Compositional Disambiguation of Biaspectuality in Languages with Verbal Aspect: On Russian and Bulgarian Data

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Abstract

The contrast between perfectivity/imperfectivity is realized across languages in two different ways: verbal aspect (henceforward VA), as in the Slavic languages among others; compositional aspect (henceforward CA), as in the Germanic languages among others. VA is directly encoded by the verb. In CA, the articles (definite/indefinite/zero) mark temporal boundedness/non-boundedness on situation-participants NPs which is then mapped onto the verb. Though peripherally, CA is also realized in languages with VA systems such as Bulgarian and Russian. Russian lacks articles; Bulgarian has a definite article only. The mapping of temporal features between referents of nominals and verbs is demonstrated. The signaling of perfectivity in CA terms prototypically takes place with biaspectual verbs or when imperfectivity is so weak that it fails to stand its ground in specific conditions – the verb can then be labeled biaspectual instead of imperfective. Biaspectuality in Bulgarian is often disambiguated through the contrast between definite vs zero article. Biaspectuality disambiguation in Russian is more complex. Nominals again play a role, despite the absence of articles, through their lexical meanings – capable of influencing aspectual values, and the impact of situation-participant NPs again crucially determines whether a biaspectral verb signals perfectivity or imperfectivity.

Keywords: compositional and verbal aspect, biaspectuality, temporal boundedness/non-boundedness of nominal referents, mapping of boundedness/non-boundedness
Theoretical Background: Verbal vs Compositional Aspect

Aspect, the contrast between perfectivity-imperfectivity, is a universal phenomenon found in all natural languages in two disguises: CA and VA (Kabakčiev 1984; 2000; 2019; 2021). VA, as represented, e.g., in the Slavic languages, Latin and Greek, has been known for a long time, since the birth of modern linguistics. CA was discovered relatively recently by Verkuyl (1972). In Verkuyl’s model, CA is invariably a sentence-level phenomenon, in which perfectivity and imperfectivity are explicated, while VA is directly expressed by the verb as a lexical or syntactic entity. On the difference between explication and expression of aspect, see Kabakčiev (2019: 203ff). Verkuyl (1972) revealed CA on data from Dutch and English but gradually English became the major language to exemplify CA.

English sentences explicate perfectivity when they conform to Verkuyl’s perfective schema, see (1a) below with verb arguments that are bounded by an article (a/the) or some other determiner/quantifier, personal/possessive pronouns, etc. Apart from that, the verb must have a telic potential. Sentences obtained from (1a) with a singular or plural subject/object and accompanied by an article (definite/indefinite), other determiners/quantifiers, personal/possessive pronouns, etc., are perfective and represent Verkuyl’s perfective schema. Such verb arguments were described by Verkuyl (1972; 1993) as designating “specified quantity of X”. Verkuyl’s term “specified quantity of X” was later replaced by “bounded” in the literature – henceforward “bounded” will be used here. All the other sentences below (1b,c,d,e) belong to Verkuyl’s imperfective schema, demonstrating so-called leaks vis-à-vis the relevant sentence in the perfective schema and encoding Verkuyl’s “non-specified quantity of X” in NPs (on Verkuylian leaks, see Kabakčiev 2019: 203-204). The term “non-specified quantity of X” was later replaced in the literature with non-bounded, henceforward “non-bounded” will be used. Note that in Verkuyl’s imperfective schema a sentence must contain at least one bare plural, see (1b, d, e); (1e) has two. The other requirement for the explication of perfectivity, for the verb to have a telic potential, is also met: visited in (1a) has it, unlike hated in (1c), which does not. Therefore, (1c) is imperfective (Verkuyl 1972; 1993; Kabakčiev 2000; 2019: 203-204):

(1) a. The (a/this) patient/the (these/our/two) patients/they visited [perfective] this hospital
b. The (a/this) patient/the (these/our/two) patients/they visited [imperfective] hospitals
c. The (a/this) patient/the (these/our/two) patients/they hated [imperfective] this hospital
d. Patients visited [imperfective] this hospital
e. Patients visited [imperfective] hospitals

1Kabakčiev’s (1984; 2000; 2019) model of CA partly follows Verkuyl’s (1972; 1993), as described in Kabakčiev (2019).
Furthermore, as can be seen in (1), it does not matter whether a subject or an object loses the feature “non-bounded” for the relevant sentence to become imperfective.

The sentences in (1) comprise two verb arguments, subject and object, each taking part in the explication of perfectivity/imperfectivity – simultaneously with the other verb argument and the verb’s lexical meaning (telic potential). In sentences with one verb argument, see (2) below, the situation is similar: (2a) is perfective, (2b) imperfective, because (2a) contains a bounded argument (a/the/this patient, these/our/two patients) and (2b) a non-bounded one (patients):

(2) 

a. The (a/this) patient/the (these/our) patients/they died [perfective]  
b. Patients died [imperfective]

My theoretical model of CA (Kabakčiev 1984; 1999; 2000; 2019; 2021) follows to a certain extent Verkuyl’s and differs from it in that: (1) verb arguments are called situation-participant NPs (or simply situation participants); (2) the referents of situation-participant NPs are temporal entities, not spatial ones as in Verkuyl’s model (Kabakčiev 2019: 207-212); (3) sentences belonging to Verkuyl’s two schemata are perfective or imperfective in my model not always but by default (Kabakčiev 2019: 205) – unlike in Verkuyl’s model where they are always either perfective or imperfective (Verkuyl 1993: 182); (4) CA in my model is “an all-pervading and perpetual process of mapping temporal features between elements of the sentence, especially between referents of verbs and of nominals that are participants in situations” (Kabakčiev 2019: 212) – as well as between adverbials and referents of verbs or situation-participant NPs; for English, see the CA mechanism similarly described in Bulatović (2013; 2019; 2020), for Greek, Bulgarian and English see Dimitrova and Kabakčiev (2021).

Ultimately, aspect is the same phenomenon across languages, no matter whether it arises in VA or CA terms (Kabakčiev 2021) and, furthermore, VA and CA are mirror images of each other (Kabakčiev 2000: 158-161). VA is found in European languages such as the Slavic ones and Greek, where verbs (almost all, except biaspectral ones) are grammatically encoded as perfective or imperfective. CA is found in languages such as the Germanic ones and Finnish, which lack verbs grammatically marked for perfectivity. For the explication of perfectivity these languages rely on CA – and the compositional mechanism is effectuated at the level of the sentence with the crucial impact of situation-participant NPs (Kabakčiev 2000; 2019). In this cross-language and universal paradigm, for all languages, some are borderline/hybrid cases featuring simultaneously VA and a definite article (no indefinite). Bulgarian and Greek are such languages – featuring VA predominantly, though otherwise belonging to different branches of the Indo-European genealogical tree.
Representing borderline/hybrid systems, they stand between the two main representatives of VA and CA languages: Slavic, Germanic.\(^2\)

Despite being borderline/hybrid languages with VA, Bulgarian and Greek also feature CA – peripherally, and this can be demonstrated in specific conditions with biaspectual verbs (Dimitrova and Kabakčiev 2021). The explication of perfectivity/imperfectivity with biaspectual verbs in Greek is restricted to certain verb forms. It can be demonstrated with future forms but not with past tense forms. This is because Greek preterit verb forms (aorist/imperfect) do not allow biaspectuality – the aorist requires perfective verbs, the imperfect imperfective ones (Dimitrova and Kabakčiev 2021). In Bulgarian, the situation is different. Perfective and imperfective verbs are freely used in both the aorist and the imperfect. Restrictions for biaspectral verbs in Bulgarian are also fewer. The explication of perfectivity/imperfectivity with biaspectral verbs is possible in all tense forms in Bulgarian, with the only exception of 2\(^{nd}\) and 3\(^{rd}\) pers.sg. preterit forms which, similarly to Greek, receive aspectual marking by acquiring an imperfect ending for imperfectivity and no ending for non-imperfectivity (aorist).

Thus hybrid languages like Greek and Bulgarian explicate aspect in CA terms in the same way as this is observed in prototypical CA languages, at the sentence level. The issue is dealt with here because it forms the basis on which Russian is analyzed: a prototypical VA language similar to Greek and Bulgarian, featuring perfectivity and imperfectivity in verbs as lexical entries. Compare the following sentences with three situation-participant NPs in English (3), Greek (4) and Bulgarian (5), demonstrating the CA mechanism. The Greek and Bulgarian sentences are obtained by translating the English ones; see their CA analysis in Dimitrova and Kabakčiev (2021).

\[
\begin{align*}
(3) & \ a. \text{The valet will park [perfective] our car in the parking lot nearby} \\
& b. \text{The valet will park [imperfective] cars\text{CASESLEAK} in the parking lot nearby} \\
& c. \text{The valet will park [imperfective] our car in nearby parking lots\text{CASESLEAK}} \\
& d. \text{Valets\text{CASESLEAK} will park [imperfective] our car in the nearby parking lot}
\end{align*}
\]

\[
\begin{align*}
(4) & \ a. \text{O valé tha parkárei\text{BIASP} [perfective] to aftokínító mas ston kontinó chóro státhmefsis} \\
& b'. \text{O valé tha parkárei\text{BIASP} [imperfective] aftokíníta\text{CASESLEAK} ston kontinó chóro státhmefsis} \\
& c'. \text{O valé tha parkárei\text{BIASP} [imperfective] to aftokínító mas se kontinoús chórous státhmefsis\text{CASESLEAK}} \\
& d'. \text{Valédes\text{CASESLEAK} tha parkárounin\text{BIASP} [imperfective] to aftokínító mas ston kontinó chóro státhmefsis}
\end{align*}
\]

\[
\begin{align*}
(5) & \ a. \text{Pikoloto shte parkira\text{BIASP} [perfective] kolata ni v blizkiya parking} \\
& b. \text{Pikoloto shte parkira\text{BIASP} [imperfective] kolı\text{CASESLEAK} v blizkiya parking}
\end{align*}
\]

\(^2\)In this paradigm, the Romance languages are CA languages but they demonstrate some hybrid features too: aspectual past tense grammemes (French passé composé – perfective, vs imparfait – imperfective), and specific uses of the definite article for encoding non-bounded NP referents.
The (a) sentences are perfective, belonging to Verkuyl’s perfective schema with three situation-participant NPs each bounded through an article and the verb having a telic potential. The three bounded situation-participant NPs simultaneously map their temporal boundedness onto the verb referent, rendering it perfective (cf. the mechanism with two situation-participant NPs in Kabakčiev 2000: 123-151). The other sentences (b, c, d) are imperfective, belonging to Verkuyl’s imperfective schema with three situation-participant NPs. Each sentence is non-bounded because of the non-boundedness of only one of the three situation-participant NPs, thanks to a single zero article (a bare NP). In this model (Kabakčiev 2000; 2019), different from Verkuyl’s atemporal one, the situation-participant NPs are bounded or non-bounded temporally. The temporally non-bounded situation-participant NP in every imperfective sentence maps its non-boundedness onto the verb referent and renders it non-bounded, i.e., imperfective. And, as an additional step in the mapping mechanism, the verb referent renders each of the other two situation-participant NPs non-bounded – indefinitely recurrent/iterative, despite still being accompanied by an article.

As demonstrated in Kabakčiev (2021), sentences with three situation-participant NPs – prototypically in English and peripherally in Bulgarian and Greek (Dimitrova and Kabakčiev 2021), are rare, difficult to find and construct, and extremely valuable for analyzing CA. Using such sentences facilitates the identification of the exact temporal values of the referents of situation-participant NPs and the explanation of the mechanism of mapping these values between referents of NPs and verbs. The twelve sentences in the three languages above show how perfectivity and imperfectivity are realized separately in: (i) a prototypical CA language, English, with no perfective VA and a regular pattern of articles (definite/indefinite/zero); (ii) two VA languages, Greek and Bulgarian, that are also hybrid languages, featuring VA alongside a definite article. Note that while Greek, as already mentioned, has a restriction on the use of biaspectual verbs in the preterit, Bulgarian has similar restrictions but less severe. If a biaspectual verb is in the past and in the singular (the subject representing a singular entity), it must be used either in the aorist (6a) or the imperfect form (6b, c):

\[(6) \quad \text{a. Pikoloto parkira}^\text{BIASP\text{AOR}} \text{ [perfective] kolata ni v blizkiya parking} \]

‘The valet parked our car in the nearby parking lot’

\[\text{b. Pikoloto parkirashe}^\text{IMP \text{LEAK}} \text{ [imperfective] kolata ni v blizkiya parking}^3\]

\[\text{3There is a subtle difference here between the Bulgarian 3rd pers.sg. verb forms parkira ‘parked’ and parkirashe ‘was parking/parked habitually’. The first one is homonymous for the perfective aorist and the imperfective aorist, while the second one can be regarded as a pure imperfect, hence imperfective.}\]
‘The valet was parking/parked habitually cars in the nearby parking lot’
c. Pikoloto parkirasheIMP [imperfective] kolata ni v blizki parkingiLEAK
‘The valet was parking/parked habitually our car in the nearby parking lot’
d. PikolaLEAK parkirahabiASP [imperfective] kolata ni v blizkiya parking
‘The valet was parking/parked habitually our car in the nearby parking lot’

In the plural no such restriction holds: (6d) contains a truly biaspectual preterit verb form.

**Sentences in Russian with Biaspectual Verbs and Three Situation-Participant NPs**

Given that sentences with three situation-participant NPs are important for identifying the temporal values of referents of situation participants in CA languages and in borderline/hybrid VA languages with peripheral CA features (Bulgarian/Greek), the question that begs asking is whether the CA mechanism can be demonstrated in such sentences in prototypical VA languages like Russian – with perfective and imperfective verbs and no articles. For the purpose, let us use an English sentence with three situation-participant NPs (7a), previously analyzed in Kabakčiev (2021). Its constructed Modern English form is based on a Middle English sentence from Cursor Mundi (1300 A.D.). The Cursor Mundi sentence is *She dud þe childe drynke of þe welle* ‘She made the child drink from the well’. It contains the following situation-participant NPs: *she* ‘she’, *þe childe* ‘the child’, *þe welle* ‘the well’. The situation-participant NP *she* is changed into *the woman* – to obtain an NP with an article:

(7)  

a. The woman made [perfective] the child drink from the well  
b. The woman made [imperfective] childrenLEAK drink from the well  
c. The woman made [imperfective] the child drink from wellsLEAK  
d. WomenLEAK made [imperfective] the child drink from the well

Sentence (7a) matches Verkuyl’s perfective schema. It has three bounded situation-participant NPs and a telic verb, *made*. The other three sentences (7b, c, d) demonstrate how each situation-participant is capable, thanks to the CA mechanism, of changing the aspectual meaning of the first sentence, perfective, turning it into an imperfective one. The imperfectivization is achieved through the de-quantification of the relevant situation-participant NP. The de-quantified and hence non-bounded (referent of) *children* in (7b) makes the sentence imperfective vis-à-vis (7a). The de-quantified and hence non-bounded *wells* in (7c) makes the sentence imperfective vis-à-vis (7a). The de-quantified and hence non-bounded *women* in (7d) makes the sentence imperfective vis-à-vis (7a) – according to the mapping mechanism described above.
In Bulgarian and Greek, as already shown, this mechanism of imperfectivizing initially perfective sentences such as (7a) through the impact of a situation-participant NP can also be demonstrated – but not so smoothly, especially in Greek, where there are heavy restrictions. To render a similar picture of CA in Bulgarian with (7a), a biaspectral verb is needed. However, there is no Bulgarian biaspectral verb meaning ‘make somebody do something’. Let us therefore use the verb motiviram ‘motivate’ (the same will be done below in Russian):

(8)  a. Zhenata motiviraba^{BIASP} [perfective] dete ot kladenetsa
    ‘The woman motivated the child to drink from the well’
  b. Zhenata motivirashe^{IMP} [imperfective] detentsa^{LEAK} da piyat ot kladenetsa
    ‘The woman motivated children to drink from the well’
  c. Zhenata motivirashe^{IMP} [imperfective] deto ot kladenetsi^{LEAK}
    ‘The woman motivated the child to drink from wells’
  d. Zheni^{LEAK} motiviraha^{AOR/IMP} [perfective/imperfective] deto ot kladenetsa
    ‘Women/some women motivated the child to drink from the well’

Bulgarian is a VA language like Russian and closely related to Russian in its grammatical system, particularly as regards aspect. As can be seen in (8), the regularity does not work in Bulgarian sentences with a singular subject-NP, just like in (6) above – in the sense that a subject in the singular, representing a single agent, imposes a choice of either an aorist or an imperfect verb form, which means that biaspectuality is eliminated. With future tense verb forms, see (5) above, this does not happen, biaspectuality is effectuated. Note specifically that the verb form motivirah-a^{AOR/IMP} ‘motivated-they’ in (8d) is ambivalent between perfectivity/imperfectivity: it can be read as perfective if zheni ‘women’ is read as bounded, equal to edni zheni ‘some women’, and imperfective if zheni ‘women’ is read as non-bounded (non-quantified).

And now let us have the English sentences (7) translated into Russian – to see whether the interplay between verb referent and NP referents can materialize. A biaspectral verb for “make somebody do something” is absent in Russian, like in Bulgarian, so let us use motivirovat’ ‘motivate’:

(9)  a. Zhenshchina motivirovala^{BIASP} [perfective/imperfective] rebenka pit’ iz kolodtsa
    ‘A/the woman motivated a/the child to drink from a/the well’
  b. Zhenshchina motivirovala^{BIASP} [perfective/imperfective] deti pit’ iz kolodtsa
    ‘A/the woman motivated children/some children/the children to drink from a/the well’
c. Zhenshchina motivirovala_BIASP {perfective/imperfective} rebenka pit' iz kolodtsa
   ‘A/the woman motivated a/the child to drink from wells/some wells/the wells’

d. Zhenschiny motivirovali_BIASP {perfective/imperfective} rebenka pit' iz kolodtsa
   ‘Women/some women /the women motivated a/the child to drink from a/the well’

As can be seen from the English translation equivalents of the four Russian sentences (9), the only conclusion that can be drawn concerning the temporal values of the situation-participant NPs, namely, whether they are bounded or non-bounded, and concerning their nominal determination status, namely, whether they are definite or indefinite, is absolutely clear and categorical, and is the following. All the three situation-participant NPs in each of the four Russian sentences are fully ambivalent between a definite/indefinite and a bounded/non-bounded reading, which makes them completely unanalyzable in CA terms. All the four sentences are absolutely ambiguous between perfectivity and imperfectivity.

Let us begin the analysis with the sentences expected to be imperfective (9b, c, d). Sentence (9b) ought to feature a de-quantified direct object deti ‘children’ vis-à-vis rebenka ‘child’ in (9a). But it does not – not for one, for two reasons. First, deti ‘children’ is not de-quantified, because rebenok ‘child’ is not quantified, unlike in English where child is always quantified, obligatorily appearing as either a child or the child – the reason being that in Russian there are no definite and indefinite articles. Second, deti ‘children’ is, actually, and to be more precise, neither quantified, nor non-quantified – because it can be interpreted as either, i.e., as both. If we take it that sentence (9b) contains a definite subject, “the woman”, and a definite place adverbial, ‘the well’, it can then refer to any of the following three situations: (i) ‘The woman motivated children to drink from the well’ – which in English is an imperfective sentence, with imperfectivity realized in CA terms; (ii) ‘The woman motivated some children to drink from the well’ – which in English is a perfective sentence, perfectivity again realized in CA terms; (iii) ‘The woman motivated the children to drink from the well’ which in English is a perfective sentence, perfectivity realized in CA terms.

The same applies to the other two sentences. In (9c) iz kolodtsa can mean ‘from wells’, in which case imperfectivity is explicated in CA terms, because iz kolodtsa is non-bounded. But iz kolodtsa can also mean ‘from some wells’ or ‘from the wells’, in which case perfectivity is explicated, again in CA terms – iz kolodtsa is then taken to be as if bounded by quantifiers (some/the in English). In (9d), zhenschiny can mean ‘the women’ or ‘some women’, in which case it is bounded, hence perfectivity is explicated in CA terms. But

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zhenshchiny can also mean ‘women’, non-bounded, in which case imperfectivity is explicated, again in CA terms.

All this leads to a rock-solid conclusion that while in English and similar CA languages sentences with three situation-participant NPs like (9) reveal in the most convenient fashion the CA mechanism for mapping temporal values of situation-participant NPs onto the verb referent, as well as the mechanism of re-arranging temporal values of situation-participant NPs in the sentence,⁵ in Russian and similar Slavic VA languages with perfectivity in verbs and no articles such sentences are of no use for explaining biaspectuality, i.e., for disambiguating biaspectral verbs and for demonstrating the CA explication mechanism. This, in turn, leads to the conjecture that while in CA languages like English it is precisely sentences with three situation-participant NPs that are appropriate for generalizations concerning CA, in VA languages without articles generalizations concerning CA will be easier to make in exactly the opposite way: with fewer situation-participant NPs in the sentence and probably, at best, with one situation-participant NP only. But before proceeding to an analysis of Russian sentences with one situation-participant NP, let us first see how biaspectuality is treated in Slavic linguistics, and particularly in Russian.

About the Traditional Treatment – in VA Terms – of Slavic Biaspectuality

This overview of the treatment of biaspectuality in Slavic aspectology will take into account studies published in or after 1980. It would be natural for investigations of biaspectuality from the last four decades to take into account CA, as CA deals precisely with sentence-level explication of aspect, unlike VA, which is a verb-centered phenomenon. Let us see if this expectation is realized.

The Russian (Academy) Grammar (1980: 583, 590) pays due attention to biaspectuality – in fully traditional terms, offering some explanations with a technical flavor of the aspectual meaning of biaspectral verbs, for example, as “supported by adjacent verbs with a formally expressed aspectual meaning”. Thus sentence (10a) demonstrates imperfectivity of the biaspectral past tense form obsledoval-i ‘investigated-they’ – due to the support of the neighboring imperfective verb preduprezhdal-i ‘warned-they’:

(10)a. Oni mnogo raz obsledovali [imperfective] etot ob’ekt i preduprezhdali o vozmozhnosti nepoladok
‘They investigated this object many times and warned about possible problems’

⁵As shown earlier in the paper, in hybrid languages with VA and simultaneously a definite article (Bulgarian, Greek) these sentences again can, albeit with certain restrictions, demonstrate the CA mechanism of mapping temporal values of situation-participant NPs onto the verb referent and the mechanism of re-arranging the temporal values of situation-participant NPs in the sentence.
b. Kak toľ'ko bol'nogo gospitaliziruyut BIASP-PRESENT [perfective], soobshit mne ob etom
‘As soon as the patient is hospitalized, let me know’
c. Vrach gospitaliziruet BIASP-PRESENT [imperfective] bol’nogo i otpravlyaet ego na mashine skoroy pomoshchi
‘The doctor hospitalizes the patient and sends him by ambulance.’

In (10b) the biaspectral form gospitaliziruyut-t ‘hospitalize-they’ is in a pattern within a dependent clause beginning with kak toľ’ko ‘as soon as’, requiring perfectivity to be assigned to it. Nominally a present tense form of a biaspectral verb is imperfective but its use here is in a dependent clause with a futurate/conditional meaning (as in English When/if/once they hospitalize the patient, let me know). In (10c), conversely, the biaspectral verb gospitaliziruet ‘hospitalizes’ is again a present-tense form but this time with an imperfective meaning due to its use in an independent clause.

Concerning the prevalence of biaspectral verbs in Russian, Gladney (1982: 202) points out that Russian dictionaries contain some 600 verbs entries in -ovat’, biaspectral, and that these verbs have a definite aspectual meaning in every concrete instance – a statement that appears wrong (see below). Different attempts at estimates of biaspectral verbs quote different numbers but almost always fewer than one thousand (Anderson 2002: 13-14; Janda 2007; Piperski 2018). This is an obvious underestimation. With the stormy development of computer technology for decades already and the unceasing influx of English verbs in -irovat’ and -ovat’, the presence of biaspectral verbs in Russian ought to be much higher.

Gladney (1982: 202) rightly concludes that a better understanding of biaspectral verbs should lead to a better understanding of VA. Unfortunately, many Slavic aspectological studies treat biaspectral verbs (sometimes called anaspectual – Bermel 1997: 180-181; Timberlake 2004: 407-408) as if they represent a negligible class or even as if they do not exist. Gladney’s conjecture four decades ago about the importance of biaspectral verbs for the study of aspect thus remains ignored. In many newer publications on aspect, biaspectuality is either not discussed at all (Rassudova 1982; Glovinskaja 2001; Shkunnikov 2003; Karavanov 2005; Sokolovskaya 2008; Lagunow 2014) or mentioned only in passing (Stunová 1993; Durst-Andersen 1992; Gorlatov 2009). Mirohina (2009: 21), briefly discussing biaspectral verbs, argues that “their place in the system of aspect has not yet been determined”. Even strange statements are encountered, according to which Russian features an insignificant number of biaspectral verbs (Makarova 2009: 10). Given the number of works in which biaspectuality is not discussed or is only mentioned, it is worth asking: if the use of aspect in the form of perfective and imperfective verbs is intricate, as these publications otherwise regularly emphasize, what about biaspectral verbs? Their use is even more intricate than that of perfective and imperfective verbs, because they are aspectually ambiguous but in most cases explicate perfectivity or imperfectivity. Exactly how do they accomplish this? In many descriptions of the use of perfective and imperfective verbs, even
detailed ones, the authors sidestep this issue – let alone propose a viable explanation of how aspect is effectuated with Russian biaspectual verbs.

Janda (2008: 181) argues that “biaspectual verbs are never ambiguous in context”, quoting a surprisingly large number of publications sharing this view – indeed mainly old, but there are also recent ones maintaining it, e.g., Starý (2017: 112). This thesis is wrong and goes against the position in the Russian Grammar (1980: 590), according to which there are cases in which neither the form of a biaspectual verb nor its context can clarify the aspectual meaning:

(11) a. Biologicheskij metod bor'by protiv neproshennyh “nahlebnikov” sostoit v tom, chtoby aktivizirovat'BIASP [perfective/imperfective] polchishcha ih antagonistov – nasekomyh hishchnikov

‘The biological method of fighting uninvited “freeloaders” is to activate the hordes of their antagonists – insect predators’

b. Eta stantsija vpervye translirovalaBIASP [perfective/imperfective] v efir operu “Jevgenij Onegin” iz Bol'shogo teatra

‘This station was the first to broadcast the opera Eugene Onegin from the Bolshoi Theater’

In (11a) it is hard to decide whether the speaker has in mind a single activation of insect predators or a regular, permanent one, non-bounded. In (11b) it is hard to decide whether the speaker has in mind a single broadcast or a regular one, repeated, non-bounded in time. The biaspectual forms aktivizirovat' ‘activate’ and translirovala ‘broadcast’ cannot, therefore, be assigned a definite aspectual reading (perfective or imperfective). Similar cases in English (where all verbs are, as it were, biaspectual) are discussed in Verkuyl (1993: 329-338) – and in Kabakčiev (2000: 111-112) under the label “aspectually ambiguous verbs”. An Old English example in Sommerer (2018: 80), Æfter þan þæt lond wearþ nemned natan leaga ‘After that, the land was called Netely’, is discussed in Kabakčiev (2021), with a comment that such “cases of absence of aspect” in English are exotic. They occur rarely indeed but they do exist – and must hence be taken into account. The wrong thesis that biaspectual verbs are never ambiguous in context (Janda 2007; 2008: 181) is worth considering from another point of view too. Since biaspectual verbs are disambiguated in context in the large majority of cases, it begs the question exactly how they are disambiguated.

All the Slavic languages have biaspectual verbs – already discussed on Bulgarian data. According to the Russian Grammar (1980: 590), the aspectual meaning of biaspectual verbs can be established “through the general meaning of the utterance”, or, in the usual wording, “from the context”. The following examples are given in the Russian Grammar (1980: 583) – with perfectivity effectuated in (12a) and imperfectivity in (12b) with the verb gospitalizirovat' ‘hospitalize’. But no attempt is made at a reasonable explanation how the aspectual meaning arises:
Let us analyze. Sentence (12a) belongs to the AOSV pattern, with two major situation-participant NPs: the hospital staff, grammatically present in a covert way in the 3rd pers.pl. pronoun they, and a patient (he). The severe illness in the past is also a situation participant, in the form of an adverbial. The verb is fully ambivalent aspectually, so this is not a case of VA expression but of CA explication, at the sentence level. It may happen that a sentence does not offer enough clues whether the aspect is perfective or imperfective. Knowledge of the world then may play an important part (Kabakčiev 2000: 309-326). The problem to decide here is whether:

- (12a) describes a single event in which the situation participants he (the patient) and they (the hospital staff), grammatically covert in 3rd pers. pronouns, are single and temporally bounded entities, and the potential third situation participant, severe illness, is also a single and temporally bounded entity, or;
- this is a temporally non-bounded situation in which the three participants are temporally non-bounded entities.

The choice between the two options is a task faced by the hearer of the sentence, who must interpret it – along with other similar aspectually ambivalent sentences. Let us consider the second option first. The easiest way to envisage (12a) as a case of imperfectivity is to add an adverbial of indefinite repetition (non-bounded iterativity, recurrence) such as chasto ‘often’, as in (12b). Sentence (12a) with chasto ‘often’ added will have the form (12a'):

(12a'). Vvidu tyazhelogo zabolevaniya bol'nogo chasto gospitalizirovali_BIASP-PAST [imperfectivity]
   ‘Because of the severe illness, the patient was often hospitalized’

What does the adverbial chasto ‘often’ do here? It maps its indefinite repetition (non-bounded iterativity, recurrence) onto the referent of the verb gospitaliziroval-i ‘hospitalized-they’ rendering its meaning non-bounded and iterative, i.e., imperfective. What traditional grammar fails to understand is that an adverbial of indefinite repetition not only maps its recurrence onto the referent of the verb, it also maps its recurrence onto the referents of the situation-participant NPs. In this case they are three: the hospital staff (they); the patient (he); severe illness. What does this mean? It means that in order to have an imperfective sentence such as (12a'), we must not only have a verb expressing/explicating imperfectivity of the non-bounded iterative type; we
must have all the situation participants non-bounded and iterative, recurring an indefinite number of times, including the hospital staff in the form of non-bounded and iterative instantiations – these instantiations dealing with non-bounded and iterative instantiations of the patient. In other words, in (12a') we have all the referents of the situation-participants NPs non-bounded and iterative – but the human brain, the software in our heads, is tweaked in such a way that, in order to save memory, it merges into one entity the non-bounded and iterative instantiations of the hospital staff, as well as of the patient and even of severe illness (see Kabakčiev 2000: 117-119). To put it otherwise, for traditional linguistics the hospital staff is one entity, uninterrupted in time (which cannot be true – however we wish to interpret this), the patient is also only one, the same one (which may be true but only in commonplace terms), and even severe illness appears to be one entity, while obviously it cannot be the same health situation every time.

Let us return to the task for the hearer – to decide whether sentence (12a) has the meaning of (12a'), non-bounded iterative, imperfective – which is possible in principle even without the addition of chasto ‘often’, or has the other meaning, in which we have a single instantiation of the hospital staff, a single instantiation of the patient and a single instantiation of severe illness. The hearer in these cases obviously decides that sentences such as (12a) with the situation-participant NPs and the verb non-marked for boundedness or non-boundedness, are perfective, explicating a single completed situation and a single instantiation of the hospital staff, the patient and of severe illness. Precisely why this is so probably has to do with the singularity (grammatical) of the NPs, implicating that sentences such as (12a) must be regarded as perfective by default – which means that in the presence of markers of indefinite iterativity in the sentence (or the larger context) these sentence can be interpreted as indefinitely iterative, imperfective. But by default, they are perfective.

To finish this overview of the traditional treatment, in VA terms, of Slavic biaspectuality, complemented by a CA analysis of biaspectuality, it is strange to find that a recent large monograph on Russian aspect (Zaliznyak et al. 2015: 86-87), pays very little attention to biaspectuality. The authors not only see it as a peripheral phenomenon but even insist that the language system is trying to eliminate it. A view of this kind sidesteps two facts. First, biaspectuality existed for centuries and was never eliminated. Second, today all the Slavic languages, including Russian, are experiencing an extremely powerful influx of English verbs, especially from the computer sciences – and these verbs are very often borrowed as biaspectral. In any case, Zaliznyak et al. (2015) fail to explain how biaspectuality is disambiguated – as a result of a lack of knowledge of CA, a characteristic feature of Russian aspectology.
Aspect and Biaspectuality in Slavic Publications Partially Dealing with the CA Theory

As already established, although CA was discovered 50 years ago, i.e., the theory behind it is half a century old (Verkuyl 1972), it is still far from popular among Slavic aspectologists. There are some exceptions to the practice of ignoring the CA theory in studies of Slavic VA, among which Padučeva (2004), Borer (2005), Borik (2006), Romanova (2007), Tatevosov (2015), Spasojević (2015). But they all follow approaches that are entirely atemporal, not viewing referents of situation-participant NPs as temporal entities – which, as already demonstrated in detail in Kabakčiev (2019), leads straight into a dead end. The huge problem of the atemporal understanding of CA is that it ignores the major CA postulate, established with the very birth of the CA theory (Verkuyl 1972), that aspect is explicated at the level of the sentence, not at the level of its components. But apart from employing a hopeless atemporal approach to the compositional buildup, in addition CA studies drastically sidestep the role of the subject as a carrier of a major situation-participant NP for the effectuation of the compositional mechanism.

Borer (2005) and Borik (2006) applied Verkuyl’s CA model onto Russian data fully mechanistically and concluded that it did not work, ignoring earlier data and argumentation that it does (Kabakčiev 2000).6 Tatevosov (2014; 2015) and Romanova (2007), discussing Russian, follow an atemporal approach, focusing their attention on internal arguments. In a subsection entitled Action Composition (by which CA is obviously meant), Tatevosov (2015) argues that CA is an interaction between verbal and non-verbal components of the predication, “most important of which is the internal argument”. As already demonstrated above, CA is not predicate- or verb-based (apart from Kabakčiev 2000; 2019, see this also in Bulatović 2019; 2020 and Dimitrova and Kabakčiev 2021). Tatevosov (2015) also offers the view that languages are “of the English type”, in which internal arguments impact aspect, or “of the Russian type”, where “the telicity of the event predicate restricts the interpretation of the argument”. Assertions like this clearly result from unfamiliarity with broader generalizations made earlier (Kabakčiev 2000: 168-161) that CA is not only strictly sentence-based (not VP-based) but is also a mirror image of VA. Romanova (2007), demonstrating knowledge of CA and otherwise offering various in-depth analyses of quantitative properties of verb arguments, also remains constrained within the VP domain, failing to interpret CA as a sentence-level phenomenon.

Familiar with CA, Spasojević (2015) also fails to employ Verkuyl’s aspectral schemata in her analysis of Serbian biaspectuality – something previously done on Bulgarian (in Kabakčiev 1984; 2000), a language closely related to Serbian. Spasojević’s approach to biaspectuality entirely follows the Slavic tradition of using very long, complex sentences, trying to explain their

6The gross defects of the atemporal approach, followed by many – or even most – researchers, are revealed in detail in Kabakčiev (2019: 212-214).
aspectual meanings only through the native speaker’s intuition (Spasojević 2015: 84-91). Other recent publications dealing with Slavic biaspectral verbs are Zinova and Filip (2013), Zaliznyak et al. (2015), Starý (2017), Piperski (2018). None of them employs a CA approach. Practically, to the present day and with the exception of my own studies, some of them published decades ago (Kabakčiev 1984; 2000), the CA theory, whether in Verkuyl’s version or in mine, has never been applied to the study of Slavic biaspectuality. But it has been applied to Bulgarian and Greek data here, above, and will also be done below, on Russian data.

Biaspectuality on Russian Data Through the Prism of the CA Theory

As is common knowledge, the concept of a bare NP emerged on the basis of data from languages such as English. After the discovery of CA by Verkuyl its significance rose along with the realization that the zero article (found in a bare NP) is the only language marker of what Verkuyl calls “non-specified quantity”, i.e., non-boundedness. But in languages such as Russian and the other Slavic tongues (except Bulgarian) the concept of a zero article does not work in the same way as in English and similar languages. This is because a bare NP is ambiguous in meaning as regards the values (in)definiteness and (non-)boundedness, and hence the concept of a bare NP is of lesser value there – with the exception (partial) of otherwise VA languages like Bulgarian and Greek in which the presence of a definite article triggers a permanent contrast between definiteness and indefiniteness. In Bulgarian and Greek a noun in a bare NP – whether the NP is singular or plural, is always indefinite and stands in opposition to an NP with the same noun and a definite article. This means that in languages with VA and no articles, the higher the number of bare NP situation participants in a sentence, the higher the possibilities for ambiguity of the situational meaning of the relevant sentence. And this, in turn, means that opportunities for disambiguating biaspectuality, as already established, should be sought not in sentences with two or three NP situation participants but, vice versa, mainly in sentences with only one situation-participant NP – such that a very clear distinction can be made there between a quantified NP (a bounded referent), and a non-quantified NP (a non-bounded referent).

Consider the following fairly simple examples in Russian and Bulgarian in which the relevant biaspectral verb has a single situation-participant NP associated with it and there are no aspect-related adverbials, conjunctions or similar additional elements that could interfere with the aspectual analysis:

(13) a. Kak organizovat’[BIASP [perfective] sobranie sobstvennikov?  
   a’. Kak da se organizira[BIASP [perfective] sabranie na sobstvenitsite?  
   “How to organize a meeting of the co-owners?”

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7To my best knowledge.
b. Kak organizovat'\textsubscript{BIASP} [imperfective] semejnye rashody
b'. Kak da se organizirat\textsubscript{BIASP} [imperfective] semejni razhodi
‘How to organize family expenses?’

(14)  
\begin{itemize}
  \item a. Kak organizovat'\textsubscript{BIASP} [perfective] kontsert?
  a'. Kak da se organizira\textsubscript{BIASP} [perfective] kontsert?
  ‘How to organize a concert?’
  
  \item b. Kak organizovat'\textsubscript{BIASP} [imperfective] simfonicheskie rok-kontsertyi?
  b'. Kak da se organizirat\textsubscript{BIASP} [imperfective] simfonicheski rok-kontserti?
  ‘How to organize symphonic rock concerts?’
\end{itemize}

(15)  
\begin{itemize}
  \item a. Kak organizovat'\textsubscript{BIASP} [perfective] moyu svad'bu?
  a'. Kak da se organizira\textsubscript{BIASP} [perfective] svadbata mi?
  ‘How can my wedding be organized?’
  
  \item b. Kak organizovat'\textsubscript{BIASP} [imperfective] svad'by?
  b'. Kak da se organizirat\textsubscript{BIASP} [imperfective] svadbi?
  ‘How to organize weddings?’
\end{itemize}

Clearly, organizovat' sobranie sobstvennikov (Russian)/organiziram sabranie na sobstvenitsite (Bulgarian) ‘organize a meeting of co-owners’ are perfective phrases, while organizovat' semejnye rashody (Russian)/organiziram semejni razhodi (Bulgarian) ‘organize family expenses’ are imperfective phrases. Why? Because a meeting of co-owners is normally, by default, a single event, temporally bounded, with a definite beginning and a definite end – e.g., from 7 pm to 9 pm today. In the perfective phrase organizovat' sobranie sobstvennikov ‘organize a meeting of co-owners’, the temporal boundedness of sobranie sobstvennikov ‘a meeting of co-owners’ is mapped onto the (referent of the) biaspectual verb organizovat’ ‘organize’ – and the verb is read as signaling perfectivity. Conversely, NPs such as semejnye rashody (Russian)/semejni razhodi (Bulgarian) ‘family expenses’ do not denote a single temporally bounded event. They denote temporal entities with no definite beginning and no definite end. Hence they are non-bounded on the time axis and their non-boundedness is mapped onto the (referent of the) biaspectual verb organizovat’/organiziram ‘organize’ in the relevant V-NP phrases, rendering the aspectual value imperfective. Similarly with “organize a concert” and “organize my wedding” in (14a, 15a) – perfective because of the boundedness of these NPs, and “organize symphonic rock concerts” and “organize weddings” in (14b, 15b) – imperfective because of the non-boundedness of the NPs.

A peculiar trait of the English language are the well-known verb-noun collocations of the type have a fall, have a listen, have a look, have a smoke, usually called have a look (type of) phrases, in which the verb have manifests no aspecialtual features and the explication of perfectivity is effectuated by the noun. Thus a swim in John had a swim is a temporally bounded entity and its boundedness is mapped onto had, rendering the aspectual value of had and of the phrase had a swim perfective, see Kouteva et al. (2019: 343) – where the description is based on Kabakčiev’s (2000: 212) theoretical model comprising mapping of temporal boundedness from the referent of the noun onto the verb
referent. Conversely, in *John had dignity* the noun *dignity* denotes an entity non-bounded in time. The temporal non-boundedness is mapped onto the referent of the verb *had*, making the aspectual value of *had* and of the phrase *had dignity* imperfective; see Kabakčiev (2000) about English, Kabakčiev (1999) about Bulgarian, see also Dimitrova and Kabakčiev (2021) about Greek.

Let us move on to the SVO pattern, i.e., to Russian sentences with two situation-participant NPs. Phrases similar to the English *have a look* type do not at all appear to be common in Russian, but there are some that are sometimes encountered. Russian phrases corresponding to the English *have a look* collocation are of two types: (a) *imet' + NP* phrases such as *imet' besedu* ‘have a conversation’, *imet' glupost' ‘had the stupidity’, *imet' porazhenie ‘have a defeat’; (b) the pattern *u menja/nego* (etc.) *bylo + NP* ‘I/he had’ (literally ‘with me/him was’), considered to be somewhat more standard than *imet' ‘have’ + NP*. In both, the imperfectivity of the verbs *imet’ ‘have’* and *byt’ ‘be’* can be said to be so weak that it fails to stand its ground in specific semantico-syntactic conditions and allows perfectivization. Consider the following sentences with *imet* ‘have’ explicating perfectivity and each having an equivalent phrase with a perfective verb:

(16)a. *Ja imelBIASP besedu* [perfective] *s general'nym direktorom [= provelPFV besedu]*
   ‘I had a conversation with the director general’
   b. *Ja imelBIASP glupost' [perfective] stat' vratarem [= sovershilPFV glupost']*
   ‘I had the stupidity to become a goalkeeper’
   c. *Vstrechus' s sopernikom, ot kotorogo ranee ja imelBIASP porazhenie* [perfective = dopustilPFV porazhenie]
   ‘I will meet an adversary against whom earlier I had a defeat’

Note that if the phrase *imet'BIASP porazhenie ‘have a defeat’* is perfective in (16c) due to the temporal boundedness of the nominal *porazhenie ‘defeat’* as well as to the temporal boundedness of the referent of the personal pronoun *ja ‘I’*, both simultaneously mapped onto the referent of the verb *imel ‘had-I’*, in (17a, b) the same verb explicates imperfectivity. This is again effectuated in CA terms. In (17a) the non-boundedness (indefinite iterativity) of *porazhenija ‘defeats’* is mapped onto the referent of the verb *imel ‘had-I’* and in (17b) the lexical non-boundedness of *nadezhda ‘hope’* is also mapped onto the referent of *imel*:

(17)a. *Vstrechus' s sopernikom, ot kotorogo ranee ja imelBIASP porazhenij* [imperfective]
   ‘I will meet an adversary against whom earlier I had defeats’
   b. *Ja imelBIASP nadezhdu* [imperfective] *vernut'sja*
   ‘I had a hope to return’

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8These phrases are also common in Bulgarian: *imam beseda ‘have a talk’, imam glupostta ‘have the stupidity’, imam porazhenie ‘have a defeat’.*
The Russian phrase *u menja bylo* ‘I had’ can be accompanied by nouns such as *predubezhdenie* ‘prejudice’, as in (17c), where it is imperfective – because *predubezhdenie* ‘prejudice’ as a lexical entry denotes an entity non-bounded in time. The reason? It is because we do not know where prejudice starts and where it ends: non-boundedness and ultimately imperfectivity is contained in the lexical semantics. Conversely, if accompanied by nouns such as *sobesedovanie* ‘talk’, the *u menja bylo* ‘I had’ phrase is perfective, as in (17d). The reason is again lexical semantics. Lexical entries such as *sobesedovanie* ‘talk’ denote entities bounded in time: we know that a talk starts at a particular point in time and ends at another particular point in time, in contrast to lexical entries such as *predubezhdenie* ‘prejudice’ about which we know that they lack a definite starting-point and a definite endpoint. Finally, when *sobesedovanie* ‘talk’ is in the plural but accompanied by a quantifier, *tri sobesedovania* ‘three talks’ as in (17d), the phrase is perfective: *tri sobesedovania* ‘three talks’ is mapped onto the referent of the verb *bylo* ‘was/were’ in the phrase *u menja bylo* ‘I had’. If *sobesedovania* ‘talks’ is a bare plural NP, as in (17e), the aspectual meaning is imperfective – here non-bounded iterativity occurs.

Thus although the verbs *imet’* ‘have’ and *byt’* ‘be’ are generally thought to be imperfective, the relevant examples in (16) and (17) show that they should rather be regarded as biaspectual verbs whose aspectual meanings depend on the NPs associated with them. The phrase *u menja bylo* ‘I had’ (literally ‘with me was’) appears even more imperfective at first sight, but examples such as (17d) demonstrate that it can also be associated with the explication of perfectivity. It can easily be conjectured that the patterns *ja imel* ‘I had’ and *u menja bylo* ‘I had’ are not productive in Russian – because temporally bounded situations are easily denoted by perfective verbs. Conversely, the *have a look* type of phrases is extremely widespread in English because of the absence of perfective verbs and the need to signify perfective, temporally bounded situations – that are otherwise impossible to express through verbs only (or mainly) as in Russian.

Just like in English, Greek and Bulgarian, the temporal boundedness of the nominal (*beseda* ‘a talk’, *glupost’* ‘stupidity’, *porazhenie* ‘a defeat’) is mapped onto the referent of the verb, rendering its aspectual meaning perfective. See the mechanism described in Kabakčiev (1999) for Bulgarian; Dimitrova and Kabakčiev (2021) for Greek; Kabakčiev (2000: 211-239) for English; for English also Kouteva et al. (2019: 343). And vice versa, when the nominal
stands for a temporally non-bounded entity, as in (17a, b, c, e), the relevant a
menja bylo ‘I had’ or ja imel ‘I had’ phrase explicates imperfectivity.

The impact of nominals in Russian can, of course, also be observed in
more – and even much more – complex sentences, and this may happen there
not because of the use of determiners and quantifiers but under the impact of
the context, in pragmatic terms. Compare the following ones in which pragmatic
knowledge partly interferes with quantification:

(18)a. Optimizirovat'BIASP [perfective] etot biznes vozmozhno, no potrebuet
usilij
‘It is possible to optimize this business but it will require some efforts’
b. Esli ja ne mogu optimizirovat'BIASP [imperfective] biznesy kompanij,
nado menja otpravit' na kursy
‘If I cannot optimize businesses of companies, I must be enrolled in
courses’

It has been known since Vendler (1957) and Verkuyl (1972) that phrases
like optimize businesses in English are imperfective as a default, in contrast to
phrases like optimize these businesses, quantified through a demonstrative,
which are perfective, again as a default. The picture observed with biaspectual
verbs in Russian and other Slavic languages is similar, but not quite the same.
The phrase optimizirovat'BIASP etot biznes ‘optimize this business’ is perfective
by default, due to the quantifying impact of the demonstrative etot ‘this’. But
the phrase optimizirovat'BIASP biznesy kompanij ‘optimize businesses of
companies’ is not necessarily an imperfective one. It can be imperfective if
biznesy kompanij ‘businesses of companies’ is envisaged by the speaker as a
non-bounded entity, non-specific, corresponding to the bare NP businesses
in the phrase businesses of companies in English. But if biznesy ‘businesses’ is
envisaged by the speaker as a definite entity, corresponding to the businesses
(of the companies) in English, then the phrase optimizirovat'BIASP biznesy will
be perfective and will correspond to optimize the businesses (of the companies)
in English.

Note carefully that in all these examples, the aspe ctual meaning of a
biaspectual verb in Russian is disambiguated as a result of the impact of
nominals (referents of situation participants) associated with it. In all these
sentences it is mainly the relevant nominal(s) that determine(s) the final
aspe ctual reading of the verb.9 Of course, in so far as aspect in compositional
terms is explicated at the level of the whole sentence and not at the VP level (a
fundamental postulate in Verkuyl’s 1972 CA theoretical model, also in
Kabakčiev’s 2000; 2019), the subject, superficially syntactically present – e.g.,
as a pronoun, as in (19a, b) below (Ja ne mogu ‘I cannot’), or not (but
morphologically present in the relevant ending of the verb, cf. ne mogu
‘cannot-I’), also plays an important part. Consider the following examples, in

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9As already explained, perfectivity also depends on the presence of a verb with a telic potential.
which the aspectual value of the biaspectral verb *optimizirovat’* ‘optimize’ is perfective in (19a) and imperfective in (19b):

(19)  

a. Ja ne mogu optimizirovat’\textsubscript{BIASP} [perfective] moj biznes  
‘I cannot optimize my business’

b. Nachinajushchie ne mogut optimizirovat’\textsubscript{BIASP} [imperfective] biznesy  
‘Beginners cannot optimize businesses’

The referents of the subject and the object (‘I’, ‘my business’) in (19a) are temporally bounded entities by default, whose boundedness is mapped onto the referent of the verb *optimizirovat’*\textsubscript{BIASP} ‘optimize’, itself non-marked for (non-) boundedness, singularity or iterativity, because of its biaspectuality. As a result of this temporal boundedness of the two NP referents, the verb is forced into signaling a situation which is bounded and singular – that is, forced into perfectivity.

If the verb is replaced by a perfecive one, *uluchshit’* ‘better’, as in (20a), what happens is the opposite, the referent of the verb *uluchshit’*\textsubscript{PFV} ‘better’ maps its temporal boundedness onto the two situation-participant NPs, rendering them temporal bounded singular entities. Thus contrary to statements in the literature along the lines of “there is no test that allows to positively identify perfective verbs” (Zinova and Filip 2013), it is perfectly clear why sentences such as (20a) contain perfective verbs. Simply because there is no other way for perfective aspect to be explicated in languages lacking nominal markers of boundedness – such as all the Slavic ones (save Bulgarian). If the verb in (20a) is replaced by an imperfective one, *uluchshat’* ‘better’, as in (20b), the referent of the imperfective *uluchshat’* ‘better’ maps its temporal non-boundedness onto the two situation-participant NPs *ja* ‘I’ and *biznesy* ‘businesses’, whereby *ja* ‘I’ and *biznesy* ‘businesses’ become indefinitely iterativized entities:

(20)  

a. Ja ne mogu uluchshit’\textsubscript{PFV} moj biznes  
‘I cannot better my business’

b. Ja ne mogu uluchshat’\textsubscript{PFV} moj biznes  
‘I cannot better my business’

c. Nachinajushchie ne mogut uluchshat’\textsubscript{IMPFV} biznesy  
‘Beginners cannot optimize businesses’

What happens in (19b) above is in a certain sense contrary to (20c). In (19b) the subject-NP *nachinajushchie* ‘beginners’ does not refer to a specific group of beginners but to beginners in general – the subject-NP has a generic meaning. The object-NP *biznesy* ‘businesses’ is also temporally non-bounded and the non-boundedness of both subject- and object-NP is mapped onto (the referent of) the verb *optimizirovat’* ‘optimize’, making it signal temporal non-boundedness, i.e., imperfectivity, in spite of its aspectual ambivalence (biaspectuality). In (20c) the imperfectivity of *uluchshat’* ‘better’ governs (allows or even requires) the generic or generic-like meaning of *nachinajushchie*
‘beginners’, in contrast to perfective verbs, which normally disallow association with generic NPs. All these regularities observed in Russian and similar languages must be taken into account, especially the circumstance that, due to the lack of articles, bare NPs in these languages are not at all always non-bounded and must be interpreted as bounded or non-bounded also in terms of the principles of knowledge of the world – for each separate case.

Conclusion

Bulgarian and Russian are Slavic languages but they differ substantially in terms of the ways of CA effectuation with biaspectual verbs. They actually differ more than Bulgarian differs from Greek. Bulgarian and Greek are closer along these lines although they are languages from different branches of the Indo-European genealogical tree. The preliminary expectation that in prototypical languages featuring VA such as Russian CA would be explicated in similar terms as in hybrid languages like Bulgarian and Greek (with VA, a definite article and no indefinite) did not materialize. This is because of the impossibility to associate a bare NP in languages without articles such as Russian solely with a non-bounded situation participant – unlike in languages such as English, and partly also Bulgarian and Greek, due to the presence of definite articles.

While in English and similar languages, where CA is effectuated through the regular pattern of a definite and an indefinite article, sentences with three situation-participant NPs are indicative of the CA mechanism, in languages with no articles and with VA (perfective and imperfective verbs as lexical items) CA cannot be effectuated through the use of biaspectual verbs in sentences with three situation-participant NPs. This is because the higher the number of situation-participant NPs in a sentence, the higher the possibility for ambivalence of the NPs in terms of temporal (non-)boundedness and (in)definiteness.

It thus follows that in Russian and similar languages with VA and no articles (like Polish, Czech, Ukranian, Serbian, etc.) the lesser the number of situation-participant NPs in a simple sentence with a biaspectual verb (one at best, or two), the higher the opportunities for disambiguating the aspectual interpretation of a biaspectual verb. As for sentences with two or three situation-participant NP and a biaspectual verb, the precise manner in which aspect is systematically disambiguated would obviously have to be a serious matter for future research.

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