua mwalax1 ku te₂ ua mina-mosax2.

'There is a woman who has a daughter.'

Verb₁: RHEMATIC EXISTENCE

Verb2: RHEMATIC (INALIENABLE) POSSESSION

(27) Guad. Creole Ni₁ sa_{x1} ki ni₂, ni₁ sa_{x1} ki pa ni₂.

(Poullet et al. 1984: s.v. ni)

'There are those who have got something and those who haven't got anything.'

mi1: RHEMATIC UNBOUNDED EXISTENCE

ni₂: RHEMATIC POSSESSION

(28) a. Bulg. ИМАМ(v) една липада, голама.

'I have a large meadow.'

RHEMATIC POSSESSION

b. Bulg. През лятото, ИМА много плодове,

(Buchholz 1989: 333)

'In the summertime there are many fruits.'

RHEM. BOUNDED EXISTENCE

c. Bulg. Само Огнянова, НЯМАШЕ там.

(Buchholz 1989: 334)

'Only Ognjanov was not there.' RHEMATIC LOCATION

(29) a. Nubi áána, fií ma yalá, tinín.

(Heine 1997: 137)

'I have two children.'

RHEMATIC POSSESSION

b. Nubi ákil, fii náa?

(Heine 1997: 137)

'Is there food?'

RHEMATIC BOUNDED EXISTENCE

I think that by taking a cognitive perspective we can try to retrace and understand the different conceptual steps involved in these semantic changes.

4. From bounded possession to bounded existence

Even if we take into account the rather well attested Latin material in ex. (16b) and (16c), several questions arise. Besides other problems that I do not consider insurmountable, ¹² it is not entirely clear which was the first sense to develop from an initially possessive sense of habere: RHEMATIC EXISTENCE or RHEMATIC LOCATION? Our oldest attestation of the impersonal Latin verb habere (16b) rather expresses RHEMATIC BOUNDED EXISTENCE. The second oldest attestation (16c) clearly expresses RHEMATIC LOCATION.

Let's suppose that the passage from RHEMATIC POSSESSION to RHEMATIC BOUNDED EXISTENCE was actually the first step of semantic change (Figure 3: arrow 1). An argument for this hypothesis could be that verbs like have are the simplest and most typical verbs which serve to introduce entities as existing in the universe of discourse (e.g. Once upon a time, there was a king who had three daughters. They all lived in an old castle in the forest...).

In this context, note the Modern Greek personal variant (19d) of (19b):

(19) d. ModGr. Αυτό τό σπίτι, EXEΙ τρεχούμενο νερό,.
 lit. 'This house has running water.' BOUNDED EXISTENCE

In Latin, we can hypothesize an analogous sentence like (16e) as opposed to the "traditional" version (16d)(cf. Bassols de Climent 1948; García Hernández 1992: 167):

(16) d. Lat. Domi est multum vinum,

'In the house there is much wine.'

RHEMATIC BOUNDED EXISTENCE

e. Lat. Domus habet multum vinum,.

lit. 'The house has much wine.'

RHEMATIC BOUNDED EXISTENCE

How could we explain that in (16e) an expression for POSSESSION like *habere* directly replaced an expression of EXISTENCE like *esse* in (16d)? Perhaps it would be easier to relate (16e) to (16f):

(16) f. Lat. Dominus habet multum vinum_x.

'The master has much wine.' RHEMATIC POSSESSION

The step from (16f) to (16e) can easily be accounted for as a case of metonymy. In a given frame, comprising MASTER, HOUSE and WINE, we observe a figure-ground effect from MASTER-WINE to HOUSE-WINE (cf. Note 8). But at this point (16e) could have been

reinterpreted as a metaphor¹³ replacing (16d), i.e. as a metaphor that conceptualizes BOUNDED EXISTENCE in terms of BOUNDED POSSES-SION. When a given object exists in a given PLACE, the PLACE can be regarded as a CONTAINER that is similar to the POSSESSOR of the object.

Metaphor always involves a conceptual leap, but interpreting PLACES as POSSESSORS is a very bold leap, and syntactically, expressions of PLACES, such as participant y in (19d) and in (16e) are non-prototypical subjects of transitive verbs. The same problem can be observed in well-known English examples like (31) with respect to (30):

(30) Engl. Johny HAS money, in his pocket.

RHEMATIC BOUNDED POSSESSION

(31) Engl. The tree(y) HAS a nestx in ity.

RHEMATIC BOUNDED EXISTENCE

The metaphorical and syntactic "shock" provoked by sentences like (19d) or (16e) can be attenuated by also indicating, within the same clause, the fact of LOCATIVE BOUNDEDNESS of the EXISTENCE of x. The locative phrase may be co-referential with the subject (31).

But the locative phrase also may be introduced by switching from a personal construction such as (19d) or (16e) (where the subject participant y still has the form of a POSSESSOR) to an impersonal construction like (19b) (where the subject participant y has simply "evaporated" in favour of a new participant y that again expresses the LOCATIVE BOUNDEDNESS of the EXISTENCE of x). In Latin, we arrive at a construction like (16g) that virtually can have arisen from a blend of types (16d) and (16e): ¹⁵

(16) g. Lat. Domi habet multum vinum,

'In the house there is much wine.'

RHEMATIC BOUNDED EXISTENCE

According to solutions such a (19b) or (16g), the PLACE-POSSESSOR metaphor frequently and polygenetically provides for impersonal expressions of EXISTENCE (Figure 3: arrow ①, corresponding to ex. [19b], [20b], [21b], [22]-[26], [27], [28b], and [29b]). It remains to be seen whether or not the reinterpretation of a metonymy as a metaphor like in (16e), followed by a blend with a construction like (16d), is a factor in analogous processes in other languages, too, or if a direct — and very bold — metaphor from RHEMATIC POSSESSION to BOUNDED EXISTENCE is the ordinary way.

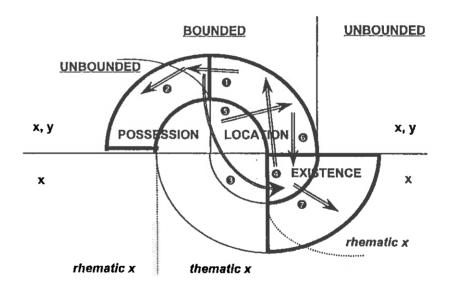


Figure 3. Recurrent paths of semantic change in the space HAVE/BE

5. From EXISTENCE to LOCATION and vice versa

Many languages lexicalize RHEMATIC LOCATION as opposed to THE-MATIC LOCATION. French is one of these languages:

(18) b. (see above)

RHEMATIC LOCATION

c. Fr. Le livrex ÉTAIT sur la tabley. 'The book was on the table.'

THEMATIC LOCATION

On the other hand, it is striking how many of these languages have identical expressions for RHEMATIC EXISTENCE and for RHEMATIC LOCATION (cf., e.g., [2] and [4b], [17a] and [17b], [18a] and [18b], [19b] and [19c]). We could doubt if it is possible at all to distinguish these two categories (cf. Feuillet 1998: 706-707). In my opinion, the close proximity of the concepts of RHEMATIC LOCATION and RHEMATIC EXISTENCE, which is supported by psychological, philosophical, and linguistic observations (cf. also Lyons 1967: 390-391; Bolinger 1977: 99; Holenstein 1980: 32; Bogacki 1988: 24-25), can, and must, be interpreted in terms of contiguity.

As we have already seen, the BOUNDEDNESS of EXISTENCE prototypically, though not always, is due to a LOCATIVE limitation. In such a prototypical frame of BOUNDEDNESS of EXISTENCE, there necessarily is a strong contiguity between EXISTENCE and LOCATION. Thus, if you have at your disposal an expression for BOUNDED EXISTENCE like Lat. habere in (16b/g), it easily slips via a figure-ground effect into an expression of LOCATION (16c). This is a metonymical effect (Figure 3: arrow 4) (cf. Note 8). But in order to grasp this effect, we have to distinguish between two figure-ground constellations: figure = RHEMATIC LOCATION/ground = RHEMATIC EXISTENCE /ground = RHEMATIC LOCATION on the other.

This twofold perspectivization is confirmed by several further linguistic observations (cf. Koch 1993: 181-183 for the first and second points):

First, there are languages such as Spanish, that use largely the same lexical unit for RHEMATIC LOCATION and RHEMATIC EXISTENCE (Sp. haber), but that in some specific cases use the same lexical unit for THEMATIC and RHEMATIC LOCATION (Sp. estar), completely excluding the latter verb, however, from the realm of RHEMATIC EXISTENCE:

(3) c. Sp. Delante del edificio_y ESTABAN el cura y dos monaguillos_x. (Koch 1993: 182) 'In front of the building, the priest and two choirboys were standing.' RHEMATIC LOCATION

In such a case, the distinction between RHEMATIC LOCATION and RHEMATIC EXISTENCE is of indeniable importance.

Secondly, there seem to be languages, like German, that in a very clear-cut way, i.e., by using different lexical units, mark the distinction between RHEMATIC (and THEMATIC!) LOCATION (Germ. sein/liegen etc.: [33a] and [33b]) and EXISTENCE (Germ. es gibt: [33c]):

(32) a. Germ. Auf dem Tischy WAR/LAG ein Buchx.

'There was a book on the table.' RHEMATIC LOCATION

b. Germ. Das Buch, WAR/LAG auf dem Tischy.

'The book was on the table.'

THEMATIC LOCATION

c. Germ. In Afrikay GIBT ES Löwenx.

'There are lions in Africa.' RHEM. BOUNDED EXISTENCE

In such a case, the distinction between RHEMATIC LOCATION and RHEMATIC EXISTENCE is of crucial importance.

Thirdly, the contiguity between EXISTENCE and LOCATION seems to be so strong that we not only observe metonymies from RHEMATIC EXISTENCE to RHEMATIC LOCATION (as described above), but also metonymies in the opposite direction, as, e.g., in English and Italian. How does this come about? First of all, these two languages developed particular expressions for RHEMATIC LOCATION by integrating into the verb for THEMATIC LOCATION an originally deictic element, that is co-referential with the thematic locative participant y (Figure 3: arrow §). Compare for Italian esserci (33b) in relation to essere (33a):

(33) a. It. Il librox ERA sul tavoloy.

'The book was on the table.'

THEMATIC LOCATION

b. It. C'ERA un librox sul tavoloy.

'There was a book on the table.' RHEMATIC LOCATION

Compare for English: there is (4b) in relation to to be (4a) (cf. section 1).

Compared with the originally neutral verb of LOCATION ((4a), (33a)), the new verbal expression ((4b), (33b)), integrating Engl. there/It. ci by a phraseological device, designates a restricted type of LOCATION, namely RHEMATIC LOCATION, whereas the verb Engl. to be/It. essere restricts its meaning to THEMATIC LOCATION. Now, on diachronic grounds it is obviously the novel RHEMATIC LOCATIVE expression that by way of metonymy also became an expression of BOUNDED EXISTENCE in these languages (Figure 3: arrow 6) and not vice versa:

(33) c. It. In Africay CI SONO molti leonix.

'There are many lions in Africa.' BOUNDED EXISTENCE

Compare for English: there is/are (2a).

If we did not distinguish in principle RHEMATIC EXISTENCE and RHEMATIC LOCATION, we would not be able to adequately retrace the opposite diachronic paths in this semantic space:

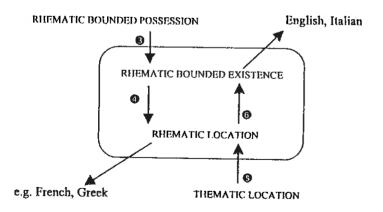


Figure 4. From RHEM. BOUNDED EXISTENCE to RHEM. LOCATION and vice versa

Let us now consider BOUNDED EXISTENCE. This is a special, but prototypical case of EXISTENCE in general. Often speakers, relying heavily on the context, do not even make the boundedness of EXISTENCE explicit (cf. Hengeveld 1992: 97). Thus, (20b)/(21b) could, according to the context, mean that 'there were'is no more mice/bread in the house, in the village, in the country, on earth etc.' Put the other way around, any EXISTENCE is bounded in a certain sense. Even UNBOUNDED EXISTENCE is BOUNDED by the universe of discourse (cf. Bolinger 1977: 99). So it is not surprising, that by extension of meaning, expressions for BOUNDED EXISTENCE — whatever their origin may be (cf. Figure 4) — are extended to EXISTENCE in general (Figure 3: arrow \odot):

(19) e. ModGr. EXEI πολλούς δυστυχισμένους ανθρώπους $_{x}$. (cf. [19b])

(lit. 'it-has many unhappy people') 'There are many unhappy people.'

RHEMATIC EXISTENCE

(28) d. Bulg. *ИМА чудновати хора*х. (Buchholz 1989: 332) (cf. [28b])

'There are strange people.' RHEMATIC EXISTENCE

(32) d. Germ. Es GIBT viele unglückliche Menschen_x. (cf. [32c]) 'There are many unhappy people.' RHEMATIC EXISTENCE

(33) d. It. C'è molta gente_x infelice. (cf. [33c])

'There are many unhappy people.' RHEMATIC EXISTENCE

cf. also: (2b) in relation to (2a) for English;

(17c) in relation to (17a) for Spanish;

(18c) in relation to (18a) for French;

(27): for Guadeloupe Creole (ni₁).

6. Final observations

Lexical change within the semantic space HAVE/BE is not arbitrary. We have demonstrated this partly by referring to ample cross-linguistic evidences elaborated by others (esp. Heine 1997) and partly by carrying out a detailed analysis of apparently recurrent processes of change in this area, giving us insight into the nature of "semantic space". It would certainly be interesting to collect more cross-linguistic data that would corroborate the recurrent nature of the metaphors, metonymies, and extensions of meaning interrelating the concepts of POSSESSION, EXISTENCE and LOCATION.

In a rather conventional way, we followed grosso modo the diachronic succession of changes, asking ourselves "in which direction" a given semantic class of lexical units moved. This may have been a convenient mode of presentation, but we have to realize that it is totally artificial in relation to what really happens in language change. Speakers do not intend to change anything in language (cf. Coseriu 1958), so lexical items are not "directed" anywhere. On the contrary, speakers use lexical units to communicate in the most efficient and successful manner possible that which they want to express. If speakers affect semantic change (and they do), they affect it not by providing existing words with novel meanings (semasiological perspective), but instead indirectly by expressing things through other and/or new words (onomasiological perspective).

So if there really are regularities and "invisible-hand processes" (cf. Keller 1994) in semantic change and if they are, at least to a large extent, by-products of the speakers' activities, then we have to read the results of our investigation "backwards" in order to give them methodological significance (cf. Koch 1997 and in press a). Very tentatively, then, we can make the following statements based on our material: 16

A new expression for EXISTENCE in general is created with more than random probability by extension of meaning from an expression for BOUNDED EXISTENCE (Figure 3: arrow ?).

A new expression for (RHEMATIC) BOUNDED EXISTENCE is created with more than random probability either by metonymy from an expression for RHEMATIC LOCATION (arrow 6) or by metonymy, reinterpreted as metaphor, from an expression for RHEMATIC POSSESSION (arrow 6).

A new expression for RHEMATIC LOCATION is created with more than random probability either by metonymy from an expression for BOUNDED EXISTENCE (arrow 1) or by a phraseological device involving restriction from an expression for LOCATION (arrow 1).

A new expression for RHEMATIC POSSESSION is created with more than random probability by extension of meaning from an expression for RHEMATIC BOUNDED POSSESSION (arrow 2).

A new expression for RHEMATIC BOUNDED POSSESSION is created with more than random probability by metonymy from an expression for RHEMATIC LOCATION (arrow ①).

It would perhaps be possible to demonstrate that these paths of semantic change (that *must* not be used at all) reappear polygenetically in the history of different languages and should be explained by certain cognitive universals underlying our conceptualization of POSSESSION, EXISTENCE and LOCATION.

In any case, the activation or non-activation of these types of semantic change and the resulting interlinguistic differences in the articulation of the semantic space HAVE/BE constitute features highly relevant to language comparaison. These features contribute to what I would like to call 'lexical typology' (cf. Koch, in press b).

Notes

- Cf. Lyons (1967); Langacker (1968); Clark (1978); Foley/Van Valin (1984: 47-53); Kawaguchi (1991); Freeze (1992); Kayne (1993: 4-7). See the critical survey in Heine (1997: 214-222).
- 2. At least since the seminal work of Bréal (1921: 143-144) we know that with respect to semantic change polysemy is only the other (synchronic) side of the coin. Consequently, the old and the new meaning of a lexical, or grammatical, unit can coexist for a while, but at some moment in

diachrony the old meaning (or sometimes the new meaning) can be abandoned (cf. Koch 1991: 293, 1994a: 203-209; Blank 1997: 114-130). Even though Cognitive Semantics and Grammaticalization Theory have "rediscovered" these fundamental facts (Wilkins 1996: 267-270; Heine 1997: 82-83), many linguists still seem perplexed when faced with phenomena of this kind.

- 3. I do not take into consideration here a possible, and probably necessary, additional category EQUATION (e.g. Athens is the capital of Greece), because it will not be relevant for the processes I want to analyze. I am also awars—of the internal, possibly prototypical, structure of a large category of Possession, including Physical Possession, Inanalienable Possession, etc. (cf. Taylor 1995: 202-203; Heine 1997: 33-41; cf. also Koch 1981: 314-317, 359). For the present purpose, I can exclude all kinds of Inanalienable Possession, the only relevant sub-category being what I call Bounded Possession (as exemplified by ex. [3a] and [30] and as represented in Figure 2). I do not go into details concerning the verbal or non-verbal character of the predication in cases where the categories of the semantic space IIAVE/BE are expressed by copulas or by zero (cf. Hengeveld 1992: 26-30; on the other hand Feuillet 1991, 1998: 664).
- For the category of ASCRIPTION, inherent thematicity of participant x seems to be generalized (cf. example [1]), which does not exclude marked uses of ASCRIPTION predicates as in Engl. Stupid he isn't. - Until now, the thematicity-rhematicity conditions have not been accounted for systematically in studies concerning the semantic space HAVE/BE. However they are often indirectly involved in the description of single categories or parts of this area. Thus, corresponding to THEMATIC vs. RHEMATIC POSSESSION we find: "prédicat d'appartenance" vs. "prédicat de possession" (Benveniste 1960: 196-197); "possess₂" vs. "possess₁" (Clark 1978); "ownership" vs. "possession" (Bickerton 1981: 245); "non-presentative possessive" vs. "presentative possessive" (Hengeveld 1992: 125-126); "belong'-constructions" vs. "have'-constructions" (Heine 1997: 29-33). Corresponding to THEMATIC vs. RHEMATIC EXISTENCE we find: "modèle Cogito, ergo sum" vs. "modèle il y a + GN" (Feuillet 1998: 730-707; cf. also Koch 1993: 180-181). Corresponding to THEMATIC vs. RHEMATIC LOCATION, we find "nonpresentative locative" vs. "presentative locative" (Hengeveld 1992: 125-126, with a clear-cut distinction from "existential"), or "locative/situative" vs. "existential" (Clark 1978; Hagège 1982: 46, 49; Freeze 1992: 553). Note that in the latter, very current, terminology the distinction between RHEMATIC LOCATION and EXISTENCE proper - as in (2) -fades away unduly (cf. section 5 for more details).
- 5. For the category of LOCATION, inherent boundedness of the predication is logically necessary (cf. ex. [4]). Until now, the inherent boundedness of

the predication has not been accounted for systematically in studies concerning the semantic space HAVE/BE. However they are often indirectly involved in the description of single categories or parts of this area. Thus, corresponding to BOUNDED vs. UNBOUNDED EXISTENCE we find: "presentative locative" vs. "existential" (Hengeveld 1992: 97, 125f.). Roughly corresponding to BOUNDED vs. UNBOUNDED POSSESSION we find: "physical possession" vs. other types of "possession" (Heine 1997: 34; cf. above n. 3). Corresponding to BOUNDED vs. UNBOUNDED ASCRIPTION, we find: "énoncé [à localisation temporelle et modale] et situé par rapport au locuteur" vs. "énoncé hors de toute localisation temporelle et modale et hors de la subjectivité du locuteur" (Benveniste 1960: 160, cf. also 167); "attribut" vs. "essence" (Hagège 1982: 48-49); "qualification incidentielle" vs. "qualification essentielle" (cf. Feuillet 1998: 725; cf. 711-725).

- For the principle of semantic or cognitive maps, cf. Anderson (1982); By-bee (1985: 195-196); Croft et al. (1987); Haspelmath (1997: 59-62). Cf. however the critical remarks above concerning the interpretability of "adjacencies".
- 7. In Heine's 100 language sample, this designation type for POSSESSION covers 20.9% (cf. Heine 1997: 75).
- 8. As for this understanding of metonymy and contiguity in relation to prototypicality and figure-ground effects, cf. Koch (1995: 40-41, 1999); Blank (1997: 235-243). (What Traugott and König [e.g. 1991] call "pragmatic strengthening" or "conventionalization of a conversational implicature" is a kind of metonymy.) Note that the notion of prototypicality that we have to apply here is an onomasiological one (cf. Koch 1996). In this sense, contiguity is an external relation between distinct categories. So, it would not be legitimate to denominate a metonymical process, like the one described, as a "metonymical extension" of the category RHEMATIC LOCATION.
- Just as I use "RHEMATIC LOCATION" for "LOCATION with a rhematic participant x", so also "RHEMATIC BOUNDED POSSESSION" for "BOUNDED POSSESSION with a rhematic participant x" etc.
- 10. As for this understanding of (true) extension to a whole category, a process that is virtually, but not necessarily, in relation to prototypicality, cf. Koch (1995: 30-31); Blank (1997: 200-206).
- 11. According to Heine (1997: 75), the so called "action'-type" for the designation of POSSESSION covers 13.6% of the 100-language sample. The term "action", however is misleading in this context, because the immediate conceptual basis of these designations for POSSESSION is HOLDING IN ONE'S HAND. (The designation for HOLDING IN ONE'S HAND may in turn go back to a word designating the action of GRASPING/TAKING; but for some languages, as far as we know, this is not at all certain: cf. L. tenere 'hold'

as antecedent in ex. [13]-[14]. Anyway, it is not the concept of ACTION as such that motivates new designations for POSSESSION, but the – in my view prototypical – case of BOUNDED POSSESSION).

- First of all, Greek influence as been invoked (cf. Svennung 1932: 84; Luque Moreno 1978: 138-140; García Hernández 1992: 166-167). If this should be correct, we would have to count the Greek and the Romance attestations of the POSSESSION -> EXISTENCE pattern as only one occurrence. But this would not detract from the broad polygenetic evidence for this pattern. Secondly, a different meaning of L. habere has been considered the source of the existential meaning, namely 'to be in a state' (with possible Greek parallels in this case as well). This explanation cannot be excluded apriori on lexicological grounds, so that it would be possible to interpret the syntactically ambiguous noun phrase animae pauxillum, in (16b) not as the object of an impersonal verb habet, but as the subject of a personal form habet (cf. Luque Moreno 1978: 138-146; García Hernández 1992: 170; Manoliu Manea 1985: 111; indeed, habet is also attested with unambiguous subject participants x: cf. ThLL: s.v. habeo, III C 2, p. 2461, 65-77). But even on this assumption, one has to postulate that the impersonal type domi, habet multum vinum, no, lit. 'in the house it-has much wine', is the result of a contamination between the personal type domi, habet multum vinum, s, lit. 'in the house is much wine', and the personal type domus, s habet multum vinum, bit, 'the house has much wine' (Luque Moreno 1978: 145). Thus, it seems impossible to totally disregard the role of the latter, metonymical/metaphorical type on a clearly possessive basis that is much closer to the etymological meaning of habere (cf. ex. [12]) and fits perfectly into the polygenetic pattern illustrated by ex. (19) ff.
- 13. For the understanding of metaphor cf. Lakoff/Johnson (1980); Lieber (1992: 14-82); Koch (1994a, 1995: 39-40); Blank (1997: 157-171). Since metaphor always involves a conceptual leap, the (presumed) similarity is an external relation between distinct categories. So, it would not be legitimate to denominate a metaphorical process, like the one described, as a "metaphorical extension" of the category POSSESSION. As for reinterpreting metonymies as metaphors, cf. Taylor (1995: 138); Koch (1997: 234).
- 14. For the "evaporation" of highly thematic subject participants in the genesis of impersonal verbal expressions cf. Koch (1994b).
- 15. Interestingly, our example (16c), although it goes one step further (and expresses RHEMATIC LOCATION), is ambigous with respect to types (16e)/(31) and (16g), since the participant y is anaphorical and therefore implicit.
- 16. It would be more accurate to begin each statement conditionally: "If a new expression X is created ...".

References

Anderson, Lloyd

The 'Perfect' as a universal and as a language particular category.

In: Paul Hopper (ed.), Tense and Aspect: Between Semantics and Pragmatics, 227-264. (Typological Studies in Language 1.) Amsterdam / Philadelphia: Benjamins.

Benveniste, Emile

"Etre" et "avoir" dans leurs fonctions linguistiques. In: Emile Benveniste, Problèmes de linguistique générale. Volume 1, 187-207. Paris: Gallimard.

Bickerton, Derek

1981 Roots of Language. Ann Arbor: Karoma.

Blank, Andreas

1997 Prinzipien des lexikalischen Bedeutungswandels am Beispiel der romanischen Sprachen. (Beihefte zur Zeitschrift für Romanische Philologie, 285.) Tübingen: Niemeyer.

Bogacki, Christophe

1988 Les verbes à argument incorporé. Langages 89: 7-26.

Bolinger, Dwight

1977 Meaning and Form. (English Language Series 11.) London / New York: Longman.

Bassols de Climent, Mariano

Origen de la construcción impersonal del verbo habere. Revista de estudios clásicos 3: 215-225.

Bréal, Michel

51921 Essai de sémantique (Science des significations). Paris: Hachette.

Buchholz, Oda

1989 Zu Konstruktionen mit unpersönlich gebrauchtem 'haben' in den Balkansprachen. Zeitschrift für Phonetik, Sprachwissenschaft und Kommunikationsforschung 42: 329-338.

Buck, Carl D.

A Dictionary of Selected Synonyms in the Principal Indo-European Languages. Chicago / London: University of Chicago Press.

Bybee, Joan L.

1985 Morphology: A Study of the Relation Between Meaning and Form.
(Typological Studies in Language 9.) Amsterdam / Philadelphia:
Benjamins.

Clark, Eve V.

Locationals: existential, locative, and possessive constructions. In: 1978 Joseph H. Greenberg (ed.), Universals of Human Language. Volume 4. Syntax, 85-126. Stanford: Stanford University Press.

Coseriu, Eugenio

Sincronía, diacronía e historia. El problema del cambio lingüístico. 1958 Montevideo: Universidad de Montevideo.

Croft, William, Hava Bat-Zeev Shyldkrot and Suzanne Kemmer

Diachronic semantic processes in the middle voice. In: Anna Giaca-1987 lone-Permat, Onofrio Carruba and Giuliano Bernini (eds.), Papers from the 7th International Conference on Historical Linguistics, 179-192. (Current Issues in Linguistic Theory 48.) Amsterdam / Philadelphia: Benjamins.

Cugusi, Paolo

Gli ostraka latini dello Wâdi Fawâkhir. Per la storia del latino. In: 1981 Letterature comparate. Problemi e metodi. Studi in onore di Ettore Paratore, II, 719-753. Bologna: Patron.

Feuillet, Jack

Phrases nominales et phrases à verbe "être". EUROTYP Working 1991 Papers nº 1.

Typologie de "être" et phrases essives. In: Jack Feuillet (ed.), Ac-1998 tance et Valence dans les Langues de l'Europe, 663-767. (Empirical Approaches to Language Typology. EUROTYP 20-2.) Berlin / New York.

Foley, William and Robert D. Van Valin jr.

Functional Syntax and Universal Grammar. (Cambridge Studies in 1984 Linguistics 38.) Cambridge: Cambridge University Press.

Freeze, Ray

1992 Existentials and other locatives. Language 68: 553-595.

Garcia Hernández, Benjamin

Nuevos verbos impersonales en latin tardío e influencia griega. In: 1992 Maria Iliescu and Werner Marxgut (eds.), Latin vulgaire - latin tardif III, 159-172. Tübingen: Niemeyer.

Hagège, Claude

1982 La structure des langues. (Que sais-je? 2006.) Paris: Presses Universitaires de France.

Haspelmath, Martin

1997 Indefinite Pronouns. Oxford: Clarendon.

Heine, Bernd 1997

Possession. Cognitive Sources, Forces and Grammaticalization. (Cambridge Studies in Linguistics 83.) Cambridge: Cambridge University Press.

Hengeveld, Kees

1992 Non-verbal Predication. Theory, Typology, Diachrony. (Functional Grammar Series 15.) Berlin/New York: Mouton de Gruyter.

Holenstein, Elmar

1980 Von der Hintergehbarkeit der Sprache. (suhrkamp taschenbuch wissenschaft 316) Frankfurt/M.: Suhrkamp,

Kawaguchi, Junji

1991 AVOIR et les problèmes de la localisation en français. Tokyo: France Tosho.

Kayne, Richard S.

1993 Towards a modulary theory of auxiliary selection. Studia Linguistica 47: 3-31

Keller, Rudi

²1994 Sprachwandel. Von der unsichtbaren Hand in der Sprache. (Uni-Taschenbücher 1567.) Tübingen / Basel: Francke.

Koch, Peter

1981 Verb - Valenz - Verfügung Zur Satzsemantik und Valenz französischer Verhen am Beispiel der Verfügungsverhen. (Reihe Siegen 32.) Heidelberg: Winter.

Semantische Valenz, Polysemie und Bedeutungswandel bei romani-1991 schen Verben. In: Koch and Krefeld (eds.), 279-306.

HABEN und SEIN im romanisch-deutschen und im innerromanischen 1993 Sprachvergleich. In: Giovanni Rovere and Gerd Wotjak (eds.), Studien zum romanisch-deutschen Sprachvergleich, 177-189. (Linguistische Arbeiten 297.) Tübingen: Niemeyer.

Gedanken zur Metapher - und zu ihrer Alltäglichkeit. In: Annette 1994a Sabban and Christian Schmitt (eds.), Sprachlicher Alltag. Linguistik - Rhetorik - Literaturwissenschaft. Festschrift für Wolf-Dieter Stempel, 201-225. Tübingen: Niemeyer.

Dépersonnalisation (et repersonnalisation). L'information gramma-1994Ь ticale 62: 9-11.

Der Beitrag der Prototypentheorie zur Historischen Semantik: eine 1995 kritische Bestandsaufnahme. Romanistisches Jahrbuch 46: 27-46.

1996 La sémantique du prototype: sémasiologie et onomasiologie? Zeitschrift für französische Sprache und Literatur 106: 223-240.

La diacronia quale campo empirico della semantica cognitiva. In: 1997 Marco Carapezza, Daniele Gambarara and Franco Lo Piparo (eds.), Linguaggio e cognizione, 225-246. (Società di Linguistica Italiana 37.) Roma: Bulzoni,

Frame and contiguity. On the cognitive bases of metonymy and cer-1999 tain types of word formation. In: Klaus-Uwe Panther and Günter in press a

Radden (eds.), Metonymy in Language and Thought, 139-167 (Human Cognitive Processing) Amsterdam / Philadelphia: Benjamins. TREE and FRUIT: A cognitive-onomasiological approach. Studi

Italiani di Linguistica Teorica ed Applicata.

in press b Lexical typology. In: Martin Haspelmath, Ekkehard König, Wulf Oesterreicher and Wolfgang Raible (eds.), Typology and Universals. An International Handbook. Berlin / New York: de Gruyter.

Koch, Peter and Thomas Krefeld (eds.)

1991 Connectiones Romanicae. Dependenz und Valenz in romanischen Sprachen. (Linguistische Arbeiten 268.) Tübingen: Niemeyer.

Lakoff, George and Mark Johnson

Metaphors We Live By. Chicago: University of Chicago Press. 1980

Langacker, Ronald W.

Observations on French possessives. Language 44: 51-75. 1968

Liebert, Wolf-Andreas

Metaphernbereiche der deutschen Alltagssprache. Kognitive Lin-1992 guistik und die Perspektiven einer Kognitiven Lexikographie. (Europäische Hochschulschriften I, 1355.) Frankfurt/M.: Lang.

Luque Moreno, Jesús

En torno al sintagma "haber impersonal + sustantivo" y sus 1978 origenes latinos. Revista española de lingüística 8: 125-147.

Lyons, John

1967 A note on possessive, existential and locative sentences. Foundations of Language 3: 390-396.

Manoliu-Manea, Maria

1985 Tipologiá e historia. Elementos de sintaxis comparada románica. (Biblioteca románica hispánica II, 337.) Madrid: Gredos.

Oesterreicher, Wulf

Verbvalenz und Informationsstruktur. In: Koch and Krefeld (eds.), 1991

Pottier, Bernard

²1985 Linguistique générale. Théorie et description. (Initiation à la linguistique B, 3.) Paris: Klincksieck,

Poullet, Hector, Sylviane Telchid and Danièle Montbrand

1984 Dictionnaire des expressions du créole guadeloupéen. Fort-de-France: Hatier.

Raible, Wolfgang

1981 Von der Allgegenwart des Gegensinns (und einiger anderer Relationen). Zeitschrift für Romanische Philologie 97: 1-40.

Svennung, Josef

Wortstudien zu den spätlateinischen Oribasiusrezensionen. 1932 Uppsala: Almqvist & Wiksell.

Taylor, John R.

²1995 Linguistic Categorization. Prototypes in Linguistic Theory. Oxford: Clarendon.

ThLL =

Thesaurus linguae Latinae. 8 vol. Leipzig: Teubner, 1936-66.

Traugott, Elizabeth C. and Ekkehard König

1991 The semantics-pragmatics of grammaticalization. In: Elizabeth C. Traugott and Bernd Heine (eds.), Approaches to Grammaticalization, I, 189-218. (Typological Studies in Language 19.) Amsterdam / Philadelphia: Benjamins.

Wilkins, David P.

1996 Natural tendencies of semantic change and the search for cognates. In: Mark Durie and Malcolm Ross (eds.), The Comparative Method Reviewed, 264-304. Oxford: Oxford University Press.

Wilson, Bob

1983 An examination of cross-linguistic constraints on the lexicalization of predications of ownership, possession, location and existence. University of Hawaii Working Papers in Linguistics 15/2: 1-18.