CONSTRUCTIONAL PROFILE OF THE VERBAL PREFIX ZA-: A COMPARATIVE STUDY OF RUSSIAN AND POLISH

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ABSTRACT

In this paper we investigate the semantic and syntactic properties of the prefix ZA- in Russian and Polish against the background of the Locative Alternation. We provide lists of alternating verbs for Russian and Polish and examine their occurrences with the prefix ZA- as presented in the Russian National Corpus and the Polish National Corpus. While the literature on the prefix ZA- mainly offers semantic analysis, we look at the “constructional profile” of ZA-, i.e. the relative frequency distribution of the two locative constructions for each ZA-verb. Our data suggest that there are both similarities and differences in the syntactic behavior of the corresponding ZA-verbs in Russian and Polish, although in general there is a strong tendency for ZA- to be used in the Goal-Object construction. We provide evidence that both constructions are possible with verbs like ‘hang’ and ‘pour’, which, according to lexical approaches, should not alternate. Our study fortifies the idea that prefixes and constructions correlate and that the Locative Alternation is construction-driven. The data analyzed also indirectly supports the classification of alternating verbs as “manner”, “path” and “hybrid”.

[1] INTRODUCTION

In this paper we present empirical data related to several theoretical issues. The first issue involves the semantics of the prefix ZA- in two related languages, Russian and Polish, which are often considered to be similar in their use of verbal prefixes. We investigate the semantics of the prefix ZA- against the background of the second issue, namely the “Locative Alternation”, a current issue in research on argument structure. The Locative Alternation phenomenon manifests itself in the use of a verb in two different structures, such as John loaded the hay onto the truck (Theme-Object construction) vs. John loaded the truck with hay (Goal-Object construction). The question of what motivates such variation still puzzles linguists. Given the list of alternating verbs developed for other European languages, we provide lists of corresponding verbs for Russian and Polish and examine their occurrences with the prefix ZA-. While the literature on the prefix ZA- mainly of-
fers semantic analysis, we focus on both semantic and syntactic properties of za-
by looking at its “constructional profile” (Janda & Solovyev 2009), i.e. the relative
frequency distribution of the two locative constructions for each za-verb. The
data are extracted from the Russian National Corpus (www.ruscorpora.ru, hence-
forth RNC) and the Polish National Corpus (www.nkjp.pl, PNC) respectively. Our
data suggest that there are both similarities and differences in the constructional
behavior of the corresponding verbs with za- in Russian and Polish, although in
general there is a strong tendency for za- to be used in the Goal-Object construc-
tion. We provide evidence that both constructions are possible with verbs like
‘hang’ and ‘pour’, which, according to lexical approaches, should not alternate.
This way our study fortifies the idea that prefixes and constructions correlate
and that the Locative Alternation is “construction-driven” (Goldberg 1995, 2006).
Moreover, the data analyzed also support Lewandowski’s (2009) classification of
alternating verbs as “manner”, “path” and “hybrid”.

We start with a brief overview [2] of the main theoretical issues, namely the
semantics of the prefix za- in Russian and Polish [2.1] and the Locative Alterna-
tion [2.2], placing specific focus on the classification of alternating verbs [2.3].
Our objectives are to test the similarities and differences in the distribution of
alternating za-verbs in Polish and Russian, and in this way deduce information
about the semantics of za- in both languages. We present an empirical study of
our data extracted from the corpora [3.1] using the method of constructional pro-
fileing [3.2]. The analysis [4] addresses the relationship between the semantics of
the verb, the prefix and the Locative Alternation. Conclusions are offered in [5].


Russian and Polish are considered to be similar in the way their verbal prefix-
es function, especially when opposed to languages that do not have derivational
means for expressing aspectual relations. The similarities between the two lan-
guages are also emphasized by Dickey’s 2000; 2005 classification of aspectual pat-
terns. This section provides the reader with a general outline of the scholarly
literature on the semantics of the prefix za- in Slavic languages and the Locative
Alternation.

[2.1] The semantics of the prefix za-
The semantic properties of the prefix za- in Russian and Polish are much debated
among Slavic linguists. Researchers are concerned with how the prefix is used as
both a resultative prefix, referring to an accomplished action, and as an incep-
tive prefix, marking the beginning of an action or a state (Golovin 1964; Ovčinn-
ikova 1979; Sokolova 1982; Wróbel 1984; Janda 1985; Śmiech 1986; Dickey 2000;
Tabakowska 2003; Zaliznjak 2006), etc.). Another property of za- is its productivi-
ty and frequency in word formation (Pavlova 1988; Čertkova 1996; Łaziński 2008).
The majority of works dealing with the semantics of \textit{za-} in Russian follow either a lexicographical tradition (Golovin 1964; Švedova et al. 1980) or a structuralist approach (Ovčinnikova 1979; Sokolova 1982). Lexicographers describe the derivational types of verbs with the prefix \textit{za-}, some of which are related to each other (Golovin 1964), while structuralists view the semantics of \textit{za-} as a smaller set of unrelated senses, or distinctive features (Ovčinnikova 1979; Sokolova 1982). Similarly to the situation in Russian, the Polish prefix \textit{za-} has traditionally been analyzed as a list of different senses, which can be characterized as either contributing to the verb some kind of Aktionsart information or deriving verbs with a new lexical meaning (Wróbel 1984; Śmiech 1986). The main senses of \textit{za-} in Russian and Polish most frequently distinguished in the literature on verbal prefixation are summarized in Table 1 on the following page.

As can be seen from the overview, the basic meanings of Russian and Polish \textit{za-} appear to be very similar. Additionally, with some predicates \textit{za-} has been considered a pure marker of perfectivity, where the only difference between the unprefixed verb and its prefixed counterpart with \textit{za-} (or Natural Perfective, as in Janda’s terminology) is that of imperfective vs. perfective. For Russian, this applies to the resultative use of \textit{za-} as in (6) and some examples of “covering” (3b) and “filling” (4b) (Ožegov & Švedova 2001). In Polish, this is the case of verbs like \textit{zaśpiewać ‘sing-PFV’} (14) where, according to (Kurzowa 1997, 17) \textit{za-} is devoid of semantic content.

The structuralist approach was significantly revised in a more recent work by Zaliznjak (2006), where the prefix \textit{za-} is characterized by a certain set of semantic features (or a “conceptual schema”), such as primary \textit{behind, in, edge, up, devia, far}, and derived \textit{cover, hide (from behind)} and \textit{become, begin, fix (from in)}, which in different combinations appear in verbs with \textit{za-} (Zaliznjak 2006, 311). The semantic type of the \textit{za-} verb is calculated on the basis of semantic features of the prefix, the properties of the unprefixed base verb, and the argument structure of the unprefixed verb. Importantly, Zaliznjak emphasizes the role of the argument structure in defining the semantic type of the \textit{za-} verb, although she does not discuss whether \textit{za-} affects the constructions in which the verb is used. In section [4], we illustrate that not only can \textit{za-} change the basic constructional properties of the unprefixed verb, but it can also provide conditions for alternation.

An alternative approach is presented by Janda (1985, 1986) for Russian and by Tabakowska (2003) for Polish, who describe different meanings of \textit{za-} in terms of a cognitive radial network. Janda points out that although a prefix appears to be semantically fractured, certain submeanings are related to each other and can be presented as a set of configurations (or spatial image-schemas). A configuration consists of a landmark and a trajector which moves in relation to it. Thus, the central configuration for \textit{za-} can be described as the trajector transgressing the
### Table 1: The main meanings of the prefix за- in Russian and Polish.

<table>
<thead>
<tr>
<th>Meanings</th>
<th>Russian</th>
<th>Polish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lexical meanings</td>
<td></td>
<td></td>
</tr>
<tr>
<td>moving behind something</td>
<td>(1) zabezhat’ (за угол) za-run (behind corner-ACC) ‘run around the corner’</td>
<td>(9) zajechać (за рóg) za-drive (behind corner-ACC) ‘drive around the corner’</td>
</tr>
<tr>
<td></td>
<td>(2) zajti (к другу) za-walk (to friend-DAT) ‘drop by a friend’s house’</td>
<td>(10) zajść (до колеги) za-walk (to friend-GEN) ‘drop by a friend’s house’</td>
</tr>
<tr>
<td></td>
<td>(3) a. zastrój’ za-build ‘build up an area with new blocks or flats’ b. zakrasit’ za-paint ‘cover with paint’</td>
<td>(11) a. zalesić za-forest ‘plant with trees’ b. zamalować za-paint ‘cover with paint’</td>
</tr>
<tr>
<td>covering</td>
<td>(4) a. zapolnit’ za-fill ‘fill’ b. zapolmirovan’ za-fill a tooth ‘fill a tooth’</td>
<td>(12) a. zapłynąć za-burn ‘begin burning’ b. zaskwitnąć za-blossom ‘begin blossoming’</td>
</tr>
<tr>
<td>filling</td>
<td>(5) zaxvatit’ za-seize ‘seize, take over, capture’</td>
<td>(13) zawojować za-wage war ‘conquer’</td>
</tr>
<tr>
<td>getting possession of something</td>
<td>(6) zaregistrirovat’ za-register ‘register’</td>
<td>(14) zaśpiewać za-sing ‘sing’</td>
</tr>
<tr>
<td>reaching natural endpoint</td>
<td></td>
<td></td>
</tr>
<tr>
<td>inceptive</td>
<td>(7) a. zapet’ za-sing ‘begin singing’ b. zaczęści za-blossom ‘begin blossoming’</td>
<td>(15) a. zapłonąć za-burn ‘begin burning’ b. zakwitnąć za-blossom ‘begin blossoming’</td>
</tr>
<tr>
<td>intensive</td>
<td>(8) a. zazwałit’ za-praise ‘overpraise, to lionize’ b. zagovorit’sja za-talk Refl ‘get excessively absorbed in talking’</td>
<td>(16) a. zaspać za-sleep ‘oversleep, sleep too long’ b. zagadać się za-talk Refl ‘get excessively absorbed in talking’</td>
</tr>
<tr>
<td>terminative</td>
<td>(17) a. zajechać (do wsi) za-go into village ‘go into (the village)’ b. b. zaszybować (do miasta) za-glide into town ‘glide into (the town)’</td>
<td></td>
</tr>
</tbody>
</table>
boundary of the landmark and passing into the area outside the landmark (Janda 1985, 29).

In terms of such interaction between the trajector and the landmark it is possible to account for various seemingly unrelated senses of za-. Tabakowska shows that the inceptive sense of za-, illustrated in (15), is a metaphorical extension of the central spatial sense, in which the landmark is conceptualized as an abstract boundary separating “non-action” from “action” (Tabakowska 2003, 168). The apparently paradoxical terminative sense is based, as Tabakowska demonstrates, on the same notion of “passable borderline” with the difference that this borderline is part of the landmark, expressed as part of the prepositional phrase. On the other hand, the covering meaning relies, according to Tabakowska’s analysis, on the so-called sense of curtain (cf. Weinsberg (1973)): the trajector covers the landmark, so that the latter is hidden behind the former and cannot be seen, accessed, etc. If the action of covering extends to the entire landmark, za- implies “filling”, as in (12).

Quite importantly, both in the traditional approaches (cf. (Golovin 1964; Ovčinnikova 1979; Śmiech 1986)), as well as (although to a lesser extent) in more recent accounts (Tabakowska 2003; Zaliznjak 2006), it is argued that different senses of a given prefix are verb-class specific, i.e. they are compatible with different semantic classes of verbs. Here, it will be shown that the different senses of za- are not only verb class-specific, but also construction-specific. In particular, it will be shown that each variant of the locative alternation is associated with a different meaning of za-. The next two sections provide the relevant information on the Locative Alternation and its relation to verbal roots.

[2.2] Different approaches to alternating verbs

The Locative Alternation is a phenomenon attested in many languages, where a given verb can occur in two alternative constructions (see (18), (19)), both of which deliver approximately the same information:

(18) John loaded the hay onto the truck. (Theme-Object construction)
(19) John loaded the truck with hay. (Goal-Object construction)

The terminology which is used to denote the two constructions is diverse. In this work, we follow Brinkmann (1997); Nichols (2008) and Sokolova et al. (forthcoming) in naming the constructions Theme-Object and Goal-Object as above. The hay item stands for the theme and the truck item for the goal, while “object” refers to the direct object, which in Russian and Polish is consistently coded with the Accusative case in both constructions.

The works on the Locative Alternation can be divided into three major groups, according to the approach they use: (1) SYNTACTIC/LEXICAL (Rappaport Hovav &
Levin 1988, 2005, 2008; Pinker 1989; Levin 1993; Brinkmann 1997; Dowty 2000) (2) FRAME (Fillmore 1968, 1977, 2008; Boas 2001, 2006) (3) CONSTRUCTIONAL (Goldberg 1995, 2006; Michaelis & Ruppenhofer 2001; Iwata 2005, 2008). Each approach in its own way addresses the question of what motivates the Locative Alternation. The syntactic/lexical approach focuses on the meaning of the verb, treating the syntactic options as secondary to the intrinsic properties of the verb (“content-oriented” or “container-oriented”) (Pinker 1989, 125–127). Within existing classifications of verbal roots, it is problematic to account for all the occurrences of the Locative Alternation, since some verbs which are classified as ‘non-alternating’ can alternate under certain circumstances (see Boas (2006) for some counterexamples). The frame approach takes the syntactic construction as the point of departure, showing how different constructions are related to each other within bigger frames. Words like load are split into separate lexical units, depending on the semantic frames they evoke. Yet, the focus on the frame makes it less evident why a single verb alternates between constructions (for more detail, see Sokolova et al. (forthcoming)).

According to the constructional approach, the Locative Alternation is an epiphenomenon of the compatibility between the verbal meaning and two independently existing constructions (Goldberg 2006, 40). Our data support Goldberg (1995, 2002, 2006) and Michaelis & Ruppenhofer (2001) in that the Locative Alternation is construction-driven with a reference to verbal semantics. In the next section we will discuss different ways to classify verbal roots with regard to the Locative Alternation.

[2.3] Different approaches to verbal roots

Manner vs. Result

It has been widely assumed that verbs from various lexical fields can be classified as lexicalizing manner (e.g. wipe, float) or result/path (e.g. clean, enter). Levin & Hovav (1991) postulate that manner and result/path are in complementary distribution: a verb can codify either one or the other meaning component, but not both at the same time. Even if some verbs refer to results brought about using a conventionally associated manner or, analogically, some manner verbs specify actions performed to bring about a conventionally associated result, only one of these semantic components is codified in the verbal root. The other can only be expressed outside the verb. For instance, although the action of “wiping” is usually used to clean a surface, the verb wipe only denotes a manner of motion (which can be characterized as “surface contact”), whereas the final state of the surface is codified in a separate linguistic unit, i.e. the adjectival phrase clean (20):

(20) Pat wiped the table clean.
On the other hand, Talmy (1985, 2000) shows that the manner/path dichotomy is relevant for characterizing crosslinguistic lexicalization patterns. He argues that languages can be categorized as either verb-framed, such as Romance or Turkish, or satellite-framed, such as Germanic and Slavic. Whereas the former lexicalize the path of motion in the verb and express the manner, if specified, in a secondary element (e.g. a prepositional phrase or a Gerund), the latter codify the manner of motion in the verb, with the Path being relegated to a secondary element, commonly a preposition or prefix, cf. (21) and (22).

(21) La botella entró en la cueva (flotando). [Spanish] the bottle entered in the cave floating ‘The bottle entered the cave (floating).’

(22) The bottle floated into the cave.

Manner and path distinction as a gradient phenomenon

Although it is an uncontroversial fact that there are prototypical manner or path/-result verbs, as Levin & Hovav (1991); Rappaport Hovav & Levin (1998) and Talmy (1985, 2000) convincingly demonstrate, it has been postulated that a strict dichotomy is empirically not justifiable. Lewandowski (2009) classifies verbs entering into the locative alternation in Polish and Spanish as “manner”, “path” and “hybrid”. Manner verbs, such as Polish chlapać, Spanish salpicar ‘splatter’ provide information about how the action denoted by the verb is performed (in this particular case, the liquid is distributed in a wide-spread fashion; cf. Pinker (1989). Path verbs, such as Polish wieszać, Spanish colgar ‘hang’, clearly imply displacement of the theme. In contrast, hybrid verbs lexicalize both manner of motion and path. For instance, Polish ładować, Spanish cargar ‘load’ implies that a large quantity of items is displaced, but since items are usually loaded into a container, this verb also evokes the trajectory “outside-inside”. Lewandowski (2009, forthcoming) shows that the distribution of the alternating verbs in one or the other pattern of the locative alternation is statistically different depending on the root type. Overall, manner verbs tend to appear more often in the Goal-Object construction, and path verbs in the Theme-Object construction, while the distribution of hybrid verbs is similar in both constructions.

In this paper, we follow Lewandowski’s classification of alternating verbs and provide evidence that the hybrid nature of verbal roots is also relevant for the grammatical profile of prefixes.

[3] Data and Methodology

Our study examines the constructional profiles of the alternating za-verbs in Russian and Polish as evidenced by data from the RNC and the PNC. We first describe how our data were extracted and coded and then present our methodology.
The list of alternating verbs for Russian and Polish

Following the classification of Lewandowski (2009), we compose a list of alternating verbs for Russian and Polish, which comprise three major groups: “manner”, “path” and “hybrid”. The lists of such verbs are given below:

Two groups of manner verbs:

a) Wide-spread or undirected distribution of a liquid

Russian: bryzgat’ ‘splatter’
Polish: bryzgać ‘splatter’

Russian: pryskat’ ‘spray’
Polish: pryskać ‘spray’

b) Contact of a mass against a surface

Russian: mazat’ ‘daub, smear’
Polish: mazać ‘daub’

"Manner" verbs do not codify path: you can smear something up, down, to the left, to the right, etc. Thus, path is underspecified in their verbal meaning and they are more likely to be used in the Goal-Object construction.

Path verbs:

Russian: klast’ ‘lay’
Polish: kłaść ‘lay’

Russian: vešat’ ‘hang’
Polish: wieszać ‘hang’

Russian: stavit’ ‘stand’
Polish: stawiać ‘stand’

"Path" verbs imply path, i.e. they denote movement of the theme from one place to another. The prediction will be that they favor the Theme-Object construction.

Hybrid verbs:

Russian: gruzit’ ‘load’
Polish: ładować ‘load’

Russian: pakovat’ ‘pack’
Polish: pakować ‘pack’

Russian: pixat’ ‘stuff’
Polish: pchać ‘stuff’

Russian: lit’ ‘pour’
Polish: lać ‘pour’

Russian: sypat’ ‘strew’
Polish: sypać ‘strew’

[1] The characterization of the manner component is taken from Pinker (1989), who claims that alternation does not extend to verbs of “pure manner of motion” such as pour, verbs of force exertion (push, drag, pull, tug, yank) or verbs of positioning (lay, place, position, put) since there is no way to predict on the basis of the verb meaning alone what the effect on the goal argument will be (Pinker 1989, 80).
“Hybrid” verbs are associated with a particular manner of displacing things, but at the same time all of them evoke a container, involving the directionality “outside-inside”, cf. Section [2.2]. These verbs can put the focus on both participants and this way have the potential to occur in both constructions.

When used with prefixes, the verbs listed above can behave in three different ways:

(a) Some verbs can alternate when unprefixed. For Russian, this is the case with *bryzgat’* ‘splatter’, *mazat’* ‘smear, daub’, *gruzit’* ‘load’, *pakovat’* ‘pack’, whereas for Polish it is the case of all the verbs, except *pchać* ‘stuff’ and the positional verbs *kłaść* ‘lay’, *wieszać* ‘hang’ and *stawiać* ‘stand’.

(b) Other verbs do not alternate without a prefix and can be used either in the Theme-Object or Goal-Object construction depending on the prefix. For instance, the Russian unprefixed verb *stavit’* ‘put, place’, as well as its Natural Perfective with *po-* (*postavit’*), are used in Theme-Object construction, while its perfectives with *za-* and *ob-* choose the Goal-Object construction (*zastavit’* ‘cover something with standing objects’; *obstavit* ‘furnish’). In Polish, we find a similar effect with the verbs *pchać* ‘stuff’, *kłaść* ‘lay’, *wieszać* ‘hang’ and *stawiać* ‘stand’, which appear in the Theme-Object construction without a prefix but favor the Goal-Object construction when used with a resultative prefix like *za-* or *ob-* (*zapchać* ‘stuff, choke’, *obłożyć* ‘cover by putting things on a surface’, *zawiesić* ‘cover by hanging things on a surface’, *zastawić* ‘cover by standing things on a surface, block access’).

(c) Finally, some Russian verbs do not alternate when unprefixed but can be used in both constructions with certain prefixes. This is the case of Russian *zalit’* ‘pour’, *zasypat’* ‘strew’, *zavešat’*/*zavesit’* ‘hang’, *založit’* ‘lay’ with the prefix *za-*.

**Examples considered in this study**

To the Russian and Polish verbs from the list above, we add the prefix *za-* and investigate how such prefixed versions of the base verbs are represented in the corpora. For the purpose of this study, we used the Modern subcorpus (2000-2009) of the RNC, which contains 53 million words, and the PNC, containing 350 million words. For both Russian and Polish, we extracted all occurrences of each *za-* verb from the corpora, excluding passive participles, and manually coded the examples as Theme-Object vs. Goal-Object.

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[3] We used the modern subcorpus of the RNC since it is most equivalent with the PNC, which includes only modern texts.

[4] The contexts with passive participles require a separate investigation since they present examples of the Locative Alternation where the focus on one of the participants is greater than in the contexts with non-passive forms. However, the general assumption is that the distribution of passive forms between the two constructions resembles the situation with non-passive forms, as far as the choice of the main construction, see Sokolova et al. (forthcoming).
The Theme-Object and Goal-Object constructions differ in which of the participants is marked as the direct object: the Theme (i.e. elements like *hay*), or the Goal (i.e. elements like *truck*). In both constructions in Russian and Polish the direct object is consistently coded with the Accusative case, while the second participant can be expressed via different forms. The Theme-Object construction encodes the Goal via a prepositional phrase with a noun in the Accusative case, as illustrated in (23) and (24). In the Goal-Object construction the second participant is coded by the Instrumental case without a preposition in (25) and (26):

**THE THEME-OBJECT CONSTRUCTION**

(23) **Voditel’** zagruzil paket v bagażnik [Russian]  
Driver-NOM loaded bag-ACC in trunk-ACC  
‘The driver loaded the bag into the trunk’

(24) **Smuga natychmiast polecił załadować zapasy jarzyn na łodzie** [Polish]  
Smuga at once ordered za-load provisions vegetables-GEN on boats-ACC  
‘Smuga ordered that the vegetables be loaded onto the boats immediately’

**THE GOAL-OBJECT CONSTRUCTION**

(25) **Tam krasnoarmejcy** zagruzili kuzov jaščikami [Ru]  
There Red-Army-soldiers-NOM za-loaded truck-bed-ACC boxes-INS  
‘There the Red Army soldiers loaded the truck bed with boxes’

(26) **Chciałem załadować armatę pociskiem (...) i dobić go.** [Polish]  
I wanted za-load tank-ACC projectile-INS (...) and finish him  
‘I wanted to load the tank with a projectile and kill him’

The Theme-Object construction focuses on the Theme and on the change of its location. For instance, (23) concentrates on what happens to the bag, i.e. the Theme. On the other hand, the Goal-Object construction marks the change of the state of the Goal, as in (25), which is about the truck bed and how it is loaded.

The two constructions of the Locative Alternation can be represented via full constructions where both participants (Theme and Goal) are overtly expressed, as well as via “reduced constructions”, where one of the participants is missing. Most cases with the omitted Theme or Goal argument are instances of ellipsis since the missing participant is perceived from the context. Example (27) below illustrates a Theme-Object construction with a missing Goal:
In our research we aggregate data from both the full constructions and the reduced constructions. The only examples extracted from our analysis are constructions which can be characterized as hybrid. This means that one of the components of the classical locative construction is expressed by a different form, as in (28) below:

(28) Italija, ešče vcera otkazavšajasja ukryt’ u sebja Italy-NOM only yesterday refuse-ACT NOM to hide by self-GEN prestupnikov ... segodnja rešila “zamazat’” v nравstvennom criminals-ACC ... today decided to daub in moral prestuplenii drugie strany Evropy. [Russian] crime-LOC other countries-ACC Europe-GEN ‘Italy, which only yesterday refused to give shelter to the criminals, today has decided to accuse other European countries of moral crime’

In (28), the first participant is marked by Accusative case, while the second element is in the Locative case. Thus, it is not obvious whether the first element stands for the Theme or the Goal.

[3.2] Methodology

The method used in this study is “constructional profiling”, i.e. “the frequency distribution of the constructions that a word appears in”, based on corpus data (Janda & Solovyev 2009, 367). This methodology is inspired by construction grammar, as it treats the construction as the relevant unit of linguistic analysis (Goldberg 1995, 2006) and implies that speakers are sensitive to the frequency of words in constructions (Goldberg 2006, 46, 62). On the one hand, the constructional profile is a more focused version of the behavioral profile, which involves a wide range of factors (collocational, morphosyntactic, syntactic, and semantic) to investigate synonymy (Divjak 2006; Divjak & Gries 2006). On the other hand, constructional profiling takes the word as the point of departure and in this sense is the inverse of the collostructional methodology, which starts with a construction and investigates what words can occur in it (Stefanowitsch & Gries 2003, 2005).

The constructional profiles of the alternating za-verbs in Russian and Polish presented in this study show in which sense the two languages can be treated as similar and in which way they differ.
[4] **Analysis**

First, we aim to investigate the similarities and the differences in the distribution of the alternating **za-** verbs in Russian and Polish. Second, by comparing the constructional profiles of the **za-** verbs, we analyze the semantics of **za-** in the two languages and the relation between the semantics of the verb, the prefix and the locative alternation.

The data frequencies, collected as described in section [3], are presented in Tables 2 and 3 on the facing page.

<table>
<thead>
<tr>
<th>Verb</th>
<th>Gloss</th>
<th>Theme-Object construction</th>
<th>Goal-Object construction</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>raw frequency</td>
<td>relative frequency</td>
<td>raw frequency</td>
</tr>
<tr>
<td>zapryskat'</td>
<td>‘spray’</td>
<td>0</td>
<td>0%</td>
<td>0</td>
</tr>
<tr>
<td>zabryzgat'</td>
<td>‘splatter’</td>
<td>0</td>
<td>0%</td>
<td>28</td>
</tr>
<tr>
<td>zamazat’</td>
<td>‘daub, smear’</td>
<td>0</td>
<td>0%</td>
<td>56</td>
</tr>
<tr>
<td>zagruzit’</td>
<td>‘load’</td>
<td>85</td>
<td>47.8%</td>
<td>93</td>
</tr>
<tr>
<td>zapakovat’</td>
<td>‘pack’</td>
<td>13</td>
<td>100%</td>
<td>0</td>
</tr>
<tr>
<td>zapixat’</td>
<td>‘stuff’</td>
<td>63</td>
<td>100%</td>
<td>0</td>
</tr>
<tr>
<td>zasybat’</td>
<td>‘strew’</td>
<td>36</td>
<td>17%</td>
<td>176</td>
</tr>
<tr>
<td>zalit’</td>
<td>‘pour’</td>
<td>59</td>
<td>11.8%</td>
<td>440</td>
</tr>
<tr>
<td>zavešat’/zavesit’</td>
<td>‘hang’</td>
<td>2</td>
<td>8.7%</td>
<td>21</td>
</tr>
<tr>
<td>zastavit’</td>
<td>‘stand’</td>
<td>0</td>
<td>0%</td>
<td>5</td>
</tr>
<tr>
<td>založit’</td>
<td>‘lay’</td>
<td>238</td>
<td>96.7%</td>
<td>8</td>
</tr>
</tbody>
</table>

**Table 2:** Locative Alternation among non-passive forms of Russian alternating verbs.

Given the relative frequencies in Tables 2 and 3 on the facing page, we end up with the following constructional profiles of the alternating **za-** verbs for Russian and Polish (see Figures 1 and 2 on page 378).

As can be seen from Figures 1 and 2, the verbs that favor the Goal-Object construction in both Russian and Polish are: ‘splatter’ (Russian *zabryzgat’*), ‘smear’ and ‘daub’ (Russian *zamazat’* and Polish *zasmarować, zamazać*), ‘strew’ (Russian *zasybat’, Polish *zasypać*), ‘pour’ (Russian *zalit’, Polish *zalać*) and ‘stand’ (Russian *zastavit’, Polish *zastawić*). On the other hand, the verbs for ‘pack’ (Russian *zapakovat’, Polish *zapakować*) and ‘lay’ (Russian *založit’, Polish *zalożyć*) show a preference

[5] Since only one example of *zabryzgać* ‘splatter’ was attested in the corpus we will treat it as 0.
for the Theme-Object construction. The differences between the two languages concern the verbs for ‘load’ (a preference towards the Theme-Object construction in Polish and an even distribution between the two constructions in Russian), the verbs for ‘stuff’ (Theme-Object construction in Russian and the Goal-Object construction in Polish), and the verbs for ‘hang’ (the Russian verb favors the Goal-Object construction, while the Polish one is only attested in the Theme-Object construction). It can also be seen that Russian and Polish are characterized by a different number of verbs that show a variation between the two constructions.

The similarities and differences between the alternating za-verbs in Russian and Polish are discussed in the subsections below.

[4.1] **General tendencies in the alternating za-verbs in Russian and Polish**

The analysis of the alternating verbs in Russian and Polish shows that the semantics of the prefix is construction-specific. When the Goal-object construction is “headed” by za-, the prefix bears the meaning of “covering” (cf. Russian zabryżgać, zamazać, zastawić; Polish zasmarować, zamazać, zasypać, zalać, zasypać, zalać, zastawić) or “filling” (as in Russian zagruzit’; Polish zapchać). On the other hand, when za- appears in the Theme-object construction, it has the meaning of reaching a natural endpoint (Russian zagruzit’, zapakovat’; Polish załadować, zapakować) or “placing” (Russian zapixat’, založit’; Polish założyć).

<table>
<thead>
<tr>
<th>Verb</th>
<th>Gloss</th>
<th>Theme-Object construction</th>
<th>Goal-Object construction</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>raw frequency</td>
<td>relative frequency</td>
<td>raw frequency</td>
<td>relative frequency</td>
</tr>
<tr>
<td>zapryskać</td>
<td>'spray'</td>
<td>0</td>
<td>0%</td>
<td>0</td>
</tr>
<tr>
<td>zabryżgać</td>
<td>'splatter'</td>
<td>0</td>
<td>0%</td>
<td>1</td>
</tr>
<tr>
<td>zasmarować</td>
<td>'smear'</td>
<td>0</td>
<td>0%</td>
<td>21</td>
</tr>
<tr>
<td>zamazać</td>
<td>'daub'</td>
<td>0</td>
<td>0%</td>
<td>33</td>
</tr>
<tr>
<td>zaladować</td>
<td>'load'</td>
<td>471</td>
<td>81.8%</td>
<td>105</td>
</tr>
<tr>
<td>zapakować</td>
<td>'pack'</td>
<td>507</td>
<td>94.9%</td>
<td>27</td>
</tr>
<tr>
<td>zapchać</td>
<td>'stuff'</td>
<td>0</td>
<td>0%</td>
<td>69</td>
</tr>
<tr>
<td>zasypać</td>
<td>'strew'</td>
<td>1</td>
<td>0.2%</td>
<td>572</td>
</tr>
<tr>
<td>zalać</td>
<td>'pour'</td>
<td>2</td>
<td>0.5%</td>
<td>383</td>
</tr>
<tr>
<td>zawiesić</td>
<td>'hang'</td>
<td>578</td>
<td>99.3%</td>
<td>4</td>
</tr>
<tr>
<td>zastawić</td>
<td>'stand'</td>
<td>0</td>
<td>0%</td>
<td>241</td>
</tr>
<tr>
<td>założyć</td>
<td>'lay'</td>
<td>789</td>
<td>100%</td>
<td>0</td>
</tr>
</tbody>
</table>

**Table 3:** Locative Alternation among non-passive forms of Polish alternating verbs.
As can be seen from Figures 1 and 2 above, in both Russian and Polish, “manner” verbs are clearly associated with the “change of state” meaning. This could be due to the general tendency for verbs with a strong manner component to avoid constructions describing displacement than “hybrid” or “path” verbs. In other words, the manner component “clashes” to a certain degree with the displacement or “change of location” meaning. For instance, in Polish, “manner” verbs, unlike “hybrid” verbs, systematically reject spatial prefixes like w- ‘in’, do- ‘into’ (Lewandowski forthcoming):


On the other hand, “path” and “hybrid” verbs differ from “manner” verbs in that most of them appear in both constructions (Russian zagruzit’, zasypat’, zalit’, zavešat’/zavesit’, založit’; Polish załadować, zapakować and very sporadically zawiesić, zasypać, zalać, where the attested frequency for one of the constructions is below 1%). The proportion between the Theme-Object and the Goal-Object constructions for “hybrid” verbs depends on the idiosyncratic properties of individual verbs, first of all on the degree to which the Theme is specified. For instance, zalit’ ‘pour’ indicates the Theme as a liquid, so the focus is usually placed on the Goal, which is modified. The verb zasypat’ ‘strew’ presents the Theme as a dry substance (small objects that are perceived as a mass) with a somewhat higher frequency of the Theme-Object construction than in the case of zalit’. The Theme of the verb gruzit’ ‘load’ is a single heavy object or a number of separate objects (which are not presented as a mass), which gives more opportunities for profiling either the Theme or the Goal. Thus, the closer the Theme of the verb is to a count noun, the more even the distribution between the constructions appears to be, since the focus can be placed on both participants. However, this hypothesis requires testing on a larger amount of data.

Another common effect for both Russian and Polish is that za- seems to be more frequent in the Goal-Object construction, which indicates that there is a certain correlation between the construction and the prefix. In Russian, upprefixed “manner” verbs usually occur in the Goal-Object construction, while “hybrid” and “path” verbs favor the Theme-Object construction. In addition, the “manner” verbs bryzgat’ ‘splatter’, mazat’ ‘smear, daub’ and the “hybrid” verbs gruzit’ ‘load’, pakovat’ ‘pack’ can alternate between the two constructions, still showing a stronger preference towards either the Goal-Object construction (in the case of “manner” verbs) or the Theme-Object construction (in the case of “hybrid” verbs). The choice for the Theme-Object or Goal-Object construction within Polish unprefixed “manner” and “hybrid” verbs is similar to Russian, with the only difference that in Polish all unprefixed “manner” and “hybrid” verbs, except for pchać ‘stuff’, potentially alternate (the verb pchać ‘stuff’ and the positional verbs are categorically excluded from the Goal-Object frame when unprefixed). The correlation of the prefix za- with the Goal-Object construction reveals itself in two ways: first, za- eliminates alternation within the “manner” verbs, strengthening the status of the Goal-Object construction, second, it shifts many “hybrid” and “path” verbs from the Theme-Object construction to the Goal-Object construc-
tion (cf. the verbs zagruzit’, zasypat’, zalit’, zavezat’/zavesit’, zastavit’ in Figure 1 on page 378 and zapchać, zasyapać, zalać and zastawić in Figure 2 on page 378).

The use of each za-verb is generally skewed in favor of one of the locative constructions. The only exception is the Russian verb zagruzit’ ‘load’, where the distribution between the Theme-Object and the Goal-Object constructions is almost even (Theme-Object: 47.8%; Goal-Object: 52.2%). A more elaborate analysis of the examples indicates that this could be due to the number of additional metaphorical uses that this verb has in the Goal-Object construction. As shown in Sokolova (2010), of the three prefixed counterparts to the verb gruzit’ ‘load’ (with prefixes za-, na- and po-), zagruzit’ is more often used metaphorically: zagruzit’ is characterized by 39% of metaphorical uses, while nagruzit’ and pogruzit’ have 25% and 11% respectively. The major metaphorical extensions of zagruzit’ involve a “person” (Goal), who serves as the metaphorical container, and “information” or “work” (Theme), which represent metaphorical contents, as shown in (30)-(31):

(30) Ah, vam interesny podrobnosti iz žizni
   Oh, you-DAT are-interesting particulars-NOM from life-GEN
   zvezd?  Radi boga, Andrej Maksimov “zagruzit”
   pop-stars-GEN? For god, Andrej Maksimov-NOM za-load-FUT
   vas ètoj informaciej. [Russian]
   you-ACC this-INS information-INS
   ‘Oh, you are interested in the details of the life of our pop stars? No problem, Andrej Maksimov will provide you with this information.’

(31) Zasedanie Gossoveta po kul’ture zagruzit rabotoj
   Meeting-NOM State-Council-GEN on culture-DAT za-load-FUT work-INS
   sotrudnikov Minsterstva kul’tury na bližajšie neskol’ko
   members-ACC Ministry-GEN Culture-GEN for nearest-ACC few-ACC
   let. [Russian]
   years-GEN
   ‘The agenda of the State Council on Culture will keep the members of the Ministry of culture busy for several years.’

It is remarkable that in non-metaphorical uses, zagruzit’ favors the Theme-Object construction (68.7%), resembling the situation in Polish (see Table 4 on the facing page). However, in metaphorical contexts, it is skewed towards the Goal-Object construction (70.5%).

As can bee seen from Figure 3 on page 382, zagruzit’ ‘load’ is the only Russian alternating verb where metaphorical contexts have a crucial affect on the general distribution between the Theme-Object and the Goal-Object constructions because the two contexts behave so differently. It is also the verb that has the
TABLE 4: The distribution of the two locative constructions among metaphorical and non-metaphorical contexts within Russian alternating verbs that are attested in both constructions.

<table>
<thead>
<tr>
<th>Verb</th>
<th>Extension</th>
<th>Theme-Object construction</th>
<th>Goal-Object construction</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>raw frequency</td>
<td>relative frequency</td>
<td>raw frequency</td>
</tr>
<tr>
<td>zagruzit' 'load'</td>
<td>non-metaphorical</td>
<td>57</td>
<td>68.7%</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td>metaphorical</td>
<td>28</td>
<td>29.5%</td>
<td>67</td>
</tr>
<tr>
<td>zasypat' 'strew'</td>
<td>non-metaphorical</td>
<td>35</td>
<td>20.5%</td>
<td>136</td>
</tr>
<tr>
<td></td>
<td>metaphorical</td>
<td>1</td>
<td>2.4%</td>
<td>40</td>
</tr>
<tr>
<td>zalit' 'pour'</td>
<td>non-metaphorical</td>
<td>50</td>
<td>11.6%</td>
<td>381</td>
</tr>
<tr>
<td></td>
<td>metaphorical</td>
<td>9</td>
<td>13.2%</td>
<td>59</td>
</tr>
<tr>
<td>zavešat'/zavesit' 'hang'</td>
<td>non-metaphorical</td>
<td>2</td>
<td>10%</td>
<td>19</td>
</tr>
<tr>
<td></td>
<td>metaphorical</td>
<td>0</td>
<td>0%</td>
<td>2</td>
</tr>
<tr>
<td>založit' 'lay'</td>
<td>non-metaphorical</td>
<td>115</td>
<td>94%</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>metaphorical</td>
<td>123</td>
<td>99.2%</td>
<td>1</td>
</tr>
</tbody>
</table>

highest percentage of metaphorical contexts: for zagruzit’, metaphorical extensions constitute 53.4% of all the contexts; for založit’ this number amounts to 50%; zasypat’ has 19.3% of metaphorical uses, while zalit’ and zavesit’ show only 13.6% and 8.7%. The percentage of the metaphorical contexts for the verb založit’ is also high since most of its Theme-Object usages are represented by frequently used collocations like založit’ fundament/ osnovu ‘lay the foundation’ (36.6% of all uses). Cf. example (32):

(32) Vmeste oni založili osnovu novogo stila
Together they-NOM laid foundation-ACC new-MASC.GEN style-GEN nacional’noj muzyki. [Russian]
national-FEM.GEN music-GEN
‘Together, they established a new style for national music.’

Thus, the overall tendency is that alternating verbs prefer one construction over the other, given that there are no other factors interfering, like metaphor.

[4.2] Differences between the alternating za-verbs in Russian and Polish
As shown in the previous subsection, the Russian and Polish alternating verbs have a lot in common. Yet, our analysis also points to some differences between the two languages. Firstly, in Russian, more verbs with the prefix za- are attested
in both constructions. Leaving aside the Russian verb zavešat’/zavesit’ ‘hang’ for which we have little data, we are still left with three verbs (zagruzit’ ‘load’, zasypat’ ‘strew’, zalit’ ‘pour’), where the frequency of the secondary construction is above 10%. For Polish this is the case only for zalađować ‘load’. The Polish za- therefore shows a stronger preference for one of the constructions, depending on the semantics of the verbal root, while in Russian there is a whole group of za-verbs that can alternate. The arrangement of the group of verbs that show constructional variation can be summarized as follows: the Russian and Polish verbs for ‘load’ show the highest variation between the two constructions; other potentially alternating verbs are ‘strew’, ‘pour’ and ‘hang’, where a relatively high variation is attested only for Russian. Finally, the Polish data indicate variation for ‘pack’ whereas the Russian data has variation for ‘lay’.

The Goal-Object construction takes only 5% of the total uses of ‘pack’ in Polish, as in examples like (33):

(33) Zapakujemy plecak piwem i będziemy się integrować z gośćmi.
    ‘We will pack the bag with beer and then we will mingle with the guests.’

In the case of Russian ‘pack’, we have too little data to claim that this verb can’t alternate at all, although our examples can be perceived as indirect evidence that the dominant construction here is the Theme-Object construction, resembling
the situation in Polish. Internet pages contain examples like (34), which indicate that the behavior of the verbs for ‘pack’ in Russian and Polish is quite similar:

(34) Est’ dva čemodana: odin ja xoču
    Be two-NOM suitcases-GEN: one-ACC I-NOM want-PRES.1SG
    zapakovat’ ličnymi veščami, drugoj podarkami
    za-pack-INF personal-INS things-INS, another-ACC presents-INS
    ‘I have two suitcases: one of then I want to pack with my personal things and the other one with presents’
    (chemodan.eu/news/2008/01/4373.html?Page=5)

The Russian example (34) profiles the Goal (suitcases) as the direct object and the Theme (personal things) as the noun phrase in the Instrumental case and is thus parallel to the Polish example (33), where the bag (Goal in the Accusative case) is packed with beer (Theme in the Instrumental case).

It is remarkable that the corresponding za-verbs in Russian and Polish usually prefer the same construction. However, our data record two opposing cases: the verbs for ‘hang’, where the Russian zavesit’ favors the Goal-Object construction and the Polish zawiesić chooses the Theme-Object construction, and the verbs for ‘stuff’, with the Russian zapixat’ attested only in the Theme-Object construction and the Polish zapchać attested only in the Goal-Object construction.

A mismatch between Russian and Polish in the case of ‘hang’ can be accounted for by tracing the differences in the prototype of za- in the two languages. It appears that the Russian za- is strongly associated with a container. In particular, this idea is supported by the distribution of za- with spatial prefixes na ‘on’ and v ‘in’. For instance, the unprefixed verb gruzit’ ‘load’ does not set any restrictions on the type of the Goal (i.e. information whether the Goal is a container or a surface) and shows an even distribution between the container-oriented preposition v and the surface-oriented preposition na that introduce the Goal in the Accusative case. However, its Natural Perfective with za- strongly prefers the container-oriented V (88% vs. 12% with na), while na-perfective favors the surface-oriented preposition na, see (Sokolova et al. forthcoming). It is plausible that when added to the Russian alternating verbs, za- as a rule shifts the focus from the Theme to the Goal. Yet, a za-verb can be used with the Theme-Object construction if the Goal is a container. For instance, in (35)-(36), the Russian verb zasypat’ ‘strew’ has the same Theme (the gravel). When the Goal is a surface, as in (35), only the Goal-Object construction is used.

(35) Kogda vse rastenija budut vysaženy, zasyp’tе ploščadku
    When all-NOM pants-NOM be-FUT planted, za-strew-IMP ground-ACC
    graviem
    gravel-INS
'Once the plants are planted out, strew the ground with gravel.'

Cf.

(35') ??Zasyp'te gravij na ploščadku
za-strew-IMP gravel-ACC on ground-ACC
‘Strew the gravel on the ground.’

At the same time, the Theme-Object construction is possible with the same Theme (the gravel) if the Goal represents a container, which is usually headed by the preposition v:

(36) Zasyp'te gravij v akvarium
za-strew-IMP gravel-ACC into aquarium-ACC
‘Strew the gravel into the aquarium.’
(minibiohome.com/manual_aquasaurus.php)

Even when the Goal of the verb zasypat’ is marked by the preposition na, it still refers to a container:

(37) Na dno tranšei zasyp'te gravij
On bottom-ACC ditch-GEN za-strew-IMP gravel-ACC
‘Strew the bottom of the ditch with gravel.’
(www.mukhin.ru/home/decoland/30.html)

However, if the Goal of a verb is almost never a container, a shift in the construction occurs, as in the case of zamazat’ ‘smear’, which is attested only in the Goal-Object construction. The verb zamazat’ gains an additional meaning of “covering” and “hiding” the Goal, making it inaccessible (38):

(38) ... a kraskoj zamaż’tе nadpisi na stenax
... and paint-INS za-smear-IMP inscriptions-ACC on walls-LOC
pod’ezdov
entrances-GEN
‘...and use the paint to cover up the messages on the walls in the entrances.’

We might assume that the Russian za-, which is associated with “crossing a boundary”, presupposes that the trajector is always inside or behind the landmark. As a result, Russian sets a restriction on the use of zavesit’ ‘hang’ in the Theme-Object construction since the Goal of ‘hang’ is always a surface. It seems that Polish doesn’t have such restrictions, thus allowing for the use of zawiesić ‘hang’ in the Theme-Object construction.
The second reverse case, attested in the verbs for 'stuff', occurs due to a significant shift in meaning of the Polish verb *zapchać*. Unprefixed *pchać* usually means 'push', referring to the situations of 'pushing on a door', 'pushing a baby carriage' or 'pushing a person', which use the "change of location" pattern. When prefixed with *za-*, it gains the meaning 'stuff' or 'choke', placing the focus on the Goal and changing the construction:

(39) Rozpostarłem gazetę i (...) zapchałem usta obeschniętym plackiem.  
    'I opened the newspaper and (...) I stuffed my mouth with a dry biscuit.'

On the other hand, the Russian verbs *pixat’* and *zapixat’,* despite certain functional differences, both share the meaning ‘stuff’, as can be seen in (40)-(41), and can be used in the same, Theme-Object, construction:

(40) Ded uspeval prosledit’, skol’ko šokoladnyx konfet ... zapixali sebe v rot deti.  
    Grandfather was able to keep track of how many chocolates the children stuffed into their mouths.

(41) ... ne vse pixajut sebe v rot po dva buterbroda srazu  
    'Not everybody stuffs his mouth with two sandwiches at once’

In addition to a comparative analysis of the way the alternating *za-*verbs function in Russian and Polish, our data also make a crucial contribution to the general discussion on the Locative Alternation with regard to verbal roots. The properties demonstrated by the Russian *za-*verbs like *zavešat’* ‘hang’, as well as the selection of the Goal-Object construction by the Russian verbs *zalit’* ‘pour’, *zastavit’* ‘put in a standing position’ and the corresponding Polish verbs *zalać*, *zastawić*, present counterexamples to Pinker’s claim that verbs like ‘hang’, ‘pour’ and ‘put’ should not appear in the change of state pattern. Thus, the occurrence of the Locative Alternation with such verbs cannot be described in terms of verbal semantics only but should be rather treated as a complex interaction of the verbal root, the construction and the prefix, which is closely related to the construction.
[5] CONCLUSIONS

The za-verbs in Russian and Polish show both similarities and differences in their syntactic behavior. On the one hand, the semantics of the prefix za- in both languages is construction-specific: when used with the Goal-object construction, the prefix refers to “covering” or “filling”, whereas in the Theme-object construction, it bears the meaning of “reaching a natural endpoint” or “placing”. In both Russian and Polish, the za-verbs prefer the Goal-Object construction, supporting the idea that prefixes correlate with constructions. In particular, in both Russian and Polish, za- eliminates alternation within the “manner” verbs, making the Goal-Object construction more prominent, and shifts many “hybrid” and “path” verbs from the Theme-Object construction to the Goal-Object construction. The use of each za-verb is generally skewed in favor of one of the locative constructions. The one exception is the Russian verb zagrúzit’ ‘load’, where an almost even distribution between the Theme-Object and the Goal-Object constructions appears to be the result of additional metaphorical uses in the Goal-Object construction.

On the other hand, some Russian and Polish alternating za-verbs behave differently. Firstly, more Russian za-verbs alternate between the two constructions: cf. Russian zagruzit’, zasypat’, zalit’, zavešat’/zavesit’, založit’ vs. Polish zalaładować, zapakować. Another difference is that although the corresponding za-verbs in Russian and Polish usually prefer the same construction, two opposing cases exist: the verbs for ‘hang’ (where Russian zavesit’ favors the Goal-Object construction and the Polish zawiesić the Theme-Object construction), and the verbs for ‘stuff’ (the Russian zapixat’ is attested only in the Theme-Object construction and the Polish zapchać in the Goal-Object construction). A mismatch between Russian and Polish in the case of ‘hang’ is motivated by the fact that the Russian za- is strongly associated with a container. As a result, Russian sets a restriction on the use of zavesit’ ‘hang’ in the Theme-Object construction since the Goal of ‘hang’ is always a surface. The second case can be accounted for via a significant shift in meaning, which occurs in the Polish verb pchać ‘push’. When prefixed with za-, it gains the meaning ‘stuff’ or ‘choke’, placing the focus on the Goal and changing the construction.

Our analysis also contributes to the study of the Locative Alternation. First, our findings indirectly support the division of the alternating verbs into “manner”, “path” and “hybrid”. In both Russian and Polish, “manner” verbs are clearly associated with the “change of state” meaning and are not attested in the Theme-Object construction. On the other hand, “path” and “hybrid” verbs differ from “manner” verbs in that some of them appear in both locative constructions. The proportion of the Theme-Object and Goal-Object constructions for “hybrid” verbs depends on the idiosyncratic properties of individual verbs, first of all on the degree to which the Theme is specified: the closer the Theme of the verb is to a
count noun, the more even the distribution between the constructions appears to be.

Moreover, our case study suggests that the prefix \textit{za}- is the prefix that allows verbs typically associated with the change of location pattern to appear in the change of state construction (cf. the Russian verb \textit{zaveśat’} ‘hang’). This goes against Pinker (1989), who claims that verbs like ‘hang’ or ‘pour’ should not appear in the change of state pattern. As our data from Russian and Polish show, such a shift is possible when the corresponding verbs are prefixed with \textit{za}-.

Further elaboration of this topic requires a thorough comparison of the data described in this article with the corresponding unprefixed alternating verbs. Some other issues for future investigation are metaphorical extensions of the Theme-Object and the Goal-Object constructions in both languages and hybrid constructions.

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