

COUNTERDIRECTIONALITY CROSS- LINGUISTICALLY: COMPARING BRAZILIAN PORTUGUESE AND DUTCH

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RESUMO

Neste artigo, investigamos a expressão da “contradirecionalidade”, contrastando dados do português brasileiro com o holandês. Num primeiro momento, definimos contradirecionalidade usando dados do inglês, e apresentamos algumas de suas subdivisões que serão então investigadas no português brasileiro e no holandês.

ABSTRACT

In this paper, we investigated the expression of “counterdirectionality”, contrasting Brazilian Portuguese and Dutch data. Firstly, we define counterdirectionality using English data, and we present some of its subdivisions in meaning. Secondly, we investigated the expression of counterdirectionality in Brazilian Portuguese and Dutch, comparing the two languages.

PALAVRAS-CHAVE

Contradirecionalidade; construções espaciais; preposição; semântica; metáfora

KEYWORDS

Counterdirectionality; spatial constructions; prepositions; Semantics; Metaphor

Introduction

In the semantics of verbs and verbal modification, there is a domain that we might characterize, following Fabricius-Hansen (2001) as *counterdirectional*. It involves the description of processes that are in some sense opposite in direction to what is common or presupposed. We find in this domain such expressions in English as the adverbs *back*, *backward(s)*, and *again* and the prefixes *re-* and *counter-*. A detailed study of *back* is offered in Allan (1995) from a cognitive linguistic perspective. There are some typological studies of this domain (Lichtenberk 1991, Wälchli 2006, Moise-Faurie 2012); the concept BACK also plays a role in grammaticalization theory (Heine & Kuteva 2002). The most intensive study is made at the interface of semantics and syntax, with a focus on the so-called repetitive and restitutive meanings of *again* and its German counterpart *wieder* (e.g., Dowty 1979, Von Stechow 1996, Beck 2005, Pedersen 2014).

In this paper we want to contribute to the understanding of this domain on the basis of a comparison of Brazilian Portuguese (BP) and Dutch. Based on a rough inventory and map of counterdirectional senses that we identify for English (section 2), we want to determine what type of markers these languages use to express counterdirectionality and how these markers distribute over the map of senses (section 3). Our goal is to show how these two languages divide up the same set of meanings in sometimes different ways, exhibiting opposite diachronic developments for some of the markers (section 4). Since the concept of counterdirectionality has not been extensively discussed and defined in the literature and is still somewhat vague, another goal of this paper is to make the domain of counterdirectional meaning more precise by replacing it with a family of well-defined semantic categories that are then applied to the two languages in focus.

1. Counterdirectional senses in English

There is not a systematic semantic study of the different senses in the counterdirectional domain. What senses need to be distinguished and how do these senses hang together? All studies distinguish the restitutive and repetitive sense, but apart from that, there is less consensus, which makes the notion of counterdirectionality still somewhat vague. It is important to realize that counterdirectionality is not one single concept, but a family of closely related semantic categories. What we offer in this section is an overview of six senses from this family, inspired by the existing literature. English will be our object language in this section and we focus, more specifically, on the adverbs *back*, *backward(s)*, and *again* when used in combination with verbs or verb phrases. We identify six senses: rearward, retrograde, returnative, responsive, restitutive, and repetitive.

The rearward sense obtains most clearly when a person moves or leans in the direction of his or her back, that is, with the back leading. This is where English has *back* or *backward(s)* (Allan 1995).

- (1)
- a. Dunworthy stepped *backward* and crashed into a six-year-old holding a plush Santa. (Connie Willis – The Doomsday Book)
 - b. In the hunting lodge at Dachigam, Max Ophuls reclining on carpets and cushions leaned *backward*, away from the Indian foreign minister, to whisper to Edgar Wood. (Salman Rushdie – Shalimar The Clown)
 - c. Gravity dragged at her and she fell *backward* on the bed, gasping for air. (Salman Rushdie – Shalimar The Clown)
 - d. I sat *back* in my chair.

It seems that *backward(s)* is the productive adverb for this sense and that *back* is the more lexicalized form, restricted to certain verbs.

Note that these expressions can be used to describe a situation in which a person goes to places where he or she has not been before. This makes the rearward sense different from the returnative sense that we will discuss below. In order to clarify what we should understand by rearward (and also the other senses that we'll see shortly), consider the following figures. In these figures we have a sketch of a path, with a source and a goal, an arrow above the figure indicating direction of movement, and finally the direction which the figure is facing. For the rearward sense, we have two possibilities, as shown by figures 1 and 2:

FIGURE 1: the rearward situation 1

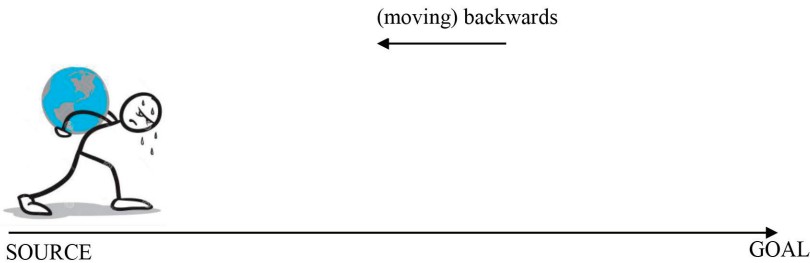
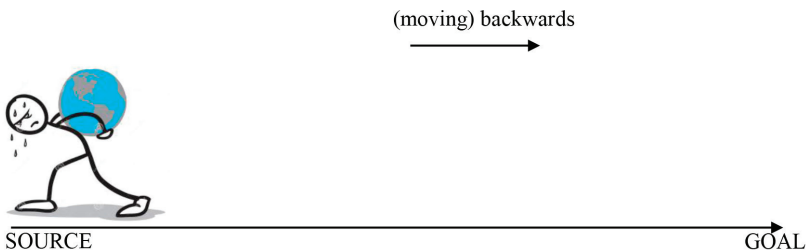


FIGURE 2: the rearward situation 2



As we can see, the rearward sense is independent of the source or of the goal of a path, but it has to do with moving in the direction of one's back (i.e. contrary to the direction one is facing).

Then there is a sense that we would like to call retrograde. This is a movement or process that happens in the opposite direction to what is usual for the verb or context.¹

(2)

- a. I counted *backwards* from 5.
- b. The movie is told *backwards*.
- c. If the scientist was also versed in theology, he or she might see how this cosmogonic event could be construed as a *backward-in-time* emanation from a future “Omega point” that has some of the properties traditionally ascribed to the Judeo-Christian deity. (Jim Holt – Why does the world exist?)

We count numbers, watch movies, and move through time in a particular ‘direction’, in the general sense of an ordering of elements in a particular domain, be it space, time, or numbers. If we follow the opposite direction in those domains, then we are dealing with the variety of counterdirectionality that we call retrograde. For human beings, going backward (with the back leading) is opposite to the usual direction (forward, with the face leading), hence every rearward motion is also a retrograde movement. In this way, rearward and retrograde are closely linked logically.

The most frequent sense of *back* is a sense that we call returnative (others call it reditive, Moysse-Faurie 2012). It helps to describe a movement to a former location or counterdirectionally along an earlier path.

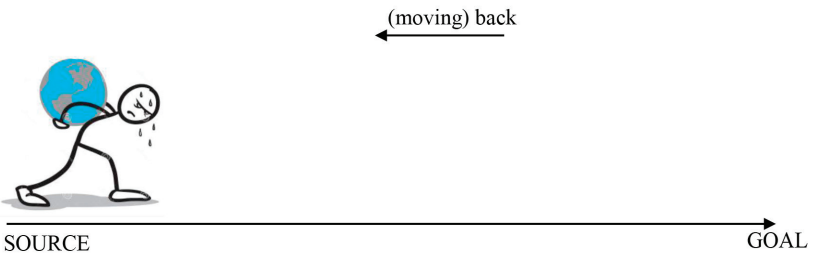
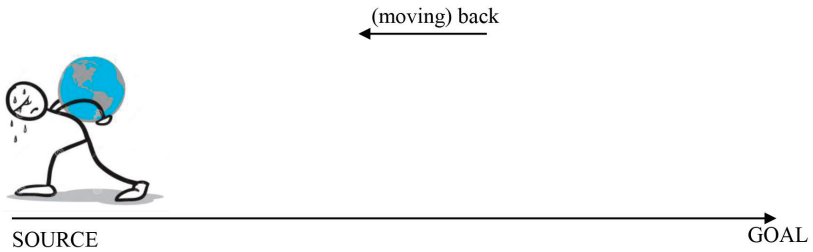
¹ We ignore an additional metaphoric sense that involves development towards a worse state, attested for English backward, as in The party went backward, and also for Brazilian Portuguese and Dutch counterparts.

(3)

- a. She showered and went *back* to Elysian Park, to Santa Monica and Vine, to 29 Palms. (Salman Rushdie – Shalimar The Clown)
- b. The soldiers relaxed. Later that afternoon all three Nomans were on a bus *back* home. (Salman Rushdie – Shalimar The Clown)
- c. I went *back* a few steps.

Suppose a path p is presupposed which the theme has traversed in a salient earlier event and that p_0 is the source of this path. One prototypical possibility is that the theme follows this presupposed path in the opposite direction, all the way to the source p_0 . Two returnative senses are possible as weaker versions of this prototype: (i) the theme goes to the source p_0 via a different path, (ii) the theme follows the path p in opposite direction only partially. We will not further explore these subsenses here. There is a close relation between the returnative and the rearward sense: stereotypically, returning to a former location or along a former path means moving in a direction that one's back was oriented towards (Allan 1995). This explains how the use of the word *back* has been extended from the rearward sense (closely related to the nominal *back* sense) to the returnative sense.

The following figures aim at clarifying the returnative sense. Figure 3 illustrates what is probably the most prototypical exemplification of the returnative sense, in which one returns to the source of the earlier path taken after turning his/her body and now facing the source. Figure 4 shows another possibility of the returnative sense, closely related to the rearward sense, in which one is moving back to the source but without turning his/her body, i.e. facing the goal but moving towards the source with the back leading. For this sense, what matters is the direction of the path more than the direction in which one is facing.



Closely related to the returnative sense is the responsive sense, indicating that an action from A to B is the response to an earlier action of B to A.

(4)

- a. Her mother was calling to her from the far side of the globe. Her mother who didn't die. Kashmir, her mother called, come home. I'm coming, she called *back*. I'll be there as fast as I can. (Salman Rushdie – Shalimar The Clown)
- b. A boy kicked Quentin in the shins, but he didn't kick *back*.

It is Kashmira's call in (4a) that is 'going back' to her mother (not Kashmira herself) and it is a kick of Quentin in (4b) that is denied to have 'gone back' (not Quentin himself). We can understand the responsive sense as involving abstract paths from agent to patient along which the action goes. The counterdirectionality of the responsive sense is no longer defined spatially, but a previous path of action from B to A is followed by a path of action from A to B. In other words, there is an abstract notion of directionality that is shared between motion (from source to goal) and action (from agent to patient) and hence between the concepts of returning and responding, which closely relates the returnative and responsive senses.²

It is a relatively small step from the spatial domain to the domain of change. This is where we find the so-called restitutive senses of *again* and *back*.

(5)

- a. "Alas, there are many who do not love God in these days," Lady Yvolde said, "but we must pray to God that He will set the world right and bring men *again* to virtue."
(Connie Willis – The Doomsday Book)
- b. The noise jarred him *back* awake. (McIntyre 2012)

The change can be along a continuous scale or in a domain of discrete values (e.g. 'asleep' and 'awake'). In both cases the change can be seen as unfolding directionally along a path, in a non-spatial domain. As a result, motion and change share general properties of directionality

² Because motion and action share a general notion of directionality and because motion is more 'basic' than action, there is a fundamental conceptual metaphor ACTION IS MOTION across languages in the Conceptual Metaphor Theory (Lakoff & Johnson 1980). Within that theory the responsive sense of *back* is an instance of that metaphor. For us, the deeper explanation of that metaphor is the shared directionality of motion and action.

and therefore also the returnative and restitutive concepts.³ *Again* is typically used in English here, but *back* is also possible (Beck et al. 2009, McIntyre 2012).

Finally, we arrive at the repetitive sense, expressed with *again* in English, or with *once more*, *once again*, or *anew*.

- (6)
- a. He stopped in midsentence. “Without what?” she teased him, guessing the unspoken words, but he blushed *again* and concentrated on the road ahead. *Without a woman’s touch*. (Salman Rushdie – Shalimar The Clown)
 - b. “The trial is *once more* delayed,” Kivrin heard Gawyn say. “The judge who was to hear it is taken ill.” (Connie Willis – The Doomsday Book)
 - c. The nurse led him out. “If he wakes and calls for you *again*, where can you be reached?” she asked. (Connie Willis – The Doomsday Book)
 - d. The door opened *again*.

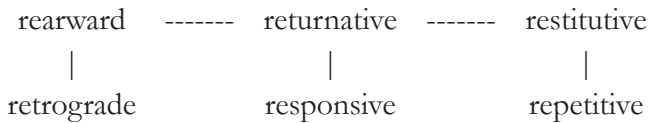
In this case the existence of a previous event of the same type as the described event is presupposed. Since *again* can be used both for the restitutive and the repetitive sense, a well-known ambiguity can be seen in (6d): in the repetitive sense the door had opened before and that change of state is repeated, and in the restitutive sense the door was open before and that state is restituted. There is obviously a close relationship between these two senses, because the restitution of a state implies the repetition of a state. This has fact led people to an analysis with one repetitive *again*, that depending on the position in a syntactic

³This is the basis of the conceptual metaphor CHANGE IS MOTION in the Conceptual Metaphor Theory (Lakoff & Johnson 1980), with restitutive *back* as an example. For us, the returnative and restitutive concepts are related to each other, not because there is a conceptual metaphor in the language that relates these concepts, but because they are related by shared directional structure.

structure, can lead to repetitive or restitutive interpretations (e.g. Von Stechow 1996). For our purposes it is sufficient to recognize that in a restitution there is always a repetition. If the door had been open before and later on there is a change from shut to open (a restitution), then also the state of being open is being repeated. This motivates a link between the restitutive and repetitive senses. See Pedersen (2014) for more discussion about the inferential relation between repetition and restitution.

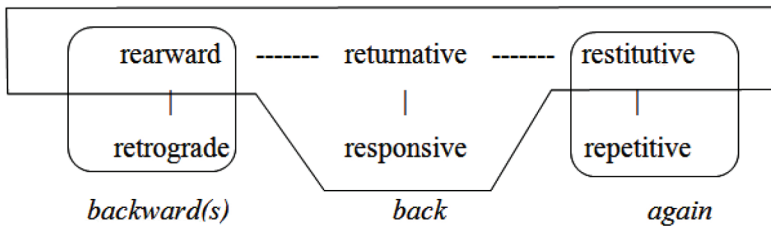
We can summarize the senses we have discussed in this section as a network or map in the sense of Haspelmath (2003) and Zwarts (2010):

FIGURE 5: The network of counterdirectional senses



In this network the lines represent different ways in which the senses are related, but always in such a way that the senses that are most closely related are connected by a line. Because of this, we see something of a coherent domain appearing. Different languages express these senses in different ways. We have seen how English uses *backward(s)* for the rearward/retrograde corner, *back* for the returnive/responsive/restitutive part, and *again* for the restitutive/repetitive side.

FIGURE 6: Lexicalization of counterdirectional senses in English



The map allows us to hypothesize that the set of senses covered by *back* has developed from the etymologically primary rearward sense, closely related to the notion of the human back (Allan 1995), to a range of more abstract senses.

Much more discussion about and refinement of these senses is necessary and possible, but we think that this map offers a good basis to turn now to a detailed exploration of the data in Brazilian Portuguese and Dutch.

2. Counterdirectionality in Brazilian Portuguese and Dutch

2.1 The rearward sense

We are dealing with the rearward sense when a person, animal or object is moving in the direction of its back.

In BP the rearward sense is usually expressed with the verb *recuar* or the adverbials *para trás*⁴ and *de costas* when combined with verbs of movement. It is important to notice that although *recuar*⁵ begins with *re-*, one can argue that we don't have a 're-' prefix in this case because there is no verb *cuar* in BP.⁶ *Recuar* can be translated into English as 'retreat' or 'recede', and it always implies rearward movement, but not necessarily a movement towards some source.

⁴ In BP the preposition *para* can also be written *pra*; this is just a matter of sociolinguistic variation.

⁵ According to etymological dictionaries, the BP verb *recuar* comes from the French verb *reculer* (which means to retreat, to recoil, to back away), and *reculer* has probably derived from the Latin form *calus*, *i* which indicates the part of the body used to sit upon, on the back of the body, which one cannot see, i.e. the buttocks, through a form like **reculare*. We use "probably" because we couldn't find attested instances of these forms.

⁶ Grammars of BP traditionally recognize and treat *re-* as a "repetitive morpheme", but things are much more complicated. In fact, this morpheme can be used to indicate repetition (as we'll see in section 3.6) but also other nuances of meaning related to movement. It is not our aim in this paper to discuss the semantics of this prefix, but we'll consider, for simplification, that its compositional meaning is repetition and all other nuances of meaning are achieved via different mechanisms.

De costas indicates backwards (or contrary to the usual) direction, for instance, when somebody swims *de costas* her back is in the water but not her belly, and when somebody sleeps *de costas* her belly is on the bed but not her back. Finally, when somebody walks *de costas* it means she is moving in the direction of her back but facing front, as in the following example:

- (7) Indiano anda de costas por 25 anos e esquece como é andar para frente⁷.
 Indian person walks backwards for 25 years and forgets how to walk forwards.

The adverbial *para trás* can also be used to indicate the rearward sense, as in the following examples:

- (8)
- a. Cair para trás
 ‘to fall in the direction of one’s back (backward fall)’
 - b. Andar para trás
 ‘to walk in the direction of one’s back without turning’

The expressions *de costas* and *para trás* have a wide range of uses and here we’re considering only their so to say spatial-movement interpretations. It’s important to note that *para trás* has also a retrograde sense, as we’ll see in section 3.2.

- (9)
- a. João recuou.
 João went back (leant back)
 - b. João andou de costas, mantendo contato visual com seu irmão.
 João walked back (in a backward manner) keeping eye contact with his brother.

⁷<http://noticias.uol.com.br/tabloide/ultimas-noticias/tabloideanas/2014/06/06/indiano-anda-de-costas-por-25-anos-e-esquece-como-e-andar-para-frente.htm>

In Dutch we find two adverbs: *terug* lit. to-back ‘back’ and *achteruit* lit. behind-out ‘backwards’.

- (10)
- a. Jan deinsde terug.
Jan shrank terug
‘John shrank back’
 - b. Jan reed achteruit.
Jan drove achteruit
‘John drove backwards’

Achteruit is the productive adverb, possible with an open ended range of verbs, while *terug* is restricted to a small number of verbs, often with special meanings (e.g. *terugslaan* lit. back hit ‘backfire’ of a gun). The verb root *deinzen* is a ‘cranberry morpheme’, it does not occur apart from one of the rearward adverbs *terug* and *achteruit*.

As a summary, what we have here for the expression of the rearward sense is two adverbs for Dutch (*achteruit* and *terug*), and for BP some verbal forms (such as *recuar*), and adverbials such as *de costas* and *para trás* – the first one of them more specialized for the rearward sense.

2.2 The retrograde sense

Another area where we see counter directionality is when a movement or process happens opposite to the usual direction. This could be seen as a generalization of the rearward sense, as we said earlier.

First BP. In this language, we find the expressions *de trás para frente*, *para trás*, *ao contrário* and also *re-* forms.

- (11)
- a. Você consegue contar de 0 a 100 de trás para frente/ao contrário?
Can you count from 0 to 100 backwards (i.e., from back to front)/on the contrary?

- b. pedalar para trás / pedalar ao contrário
to backpedal (i.e., to pedal to the back) / to pedalon the contrary
- c. virar para trás / virar ao contrário/ reverter⁸
to turn back / to turn on the contrary / to reverse

The expression *de trás para frente*, which literally means ‘from back/behind to front/face’, implies some sort of pre-ordering and it indicates that this ordering is being followed backwards, such that the end is now the beginning. This is particularly clear in the example (11a) in which the natural endpoint (100) is now the beginning, and also when someone follows a recipe *de trás para frente*, beginning with what is supposed to be the final step.

BP also has the expression *ao contrário* (‘on the contrary’, ‘contrariwise’) which has a wider range of uses and it simply indicates that something is being performed in the opposite of the natural way; that’s why one can backpedal (*pedalar ao contrário*, i.e. pedal contrariwise). It’s possible also to find *para trás* for the expression of the retrograde sense, which confirms that the rearward and the retrograde senses are connected.

In Dutch we find here *achteruit* and *terug* again, but also a more complex expression like *van achternaarvoren* ‘from back to front’.

(12)

- a. Kun jij van honderd tot één terug tellen?
can you from hundred to one terug count
‘Can you count backwards from 100?’
- b. Een palindroom kan van achter naar voren gelezen worden
A palindrome can van achternaarvoren read be
‘A palindrome can be read backwards.’
- c. De klok gaat morgen achteruit

⁸ In this case, the re- form, *reverter*, is more formal, and not strictly compositional, since the verb *verter* means to pour (water/wine/liquid).

The clock goes tomorrow *achteruit*
 ‘The clock goes back tomorrow.’

We can conclude that a lot is still unclear about the precise conditions under which one expression or the other is chosen for the meaning that we call retrograde. Collocation and lexicalization might play a role here. *Terug* only seems to be possible with certain verbs (like *tellen* ‘count’), while *van achternaarvoren* and *achteruit* are more productive. The choice between *van achternaarvoren* and *achteruit* might be determined by additional features, such as the dimensionality and directionality of the underlying domain. A word is a one-dimensional object, in a sense, with a front and back; a clock has a more complex dimensionality, and although there is a clear directionality in the way the hands move (‘clockwise’), there are no front and back sides to it.

The specialized expression for the retrograde sense in BP is *de trás para frente*, alongside with expressions such as *ao contrário* and *para trás* which have a wider range of uses. For Dutch what we find are again the items *achteruit* and *terug*, and the more complex and specialized expression *van achternaarvoren*.

2.3 The returnative sense

The returnative sense involves a presupposition that the theme has been at an earlier position or has made an earlier movement; the theme is going to the position where it has been before or it follows a path that it has gone before in the opposite direction.

For the returnative sense, in BP we find the adverbial expression *de volta*, and the verbs *voltar* and *tornar*, and also constructions with the prefix *re-*, which are usually more lexically specialized.

(13)

- a. Os convidados voltaram / retornaram para casa.
 The guests went back/returned home.

- b. pôr de volta / recolocar
to put back / re-place (put something back in its original place)
- c. devolver / retornar / dar de volta
return (devolve) / return / give something back

In BP, the verb *voltar* and movement verbs prefixed with *re-*, such as *retornar*, are the common choice to express the returnative sense, which can also be expressed via constructions with the noun *volta*, in expressions such as *de volta*.

The form *voltar* is directly related to the Latin form **voltare*⁹, which basically means ‘to roll’, ‘to spin’, ‘to revolve’, and nowadays in BP its basic meaning involves something or someone going back to its source or initial position. There are also some options with the prefix *re-*: *recolocar* (which is transparent for re-put ‘put back’ or ‘put again (in the original place)’), and *re-tornar* (which is not transparent, since the verb *tornar* means ‘to turn’). As we saw with the other senses, usually the *re-*forms are more formal, probably because they are lexically specialized.

In Dutch we only find *terug* here (although older Dutch still had *weder* here or its contraction *weer*, the cognate of German *wieder*).

(14)

- a. De feestgangers liepen naar huis terug.
the party-goers walked to home terug
‘The party-goers walked back home.’
- b. Jan is terug.
Jan is terug
‘John is back.’
- c. Je moet het boek terug leggen
you must the book teruglay
‘You have to put the book back.’

⁹ The form **voltare* probably did not exist in Classic Latin, but must have appeared in Vulgar Latin originating from *voltum* which is the supine of the verb *volvere*, which means to roll, to revolve.

- d. Ik wil de auto terug geven
 I want the car terug give
 'I want to give back the car.'

In both languages, the options for the returnative sense seem to be restricted – *terug* for Dutch and constructions based on the verb *voltar* in BP. It is interesting to note that Dutch and BP have different etymological sources for the returnative sense. While the Dutch returnative expression derives from the word for the posterior body part (*rug* 'back'), the BP returnative expressions derive from roots describing a rotation (of the human body). This might be a more general difference between Germanic and Romance languages, witness the English word *back* and French *retour*. As we'll see in the next section, the returnative sense is closely connected to the responsive sense.

2.4 The responsive sense

This sense can be seen as a thematic extension of the returnative sense, as we saw in section 2.

Again, for BP what we find is *de volta* and some *re-* compounds:

(15)

- a. Ela escreveu de volta, dizendo que estava vindo.
 She wrote back, saying that she was coming.
- b. Ela respondeu / retornou [*more formal*], dizendo que estava vindo.
 She answered / returned, saying that she was coming.
- c. chutar de volta / devolver a bola
 to kick back / to return the ball
- d. responder
 to answer (back)

In Dutch we find *terug*:

(16)

- a. Zij schreef terug dat ze kwam.
she wrote terug that she came
'She wrote back to say that she was coming.'
- b. Hij schopte de bal terug.
he kicked the ball terug
'He kicked the ball back.'
- c. We moeten de buren terug vragen na onze visite.
We must the neighbours terug ask after our visit
'We must return the invitation of the neighbours after our visit.'

In each case *terug* triggers a presupposition that there was an earlier event in which the subject received a letter (16a), the ball (16b), or an invitation (16c) and that the sentence describes a response directed towards the agent/source of that earlier event.

Basically, what we see in both languages is that the verbs or adverbs that are used for the returnative sense can also receive a responsive interpretation. This might suggest that the responsive sense is a special case of the more general returnative sense, rather than a special historical development.

2.5 The restitutive sense

In the restitutive sense an earlier state is restored or an earlier process is reversed. Consider the following sentence in BP which expresses the restitutive sense:

- (17) João dormiu e acordou de novo /novamente/ mais uma vez /
outra vez às 2 a.m.
João slept and woke up again / one more time / another time
at 2 a.m.

In BP we find the expressions *de novo*, *novamente*, *outra vez*, and *mais uma vez* here, where similar expressions in English, German, Dutch are only used for the repetitive sense.

In standard Dutch mostly *weer* is used here, but *terug* is possible with certain verbs and in non-standard Belgian Dutch *terug* is used much more productively for the restitutive sense. In addition we find the prefix *her-* ‘re-’.

(18)

- a. Hij werd terug/weer wakker.
he became terug/weer awake
‘He woke up again (after having fallen asleep).’
- b. De stad moet terug/weer worden opgebouwd.
the town must terug/weerbe build-up
‘The town must be build up again.’
- c. Het deksel kan eenvoudig geopend en terug/weer gesloten worden.
the lid can simply opened and terug/weer closed be
‘The lid can be opened and closed again in a simply way.’
- d. De stad werd heroverd.
The town was her-captured
‘The town must be recaptured.’

Concluding, BP has a number of expressions to mark restitutive change: *de novo*, *novamente*, *outra vez*, *mais uma vez*. Dutch has three forms: *weer* and *her-* in standard Dutch, and *terug* in non-Belgian Dutch. None of the three Dutch forms are specific for the restitutive sense, but they are (*terug*) or were (*weer*) also used for the returnative sense and as we will see in the next section, the BP expressions that we discussed here are also used for the repetitive sense.

2.6 Repetitive sense

At the border of the counterdirectional domain we find the repetitive sense.

For BP, we find the exact same expressions as we saw in the last section, about the restitutive sense, namely *de novo*, *novamente*, *outra vez*, *mais uma vez*, and also some *re-* forms lexically specialized.

Não devemos nunca mais nos ver de novo / novamente /
outra vez.

We should never see each other again / another time.

As a first approximation, we can say that the difference between repetitive and restitutive sense in BP is not dependent on the adverbial chosen, but on the form of the verb. Consider again the verb *abrir* ('to open'), and the two sentences below:

(19) A porta abriu.

The door opened.

(20) A porta está aberta.

The door is opened

Sentence (20) means basically the same thing as sentence (19), but the difference is that (19) emphasizes the opening event and (20) the state of being open (*aberta* is the feminine past participle form of the verb *abrir*). Both sentences can be combined with *de novo/novamente* 'again', *outra vez* 'another time' and *mais uma vez* 'once more'/'one more time':

(19') A porta abriu de novo / outra vez / mais uma vez.

(20') A porta está aberta de novo / outra vez / mais uma vez.

Although both sentences are ambiguous between a restitutive and a repetitive sense, sentence (19') is interpreted more often with the repetitive sense, and sentence in (20') with the restitutive sense.

In standard Dutch we find *weer*, but in non-standard Belgian Dutch *terug* is possible too. In addition, we also find in standard Dutch the

possibility of using *opnieuw* ‘anew’ or *nogeenkeer* ‘yet another time (lit. turn)’, specifically for the repetitive sense, as well. The latter adverbs are always stressed while *weer* and *terug* can remain unstressed. This also affects the syntactic positions of these items, which we will not discuss here. Finally, the prefix *her-* also figures here.

(21)

- a. Het voorstel is terug/weer/opnieuw/nog een keer afgewezen.
the proposal is terug/weer/opnieuw/nog een keer rejected
‘The proposals has been rejected again.’
- b. Volgend jaar vindt het congres terug/weer/opnieuw/nog een keer in Gent plaats.
next year finds the congress terug/weer/opnieuw/nog een keer in Gent place
‘Next year the congress will take place in Ghent again.’
- c. Ik heb het boek herlezen.
I have the book her-read
‘I reread the book.’

In standard Dutch, *terug* is only possible in the repetitive sense with the verbs *bellen* ‘phone’ and *zien* ‘see’ (and so are *weer*, *opnieuw*, *nogeenkeer*):

(22)

- a. Wij zullen elkaar nooit terug zien.
we shall each-other never terugsee
‘We shall never see each other again.’
- b. Hij nam niet op dus ik zal hem terug bellen.
hetook not up so I will him terugcall
‘He did not answer, so I will call him again’

With the repetitive sense, the number of different terms used is relatively rich. We find five different forms in the Dutch language area and four different expressions in BP. The different terms might not be fully equivalent. In addition to differences in register or region, there might be differences in syntactic and prosodic behavior, and items might also have a collocational connection with particular verbs.

Conclusions

Some of our conclusions are shown in the table and figures below; first, a simple tabular comparison between Dutch and Brazilian Portuguese, and then a schematic depiction of the distribution of the expressions over the map of senses in both languages. In Table 1 we summarize the expressions that we have found for the six senses. Parentheses enclose items that are archaic or regional.

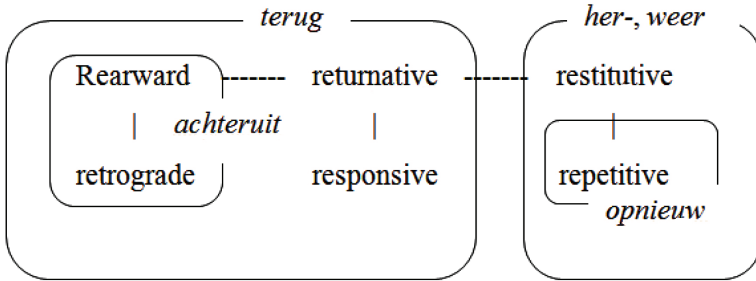
TABLE 1: Counterdirectional expressions in Brazilian Portuguese and Dutch

SENSE	BrPORT ¹⁰	DUTCH
REARWARD	re-, de costas, para trás	achteruit, terug
RETROGRADE	re-, de trás para frente, ao contrário, para trás	achteruit, terug
RETURNATIVE	re-, de volta, voltar, tornar	terug, (weer)
RESPONSIVE	re-, de volta, devolver, voltar	terug
RESTITUTIVE	re-, de novo, novamente, outra vez, mais uma vez	weer, her-, (terug)
REPETITIVE	re-, de novo, novamente, outra vez, mais uma vez	weer, her-, opnieuw, nog een keer, (terug)

¹⁰ For BP, forms with the prefix re- can be found for all the senses with different levels of compositionality and productivity, and are usually more formal due to their lexical specialization. For these reasons, we leave them aside in the next figures.

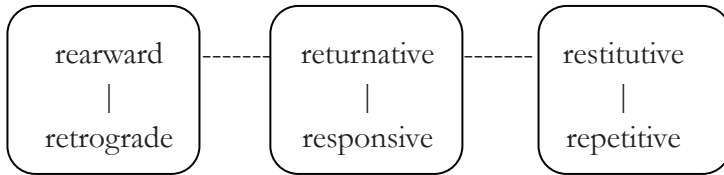
The (standard, modern) Dutch situation is represented in Figure 7. In Belgian Dutch *terug* covers the whole map and in more archaic Dutch, *weer* also covers the returnative sense.

FIGURE 7: Counterdirectionality in Dutch



The Brazilian Portuguese situation is found in Figure 8. We do not represent the distribution of the prefix *re-*, that covers the whole map.

FIGURE 8: Counterdirectionality in Brazilian Portuguese



de costas / de volta / voltar de novo / outra vez de trás para frente

As we can see, these two languages divide up the space of meanings in quite different ways. While BP has kept the senses we explored in this paper in three clearly separated categories (namely, (i) rearward and retrograde, (ii) returnative and responsive, and (iii) restitutive and repetitive), Dutch is a bit more complicated, because it shows overlapping categories. Nevertheless, each of the lexical regions in both languages is constrained by covering a contiguous set of senses, an important property for semantic maps (Haspelmath 2003).

Interestingly, Brazilian Portuguese and Dutch have partially followed different trajectories in how they express meanings in the domain of counterdirectionality. There is not one unique path of historical development leading from the most concrete ‘back’ notion to more abstract notions, but counterdirectional expressions are recruited from different semantic sources. In BP the idea of rotation is very important, as attested by the forms based on *voltar*, and this is the base for the returnative and responsive senses.¹¹ In Dutch, however, ‘back’ is the source for these senses, while the role of ‘back’ is more limited in BP. There are also strong similarities in the way ‘new’ (*novo*, *nieuw*) is used for the repetitive sense. An important finding is that BP has extended this use also to the restitutive sense.

It would be interesting to find out what types of expressions other languages recruit to express different senses in the counterdirectional domain, in addition to English, BP, and Dutch. There is some typological literature that shows how a verb for ‘return’ can develop into a returnative or repetitive marker in many languages (Lichtenberk 1991, Moysé-Faurie 2012). As far as we know, the reverse direction of inquiry has not been explored: start with the different senses within the counterdirectional domain, to find out how they are expressed in different languages (although Wälchli’s 2006 exploration of parallel corpora based on the gospel of Mark could be a good starting point here).

Although our theoretical basis in this paper is informal and the our treatment of the data restricted in certain ways, we believe to have shown that there is a coherent (sub)domain of senses that can be studied across languages with interesting results for typology and lexical semantics, and potentially also for grammaticalization theory and morphosyntax. More work is needed to understand the way counterdirectional elements are specialized for particular verbs or senses in ways that go beyond the six

¹¹ In Dutch, the notion of rotation plays a small role, in the etymology of the noun *keer* ‘turn’ in *nogeenkeer*, literally ‘yet another turn’ for the repetitive sense. We have not explored the historical trajectory of that expression.

senses identified here. Also, the differences between BP and Dutch need to be put in a broader historical and typological context, taking into account other Germanic and Romance languages.

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