How 'here' and 'now' in Russian and English establish joint attention in TV news broadcasts

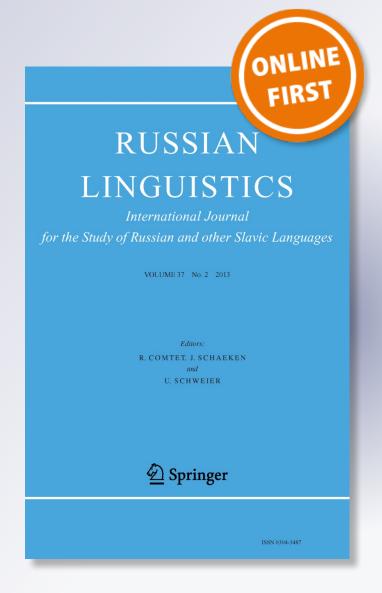
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How 'here' and 'now' in Russian and English establish joint attention in TV news broadcasts

Как эквиваленты 'here' и 'now' в русском и английском устанавливают совместное внимание в теленовостях

Tore Nesset · Anna Endresen · Laura A. Janda · Anastasia Makarova · Francis Steen · Mark Turner

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Abstract This article presents a thorough investigation of the five Russian deictic words that correspond to the English meanings 'here' and 'now': *zdes'*, *tut*, *sejčas*, *teper'* and *vot*. We analyze data from the Russian National Corpus and data from Russian TV news broadcasts. On the basis of the corpus data, we propose a radial category network consisting of nine subcategories, which encompass all five words, and show that although the deictic words have overlapping distributions, they all have distinct 'radial category profiles' in the sense that they display different centers of gravity in the network. We advance the 'Minimal Adaptation Hypothesis', according to which language makes adaptations that are as small as possible, when applied to a new setting, such as the one created by TV.

Аннотация В статье представлено тщательное исследование пяти дейктических слов русского языка, соответствующих английским 'here' и 'now': *здесь, тут, сейчас, теперь* и *вот.* Мы проанализировали данные Национального корпуса русского языка, а также данные русских телевизионных выпусков новостей. На основе данных корпуса мы предлагаем радиальную сеть значений, состоящую из девяти подкатегорий и

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описывающую все пять дейктических слов. Мы показываем, что, хотя исследуемые дейктические единицы пересекаются в их распределении, каждая из них имеет свой 'профиль радиальной категории', иными словами, свой центр тяжести в рамках предложенной радиальной сети значений. Мы также выдвигаем 'гипотезу минимальной адаптации', согласно которой приспособление языка к новым условиям функционирования, таким как условия телевидения, оказывается по возможности минимальным.

1 Overview and contribution

What happens to language when it adapts to a new setting? In this article, we explore this question by investigating the use of Russian spatial and temporal deictic words in TV news. TV creates a new setting for language to adapt to since the communication situation is different—what is 'here' and 'now' for a news anchor is not necessarily 'here' and 'now' for the viewers. Therefore, the question arises as to how deictic words are used in TV broadcasts. Russian provides a perfect testing ground for this question since it has five deictic words that correspond approximately to the English 'here' and 'now': zdes' and tut which can both be glossed as 'here'; sejčas and teper' which can both be glossed as 'now'; and vot which is closer to French voilà, thus combining 'here' and 'now' in a verbal pointing gesture.

Our investigation can be summarized as follows: firstly, we demonstrate that the relevant deictic words have partly overlapping meanings; while all the meanings of all the words in question can be described by means of one large radial category network, each word has its own 'center of gravity' in the network, or, in the terminology we propose, its own 'radial category profile'. Secondly, we investigate the relationship between time and space and show that while temporal deixis depends on spatial deixis, time is not merely a mirror image of space. Thirdly, we show that language in TV differs from language in other settings—an interesting case in point is the use of *sejčas* 'now' for the purposes of story segmentation in TV news broadcasts. Fourthly, our study has implications for linguistic theory, insofar as radial category profiles and conceptual integration prove to be valuable theoretical tools for the study of deictic words. Finally, with regard to the question we posed in the beginning, we suggest that language adapts to new settings by distributing its resources slightly differently—in fact, the differences are so subtle that thorough linguistic analysis is required in order to shed light on them. In order to capture this insight explicitly, we propose what we call the 'Minimal Adaptation Hypothesis'.

Our argument is structured as follows. After a brief discussion of the key concept of 'blended joint attention' in Sect. 2, we analyze the meanings of the spatial words *zdes*' and *tut* in Sect. 3 and the temporal uses of *sejčas*, *teper*' and *tut* in Sects. 4 and 5, before we turn to *vot* in Sect. 6. The characteristics of language in TV news broadcasts are addressed in Sect. 7, where we introduce the Minimal Adaptation Hypothesis. Conclusions are offered in Sect. 8.

2 Deixis: blended joint attention

In order to investigate the use of deictic words in TV, we must pinpoint the differences between the prototypical communication situation and the situation created by TV. We show that these differences can be described adequately in terms of what we call 'blended joint attention'.



Let us take as our starting point a simple situation where a speaker (encoder) and an addressee (decoder) direct their attention to something present in the immediate space surrounding the two participants, such as a blackbird in a tree. The speaker can point at the bird and say to the addressee: the blackbird is here now. Although a situation of this type, which we refer to as 'classic joint attention' (cf. Tomasello and Farrar 1986), enables us to understand the basis of deixis, deictic words such as here and now and their Russian equivalents are used to refer to many things and abstract entities that are not actually present in the immediate physical surroundings of the speaker and the addressee at the moment of speech. They can jointly attend to their joint memory of something they saw the day before, even though the memory is not something perceptible in their joint environment. Or they can jointly attend to a poem they have memorized, or an imperceptible subject such as an algebraic identity. In cases like these, classic joint attention is extended by means of the cognitive operation of blending.

Blending is a cornerstone in the theory of conceptual integration presented in Fauconnier and Turner (2002) and numerous other publications. The idea is that information from different conceptual arrays ('mental spaces') is combined ('blended') into one mental space ('the blend') where the information is compressed so as to be more manageable for the human mind. By way of illustration, consider the following example:¹

(1) Here is our political correspondent with the details.²

The formula 'here is X with Y' is ubiquitous in news broadcasts, but what exactly does *here* mean? To begin with, from the audience's point of view, the news anchor's desk is firmly a 'there'. In addition, in the typical television news broadcasts, the anchor's presentation is commonly supplemented with simultaneous live or prerecorded (formerly live) video clips and perhaps one or more news streams at the edge of the screen. For instance, in the following example, the TV screen includes three persons in different locations talking to each other, accompanied by a news stream at the edge of the screen:

(2) Joining me now, Scott Rasmussen, president of rasmussenreports.com and author of The People's Money. Also, Chris Stirewalt, our Fox News digital politics editor and host of Power Play on foxnews.com. Alright, guys, thank you both so much for being here.³

For the audience, there just is no shared 'here'. Furthermore, to the extent that collateral material makes reference to different time frames, whether labeled 'live' or 'prerecorded', the audience's experience of a shared 'now' is compromised.

Seen from the analyst's point of view, the decoder of such a news broadcast is faced with multiple, shifting 'theres' and alternating, possibly indeterminate 'nows'. In the aggregate, such experiences may go beyond the capacity of many viewers. But viewers are not genetically disposed to throw in the towel. Rather, they are disposed to make the most of what there is. The cognitive act that allows viewers to cope with this complex experience, we sug-



¹Examples from TV network news explored in the present study are excerpted from the NewsScape Library of International Television News, a unit of the University of California Library. It is a searchable but not yet public online database (http://tvnews.library.ucla.edu, authentication required). After each example from TV network news we provide a link to a webpage where the reader can watch the relevant video clips. For the convenience of the reader, throughout the article the relevant deictic words in numbered examples are italicized. All the video clip links were last accessed in November 2012.

²http://vrnewsscape.ucla.edu/mind/2012-05-17_Popcorn.html.

http://vrnewsscape.ucla.edu/mind/2012-05-17_Popcorn.html.

gest, is that they create a mental space (a blend) where they counterfactually share a 'here' and 'now' with the people on the TV screen. This blended space incorporates information from a number of mental spaces, including our knowledge about classical joint attention, TV technology, studio environment, reporters in the field and reported events. We refer to this as 'blended joint attention'. It is important to notice that viewers are not deluded; we know that we do not really share a 'here' and 'now' with the people on the screen. However, blended joint attention enables the viewers to make sense of the newscasts—including the seemingly confusing use of deictic words. It is an open question how much of this scene of blended joint attention needs to be learned by children. Martha McClintock, a psychologist, reports (personal communication) that when as a child she first saw television with her mother at a neighbor's house, and her mother told her it was time to go home, Martha responded that they could not because it would be rude to leave while "they are talking to us".

Before we leave blended joint attention, it is important to point out that TV is not unique in creating situations that deviate from classic joint attention. A case in point is personal correspondence, when someone reads a personal letter from someone else. Of course, this is not a scene of classic joint attention, but it draws on the joint attention scene to structure the thought and action. Recanati (1995) analyzes grammatical constructions that arise in this scene of blended joint attention, such as a special use of the present tense, which he calls 'the epistolary present'. The epistolary present is a prompt to blend two quite different moments of action (one person writing, one person reading) to a blended present, as in *I have your request before me and you have my answer before you*. This is a standard form of time compression. In the blend, writer and reader are both present. Outside the blend, they are not.

An equally familiar scene of blended joint attention is a phone conversation. Imagine two people in different rooms of a high-rise building looking out the windows at something happening in the landscape while they talk on the telephone. Some deictics survive, such as *here's trouble*, meaning something like 'I see in the scene something that I evaluate as trouble and by saying so I expect that you will be able by inference to locate in the scene what I am referring to, even though I am not otherwise going to direct you to it'. But other deictics do not survive. If the second speaker sees two possible candidates for the referent, s/he cannot intelligibly respond, while pointing, *do you mean this one or that one?* Nor, if s/he did, could the first speaker respond, *this one*, absent something in the scene (such as a distinctive movement) that would allow the second speaker to infer the referent.

The cognitive operation of blending provides a valuable tool for the analysis of phone conversations, personal letters and TV broadcasts as examples of blended joint attention. In Sect. 7, we will address the use of deictic words in blended joint attention in TV news. However, first we need to explore deictic words in 'normal' discourse. This is the topic of Sects. 3–6.

3 Space words: zdes' 'here' and tut 'here'

Although both *zdes*' and *tut* can be glossed as 'here', these words are not used interchangeably in all contexts. We argue that even though their meanings can be analyzed in terms of one and the same radial category network, the two words display different radial category profiles, since they have different centers of gravity in the network.

In order to investigate the use of *zdes'*, *tut* and the three other Russian deictic words under scrutiny in the present article, we created five databases, one for each deictic word. Each database contains 150 examples from the modern (post 1950) subcorpus of the Russian



National Corpus (RNC).⁴ In order to avoid skewed data, each database is a random sample and contains only one example per document (novel, short story, newspaper article, etc.).

There is a long tradition in general and in Slavic linguistics in particular for describing the semantics of grammatical affixes and function words in terms of abstract invariant meanings (cf., e.g., Jakobson 1936). While we do not exclude the relevance of invariant meanings, which can be accommodated as abstract schemas (cf. Langacker 2008), we agree with Wierzbicka (1980), who argues that abstract invariant meanings have limited informative value. We therefore follow common practice in cognitive linguistics, according to which meanings are described in terms of category networks ('radial categories', Lakoff 1987). A radial category may be organized around one or more central subcategories ('prototypes') that are related to the remaining subcategories via extension relationships such as metaphor and metonymy.

While more fine-grained analysis is possible, we divide the meanings of *zdes*' and *tut* into four subcategories; this is sufficient for the purposes of the present study. First of all, both words are used to locate a place in physical space. Examples from our databases include the following, where *zdes*' and *tut* can be paraphrased as *v ėtom meste* 'at this location':

- (3) Da i snega byvaet *zdes*' men'še, čem v listvennom lesu [...].

 'And *there* is also less snow here than in a deciduous forest.'

 (E. Lapina. I načalo vse rasti i raspuskat'sja. *Nauka i žizn*'. 2007)
- (4) Zatem, sobstvenno, on i prixodil sjuda, čtoby ėto uslyšat', i bol'še u nego nikakix *tut* ne bylo del [...].
 - 'In the meantime he actually did come here in order to hear it, but he didn't have any other business *here*.' (G. Vladimov. *Vernyj Ruslan*. 1963–1965)

However, quite often zdes' and tut refer to the whole situation in a broader sense, including both the physical location and other circumstances. In (5), for instance, we are dealing with a symptom, which is not connected to a physical location, but rather characteristic of a particular situation. In the same way, tut in (6) can be paraphrased as v $\dot{e}toj$ situacii 'in this situation', rather than as v $\dot{e}tom$ meste 'at this location':

- (5) Veduščij simptom *zdes*'—narušenie obščej i rečevoj aktivnosti [...].
 'The main symptom *here* is disruption of general and speech ability.'
 (N. Sergeeva. Ljubov'ju i volej roždennoe slovo. *Semejnyj doktor*. 2002.09.15)
- (6) Tut pomožet vse, čto priučaet organizm k pogodnym kaprizam,—prežde vsego kontrastnyj duš.
 - 'Everything that can make the body become accustomed to weather instability, in particular alternating cold and hot showers, will help *here*.'
 - (A. Žukov. Atmosfernyj nevroz. Semejnyj doktor. 2002.10.15)

There are also examples where *zdes*' and *tut* refer to a 'place' in a text, or in general are used for the purpose of discourse management. Examples (7) and (8) illustrate this:

(7) Ona imenovalas', byt' možet, neskol'ko vitievato—"Fiziko-ximičeskaja biologija i problemy medicinskoj ėnzimologii", i nedel'naja programma ee postepenno

⁴The Russian National Corpus (RNC) is available at www.ruscorpora.ru. Unless otherwise indicated, all numbered examples in Sects. 3 through 6 of the present study are culled from the RNC.



raskručivala krug voprosov ot prostyx belok-lipidnyx vzaimodejstvij molekul do medicinskix problem reguljacii obmena v norme i pri patologii. Vpročem, umesten li *zdes*' ėpitet "prostye"?

'It was called, perhaps rather ornately "Physio-chemical biology and problems of medical enzymology", and the weekly program gradually developed a series of questions from simple protein-lipid molecular interactions to medical problems of regulating metabolism in normal and pathological situations. However, is the epithet "simple" appropriate *here*?'

(O. Gomazkov. Modeli, konstanty i logika žizni. *Znanie—sila*. 1988)

(8) [...] MKA ves'ma izmenčivy, i v 1987 godu Edel'man vyskazal predpoloženie, čto sistema adaptivnogo immuniteta razvilas' v ėvoljucii iz sistemy izbiratel'noj adgezii. *Tut* stoit dobavit', čto izbiratel'naja adgezija kletok nabljudaetsja povsjudu. 'Monoclonal antibodies are very unstable, and in 1987 Edelman suggested that the

Monoclonal antibodies are very unstable, and in 1987 Edelman suggested that the adaptive immunity system was developed via evolution from the selective adhesion system. *Here* it is necessary to add that the selective adhesion of cells is observed universally.'

(Ju. Čajkovskij. Jubelej Lamarka—Darvina i revoljucija v immunologii.

Nauka i žizn'. 2009)

Although both *zdes*' and *tut* are used with spatial meanings, it has been suggested in the literature that "[o]nly *tut* is regularly used as a temporal deictic" (Grenoble 1998, p. 109). Our data is in accord with this view; we have found temporal examples like (9) with *tut*, but no corresponding examples with *zdes*'.

(9) Vot ja za stolom, otodvigaju jaščik [...] i tut zamečaju na stole anketu.
'So I am sitting at my desk and I open the drawer and here I notice a questionnaire on the desk.'
(N. Baranskaja. Nedelja kak nedelja. 1969)

The radial category network in Fig. 1 relates the four meanings described above. The upper left circle represents the concrete spatial meaning, while the more abstract meanings labeled 'situation' and 'discourse' are placed to the right. The temporal meaning is placed below the other subcategories, since time represents a domain that is quite different from space, although the two domains are often analyzed as metaphorically related—a fact we return to in Sect. 4, where we will use Mel'čuk's (1985) label 'S4' for the relevant temporal meaning.

Even though *zdes*' and *tut* have overlapping distributions, they are not equally frequent in all subcategories. Table 1 summarizes the distributions of the two deictic words across

Fig. 1 Radial category network for *zdes*' and *tut*. Shading patterns represent centers of gravity (ascending diagonal = *zdes*', descending diagonal = *tut*)

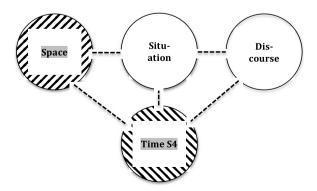
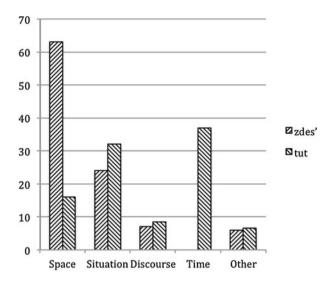




Table 1 Radial category profiles for *zdes*' and *tut*

	# zdes'	# tut	% zdes'	% tut
Space	95	24	63	16
Situation	36	48	24	32
Discourse	10	13	7	8.5
Time	0	55	0	37
Other	9	10	6	6.5
Total	150	150	100	100

Fig. 2 Radial category profiles for *zdes*' and *tut*



the four subcategories shown in Fig. 1. (The table also includes a category 'other', which contains a small number of examples that are not easily assigned to any of the four subcategories in Fig. 1.) The data are from our random samples of 150 examples from the RNC. The table includes both raw numbers (columns marked with the # sign) and percentages; the percentages are visualized in the bar diagram in Fig. 2.

We refer to a word's frequency distribution across the subcategories of a radial category network as the 'radial category profile' of the word (cf. Nesset et al. 2011; Nesset 2012). Table 1 and Fig. 2 show that *zdes*' and *tut* have overlapping, but nevertheless different radial category profiles. While for both words the subcategory 'situation' is quite frequent (24 % for *zdes*' and 32 % for *tut*), *zdes*' has the subcategory physical space as its center of gravity, while *tut* gravitates towards temporal reference. In order to capture the differences between *zdes*' and *tut* in Fig. 1, we use the same shading patterns as in Fig. 2; ascending diagonal lines represent the center of gravity of *zdes*', while the center of gravity of *tut* is marked by descending diagonal lines. A simple statistical test shows that the differences observed in Table 1 are statistically significant and that the effect size is large.⁵ Despite the

 $^{^5}$ We performed Pearson's chi-squared test (X-squared = 99.5196, df = 4), which gave p-value < 2.2e-16, i.e. the number $0 \dots 22$ with fifteen zeros before 22. The p-value measures the likelihood that the observed differences could be due to chance. Since 2.2e-16 is the smallest number the stastitics software package R operates with, for all practical purposes the likelihood that the observed differences could be due to chance is zero. Although an observed difference is not likely to be due to chance, this does not necessary mean that



overlap, therefore, there is no doubt that the radial category profiles of *zdes*' and *tut* are really different.

We argue that radial category profiling provides a precise account of the meanings and use of *zdes*' and *tut*. A simple radial category network shows whether a word is attested or not in a given subcategory. The method of radial category profiling in addition brings out the relative strengths of the relevant subcategories, and thus facilitates a more fine-grained analysis, which is particularly fruitful when we are dealing with words with closely related meanings, such as *zdes*' and *tut*. An additional benefit of radial category profiling is the fact that the differences can be quantified and hence subjected to statistical testing.

4 Time words: sejčas 'now', teper' 'now' and tut 'here / now'

In the previous section, we saw that *tut* is used for both spatial and temporal reference. In what follows, we offer a more detailed discussion of temporal deixis, and demonstrate that the radial category profile of *tut* differs from those of *sejčas* and *teper'*, which can both be glossed as 'now'. Time is often analyzed as a metaphorical extension from space (cf., e.g., Haspelmath 1997). Although we do not dispute the basic insight behind the TIME IS SPACE metaphor, our analysis shows that temporal deixis is not a mere mirror image of spatial deixis.

In his prize-winning book *Počemu jazyki takie raznye*, an introduction to linguistics for young adults, V. A. Plungjan (2010, p. 5) uses *sejčas* and *teper*' as examples of words that on the face of it seem to be completely synonymous, but nevertheless are not used interchangeably in all contexts. In fact, one sentence may contain both words, as in *a teper' ja edu sejčas* 'but now I'm leaving immediately' from Tolstoj's *War and Peace*.⁶ Exploring the subtle semantic differences among temporal deictic words, we take a taxonomy from Mel'čuk (1985) as our starting point. In his analysis of *sejčas*, Mel'čuk (1985) considers four meanings, which he labels S1–4. The first of these meanings, S1, involves situations that coincide or overlap with the moment of speech (Mel'čuk 1985, p. 261). We suggest distinguishing between two subtypes, one where we are dealing with an event happening 'right now', i.e. coinciding with the moment of speech, and one with a somewhat broader temporal reference, where we are dealing with events that take place 'nowadays'. Examples of the first subtype are (10), (11) and (12). In all these examples the relevant situations coincide with the moment of speech, and 'now' may be paraphrased as 'right now'.⁷

- (10) A sejčas mne nužno dopisať vot ėto.'And now I have to finish writing this thing.'(V. Šukšin. Lelja Selezneva s fakul'teta žurnalistiki. 1958)
- (11) [E]sli čast' [...] kapel' tokom vozduxa zanositsja vyše [...], to nekotorye iz nix mogut zamerznut' i stat' zarodyšami gradin. *Teper*' jasno, čto razmer gradin budet zaviset' ot koncentracii zamerzajuščix kapelek.

⁷It is worth pointing out that tut is very often followed by the particle ξe , which, as argued by Rakhilina and Letuchiy (2012), emphasizes that the event in question takes place right after another event, i.e., is part of a chain of consecutive events.



the relevant factors have a large impact, i.e., that the effect size is large. In order to investigate the effect size of the factors involved in Table 1, we computed a Cramer's V value. R provided a Cramer's V value = 0.6, which is considered a large effect size (King and Minium 2008, pp. 327-329).

⁶The authors would like to thank Stephen M. Dickey for drawing our attention to this example.

'If some of the droplets are carried upward by a stream of air, then some of them can freeze and become cores for hailstones. *Now* it is clear that the size of hailstones will depend on the density of the freezing droplets.'

(M. Nazirov. Na granice oxranjaemogo rajona vypal grad... Ximija i žizn'. 1969)

(12) [P]oloža ruku na serdce, *tut že* prixoditsja peremeščať ee vmeste so vtoroj za golovu: priznať čto-to iz pokazannogo v Ėksperimental'noj šedevrom, a kogo-libo iz avtorov geniem—zatrudnitel'no.

'When you want to be honest, *then* you have to think carefully: it is difficult to accept any of the works in the Experimental program as a masterpiece and any of the artists as a genius.'

(Po toržestvennym dnjam? *Teatral'naja žizn'*. 2003.11.24)

Examples (13)–(14), on the other hand, involve reference to a broader time span overlapping with the moment of speech. In these examples, 'now' means 'nowadays'. This subtype is not attested for tut in our database.

- (13) —Smelee nado myslit'! *Sejčas* vse sozdajut rok-gruppy. Vot i my svoju sozdadim. 'We need to think more boldly! Everyone is setting up rock groups *these days*. Let's set up one ourselves.' (Zapis' *LiveJournal*. 2004)
- (14) *Teper*' v ljuboj točke zemnogo šara možno rabotat' nad ėtimi faksimile, ranee dostupnymi tol'ko v arxivax Puškinskogo Doma.
 - '*Now* it is possible to work on these facsimiles anywhere in the world. Previously they were available only in the archives of the Puškinskij dom.'

(Ju. Kantor. A. Margolis. Duša Peterburga—v protivostojanii povsednevnosti. *Izvestija*. 2001.09.04)

The second subtype recognized in Mel'čuk's (1985, p. 264) taxonomy, S2, involves reference to a point in time following the moment of speech. In (15)–(17), for example, the deictic words may be paraphrased as 'in a moment':⁸

(15) Ja vam sejčas rasskažu o tom, čto že slučilos' s nami. 'Now I am going to tell you about what happened to us.'

(E. Radov. Zmeesos. 2003)

(16) Filipp posmotrel na nix i skazal:—Idite na dvor! [...]—*Teper'* pogovorim o gosudarstvennyx delax,—vzdoxnul korol'.

'Philippe looked at them and said: Go outside! *Now* let's talk about state issues, sighed the king.' (A. P. Ladinskij. *Anna Jaroslavna—koroleva Francii*. 1960)

'Now we are going to drink tea.'

(V. F. Panova. Volodja. 1959)

⁽A. Kuraev. Ugrozy s vozduxa i iz kosmosa rastut, odnako okončatel'nyj oblik edinoj kompleksnoj sistemy PVO-PRO poka ne opredelen. Vozdušno-kosmičeskaja oborona. 2004.02.15)



⁸Note in passing that word order is of relevance in sentences like (15)–(17). In (15), for instance, *sejčas* could be replaced by *teper*', but only if *teper*' was placed in sentence-initial position (*teper*' *ja vam rasskažu*). Sentences (15)–(17) involve perfective verbs, but imperfective verbs are also attested in examples of this type:

⁽i) Sejčas budem čaj pit'.

⁽ii) Dal'nejšie rezul'taty teper' budut opredeljat'sja itogami raboty komissii.

^{&#}x27;Future results will now be determined based on the conclusions of the committee's work.'

(17) Sev na voditel'skoe mesto, vstav'te ključ v zamok zažiganija i *tut že* ego vytaščite. 'After sitting in the driver's seat, place the key in the ignition and *then* remove it again *immediately*.'

(A. Timofeev. *Toyota Corolla* \$8000 (gody vypuska—1997–2000). *Avtopilot*. 2002.09.15)

Mel'čuk (1985, p. 267) provides examples where *sejčas* refers to a time just before the moment of speech, S3. We did not find any examples of this type in our databases, but examples like (18) with *sejčas* are attested in the RNC. However, we have not been able to find parallel examples with *teper*' or *tut*.

(18) Nado sprosit' u togo, s kem ja sejčas razgovarivala... 'We should ask the person I was just talking to...'

> (L. Ulickaja. Kazus Kukockogo [Putešestvie v sed'muju storonu sveta]. *Novyj Mir.* 2000)

Constructions with a perfective verb in the past tense plus *sejčas* and *teper'* represent an interesting borderline case between S1 (reference to the moment of speech) and S3 (reference to a moment before the moment of speech). On the one hand, such verbs describe an event in the past, but at the same time they involve a resultant state that overlaps with the moment of speech. In (19), for instance, *uspokoilsja* 'calmed down' describes both a change of state in the past and a resultant state (to be calm) in the present.

(19) Sejčas uže uspokoilsja. No snačala dumal, čto sojdet c uma ot radosti.

'Now he has calmed down. But at first he thought that he would go mad with joy.'

(Kollekcija anekdotov: razvod. 1970–2000)

In the same way, in (20) složilas' 'was formed' at the same time denotes a change of state in the past and a resultant state in the present.

(20) [E]sli trebovanijam pervogo varianta zakonoproekta sootvetstvovala dobraja polovina kompanij [...], to teper' složilas' prjamo protivopoložnaja situacija. 'If a good half of the companies were in compliance with the requirements of the first version of the law, now the situation has changed.'

(L. Kučina. K pensionnym den'gam dopustjat izbrannyx. POLITKOM.RU. 2003.06.23)

We assign sentences like (19) and (20) to the S1 subtype, since *sejčas* and *teper*' refer to the resultant state, rather than the event that created this state (cf. Mel'čuk 1985 and Padučeva 1996, p. 271 for discussion). In (19), for instance, *sejčas* in *sejčas* on *uspokoilsja* 'he has calmed down now' may be paraphrased as *sejčas* on *spokoen* 'he is calm now', where *sejčas* refers to a state described by an adjective, which encodes no information about any preceding events in the past tense.

Mel'čuk (1985, p. 267) characterizes the temporal reference in his fourth subcategory, S4, as follows: "[v] dannyj moment, imevšij mesto v prošlom, no predstavljaemyj govorjaščim kak moment reči" 'at a moment in the past, but experienced by the speaker as the moment of speaking'. By way of example, consider (21):

(21) Vse, čto govoril *sejčas* Zurab, Sergeju kazalos' estestvennym [...].

'Everything that Zurab was saying *now*, seemed natural to Sergej.'

(F. Iskander. *Morskoj skorpion*. 1977)



The past tense form *govoril* 'said' indicates that we are dealing with an event in the past. At the same time, the use of *sejčas* 'now' describes this event as if it were unfolding at the moment of speech. We analyze this as a 'deictic shift' whereby in the mind of the speaker and the addressee the deictic center ('here and now') is moved back in time. The effect is a more vivid presentation of events in the past, since through the deictic shift they are more closely connected to the present. Deictic shifts of this type are attested for *teper*' and *tut* as well, as shown in (22) and (23):

- (22) Tam stojali bol'šie navesy, gde kogda-to sušili kirpič. *Teper*' oni byli pustymi [...]. 'There stood some large sheds, where bricks had previously been dried. *Now* they were empty.' (V. V. Šul'gin. *Poslednij očevidec*. 1971)
- (23) Soobščalos', čto teper' na territorii Rossii zapretjat pol'zovat'sja latinskim alfavitom (*tut* nevol'no vspominalsja nekij major Šestakov, ob''javivšij [...], čto Solženicynu oficial'no zapreščeno pisat').
 - 'It was reported that the use of the Latin alphabet would be prohibited on Russian territory (at this point we are reminded of mayor Šestakov, who announced that Solženicyn was officially forbidden to write).'

(A. D. Šmelev. Voprosy jazykoznanija v Gosudarstvennoj dume. Otečestvennye zapiski. 2003)

In a sense, the deictic shift construction in (21)–(23) is the mirror image of the so-called historical present (*praesens historicum*). Whereas in (21)–(23) a verb in the past tense cooccurs with a deictic word referring to the present, in the historical present a verb in the present tense combines with deictic elements such as togda 'then', which indicate that the event took place in the past. Another construction involving a conflict between the verbal tense and the meaning of a deictic element is the zavtra + past tense construction investigated by Chernova (2010):

(24) Zavtra oni uezžali iz Tegerana.

'The following day they were leaving Teheran.'

(Ju. N. Tynjanov. Smert' Vazir-Muxtara. 1928)

However, rather than involving a deictic shift, examples like (24) prompt a reinterpretation of the deictic word; *zavtra* receives the meaning 'the day after (an event in the past)' instead of its normal meaning 'tomorrow'.

Parallels for the deictic shift construction exist in other languages. Nikiforidou (2010, 2012) investigates English examples like *the silence of a cold windless night was all he heard now*, where the deictic word *now* combines with a past tense verb. Nikiforidou (2012, p. 180) presciently comments that the past + *now* pattern has "an effect of zooming in on the events". Interestingly, when occurring in TV news broadcasts the past + *now* construction is often supported by a zooming in by the camera, as in the following clip from the Communication Studies Archive at the University of California:

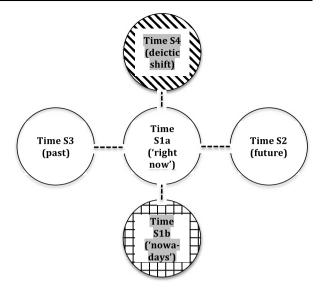
(25) I now saw that Johnson was continuing the pattern of presidential lying.⁹

In Fig. 3 we propose a radial category network for the temporal meanings of *sejčas*, *teper'* and *tut*. Comparing the networks in Figs. 1 and 3, we are in a position to comment on the TIME IS SPACE metaphor mentioned at the beginning of this section. The basic insight in



⁹http://vrnewsscape.ucla.edu/mind/2012-05-17_Popcorn.html.

Fig. 3 Radial category network for *sejčas*, *teper*' and *tut*. Shading patterns represent centers of gravity (descending diagonal = *tut*, horizontal = *sejčas*, vertical = *teper*')



the metaphorical approach to time and space is that in thinking and speaking about the abstract domain of time we draw on our knowledge about the more concrete domain of space. Our analysis of deixis supports this. The spatial deictic word *tut* is quite frequently used in temporal deixis, suggesting a close relationship between the domains of time and space. Additionally, the concept of locating events as prior to, simultaneous with and posterior to the moment of speech plays an important role in our analysis of temporal deictic words. Since 'location' is clearly a spatial notion, this way of conceptualizing time is spatial, and hence metaphorical in nature. At the same time, our analysis does not indicate that temporal deixis is a mere mirror image of spatial deixis in our conceptualization, insofar as the temporal network in Fig. 3 is quite different from the (primarily) spatial network in Fig. 1. In this way, our analysis resonates with the ideas of space-time asymmetries in Nesset (2011) and Makarova and Nesset (this volume, see also Kuznetsova et al. this volume; Plungian and Rakhilina this volume).

Table 2 and Fig. 4 show the frequency distribution of the three deictic words across the five submeanings in the radial category network. Two conclusions can be drawn from Table 2 and Fig. 4. Firstly, the radial category profile of *tut* is quite different from that of *sejčas* and *teper*'; while *tut* gravitates towards the deictic shift construction (S4), *sejčas* and *teper*' occur most frequently in the S1b 'nowadays' subcategory. Secondly, the radial category profiles of *sejčas* and *teper*' are quite similar. ¹⁰ The question therefore arises as to whether it is possible to tease apart the differences between *sejčas* and *teper*'. We address this question in Sect. 5.

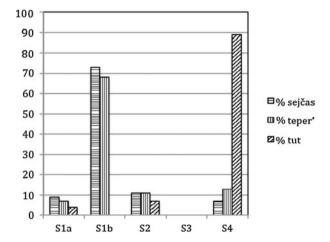
 $^{^{10}}$ These conclusions are corroborated by statistical test. Comparison of the numbers for $sej\check{c}as$ and teper' on the one hand and tut on the other reveals that the observed differences are statistically highly significant: Pearson's chi-squared test (X-squared = 167.4934, df = 2) gave p-value < 2.2e-16. The effect size is large: Cramer's V-value = 0.7. Comparison of the numbers for $sej\check{c}as$ and teper', on the other hand, shows that the differences between these two deictic words are not statistically significant: Pearson's chi-squared test (X-squared = 3.0945, df = 3) p-value = 0.3773. Notice that for the purposes of statistical analysis we did not distinguish between subcategories S1a and S1b, and that we did not include S3 in the analysis, since this subcategory is not attested in our databases.



Table 2 Radial category profiles for temporal deixis with *sejčas*, *teper*' and *tut*

	# sejčas	# teper'	# tut	% sejčas	% teper'	% tut
S1a 'now'	13	11	2	9	7.3	4
S1b 'nowadays'	109	102	0	73	68	0
S2 (future)	17	17	4	11	11.3	7
S3 (past)	0	0	0	0	0	0
S4 (deictic shift)	11	20	49	7	13.3	89
Total	150	150	55	100	100	100

Fig. 4 Radial category profiles for temporal deixis with *sejčas*, *teper*' and *tut*



5 More on time words: contrast vs. no contrast

It has often been suggested in the literature that *teper*' and *sejčas* are different in that the meaning of *teper*', but not *sejčas* involves a contrast (cf., e.g., Grenoble 1998, p. 102; Mel'čuk 1985, p. 270). In this section, we present empirical evidence from the RNC in favor of this analysis. However, we show that the relevant contrast is not always primarily temporal, but may also involve modality and specificity.

Let us first look at a typical example where *teper*' is used to describe a contrast between what is going on 'now' and what took place *ran'še* 'earlier':

(26) Ran'še na stancii gorel prožektor, svetilis' okna. *Teper*' vse pogruzilos' vo mrak. 'Previously there was a searchlight blazing at the station and the windows were lit. *Now* everything is plunged in darkness.' (V. Peskov. *Zimovka*. 1983–1984)

While contrasts between two temporal planes are typical for sentences with *teper*', our databases also contain examples with *sejčas* in contexts involving temporal contrast:

(27) *Sejčas* mnogie iz nac molčat, i nikto ne obraščaet na ėto vnimanija. *A v prežnie vremena* nas beregli, ljubili i uvažali [...].

'Now many of us are silent and no one pays any attention to that. But in previous times we were taken care of, loved, and respected.'

(A. Jasova. Živoj golos kolokola. *Tramvaj* 1990)



However, more frequently *sejčas* occurs in contexts where no such contrast is present. In (13), which is repeated as (28) below, for instance, the fact that "everybody forms rock groups nowadays" is not explicitly compared to earlier times:

(28) —Smelee nado myslit'! *Sejčas* vse sozdajut rok-gruppy. Vot i my svoju sozdadim. 'We need to think more boldly! Everyone is setting up rock groups *these days*. Let's set up one ourselves.' (Zapis' *LiveJournal*. 2004)

We have three attestations of *teper*' in non-contrastive contexts; (29) is illustrative:

(29) My často *teper*' slyšim, čto v nedavnem prošlom kto-to komu-to ne pomogal [...]. 'We often hear *now* that not so long ago someone failed to help someone else.'

(My vse zavisimy drug ot druga. Žizn' nacional'nostej. 2002.06.05)

Returning to examples involving a contrast, we mentioned above that such contrasts are not necessarily purely temporal, although temporal contrasts are most frequent in our databases. Consider (30), where *teper'* is used in a conditional construction in the subjunctive mood:

(30) Esli by ošibki ne slučilos', on polučil by 15 očkov, odnako *teper*' ėti očki pripisyvajutsja soperniku.

'If no mistake had been made, he would have gotten 15 points, however *now* those points go to his opponent.'

(B. Rudenko. Partija "pjat' šarov". Nauka i žizn'. 2007)

The contrast in (30) is modal rather than temporal, insofar as we are dealing with a comparison between a hypothetical situation, where no mistakes were made, and the real situation, which involves a number of mistakes. Sentence (31) shows that *sejčas* is also attested in similar contexts, although this sentence is not in the subjunctive.

(31) [E]sli *sejčas* ne vytaščit' Moskvu iz finansovogo bolota, skoro v nem mogut okazat'sja i drugie evropejskie strany.

'If Moscow is not extricated from the financial swamp *now*, soon other European countries will be in it.'

(A. Medin. Zapad pytaetsja vytaščit' Rossiju. Večernjaja Moskva. 1998)

Example (31) illustrates that there is no clear-cut boundary between temporal and modal contrasts since in (31) a contrast between what is going on now and a future situation is also present.

Example (32) emphasizes a contrast between a general state of affairs and the specific situation occurring 'now':

(32) Literatura, iskusstvo, vospominanija molodosti, svetskie spletni—vot byl krug ix vsegdašnix razgovorov. *Teper*' oni tolkovali o šljapkax [...].

'Literature, art, memories of youth and celebrity gossip—these were the contents of their constant conversations. *Now* they were discussing hats.'

(L. Ulickaja. *Gulja*. 1993)

The context provides a list of topics of conversation that includes *svetskie spletni* 'celebrity gossip'. *Teper'* introduces a sentence that describes the current topic of conversation, namely hats, which can be considered a specific instance of the general term *svetskie spletni*. Here we are dealing with an arguably temporal opposition between 'usually' (i.e., habitual) and 'now' (i.e., actual) and a contrast between a general term and a specific instance.



'Here' and 'now' in Russian and English

Table 3 Contrastive vs. non-contrastive uses of *sejčas* and *teper*'

	# Contrast	# No contrast	% Contrast	% No contrast
sejčas	30	120	20	80
teper'	147	3	98	2

Table 3 describes the relative distribution of contrastive and non-contrastive uses of *teper*' and *sejčas*. Our data lend strong support to the idea that *teper*' involves a temporal or other contrast. *Sejčas*, on the other hand, gravitates towards non-contrastive use. We conclude that the two temporal deictic words have quite different radial category profiles.

6 Vot: pointing and joint attention

The deictic element *vot* has received considerable attention in the scholarly literature (cf. e.g. Grønn 1999; Nikolaeva 1985; Grišina 2008, and references therein). In the following transcript of a video clip, where *vot* occurs 17 times in 17 seconds, *vot* is used to draw attention to the damage caused by water leaking through the ceiling of an apartment:

(33) *Vot. Vot*, smotrite, *vot* steny, *vot* oni vse, *vot* do kakix por. *Vot*, *vot* oni *vot* poly vse podnjatye. *Vot* ėto smotrite, *vot* vse. *Vot* ėto spasi v obščem ne znaju skoro i ėto goret' ne budet. Tol'ko segodnja utrom *vot*. *Vot* ona uže kapaet! *Vot* ona uže mokraja stala, *vot* ona, *vot*! Uže *vot*. ¹¹

'Look. Here, you see, look at the walls, here they all are, look how much. Look, look, all these floors are buckled up. Here look at this, all this here. Look at this, heavens, in general I don't know and it won't be working. This happened just this morning. See it is dripping already! See it has gotten wet already, look at it, look! See already.'

Although *vot* fulfills a variety of functions in this discourse, it seems fair to say that it prototypically serves as the verbal equivalent of the pointing gesture. ¹² In the following, we will adopt a simple classification. While our classification does not do *vot* full justice, it is sufficient to shed light on similarities and differences between *vot* and other deictic elements—which is the main objective of the present study.

As the linguistic equivalent of the pointing gesture, *vot* arguably incorporates spatial and temporal deixis in one lexical item; by 'pointing' at the damaged parts of the apartment in (33) *vot* indicates that this damage is relevant both 'here' and 'now'. Sentence (34) is a corpus example where *vot* is used to draw attention to a concrete, physical object in the deictic situation, in this case a fur hat:

(34) *Vot* šapka-ušanka iz olen'ego mexa ot kolxoznicy [...].

'Here is a fur hat made from deer presented by the kolkhoz worker.'

(G. Kamenskaja. Deduška Kalinin. Gorizont. 1989)

Vot is also used to point at a location in space, typically co-occurring with *tut* as in (35). However, the second occurrence of *vot* in (35) shows that *tut* is not obligatory in such contexts:

(35) Vot tut u berezy ja sebe postavlju dom. I vot s ėtogo boku krylečko.

'Here by the birch tree I will build myself a house. And here on this side a porch.'

(F. Knorre. Rodnaja krov'. 1962)

¹²The relationship between deictic words and gesture has recently been studied in great detail by Talmy (2011).



¹¹ http://vrnewsscape.ucla.edu/mind/2012-05-17_Popcorn.html.

Sentence (36) illustrates the temporal use of *vot*; in this sentence *vot* has approximately the same function as the temporal conjunction *kogda* 'when':

(36) Vot ono ujdet, kto o nem budet govorit'?

'Now it will disappear, and who is going to talk about it?'

(G. Xabarov. Smes' francuzskogo s krasnojarskim. Soveršenno sekretno. 2003.07.07)

In its temporal use, *vot* sometimes co-occurs with temporal adverbials, such as *snova* 'again' in (37):

(37) *I vot snova* takaja že, esli ešče ne bolee žestkaja situacija [...]. '*And here again* is a similar, if not even more extreme situation.'

(Ė. Klimova. Starikam vse—v poslednjuju očered'. Vostočno-Sibirskaja Pravda (Irkutsk). 1998.07.11)

An important function of *vot* is discourse management; metaphorically speaking, *vot* 'points' at a part of discourse. In (38), for instance, *vot* introduces direct speech:

(38) *Vot* mnenie upravljajuščego partnera [...] kompanii "FBK" [...]: "Vozmožnym posledstviem [...] stanet integracija kompanij [...]".

'Here is the opinion of the director of the company "FBK": A possible outcome is a merger of the companies.'

(A. Andreev. Tolstye i tonkie. Novyj zakon izmenit strukturu rynka auditorskix uslug. *Izvestija*. 2001.08.28)

In (39), on the other hand, vot draws attention to the completion of direct speech.

(39) Ty dura neobrazovannaja, *vot čto* ja tebe skažu.

'You are an uneducated fool, that's what I have to say to you.'

(E. Xaeckaja. Xal'dor iz svetlogo goroda. 1997)

Vot can also be used to signal that one is returning to a topic previously discussed:

(40) *Tak vot*, v bol'šom vremeni ničto i nikogda ne utračivaet svoego značenija. '*So* in the long run nothing ever loses its significance.'

(M. M. Baxtin. O polifoničnosti romanov Dostoevskogo. 1971)

In (41), *vot* (in combination with *ili* 'or') draws attention to the change of topic, whereas in (42) *vot* points to the example following it:

(41) I tak srazu za pjat' kursov. *Ili vot*. Sidjat prijateli, vypivajut. 'And do it this way for all five years. *And here's another one*. Some friends are sitting and drinking.'

(K. Metelica. Šutki moskvičej, xorošie i raznye. *Stolica*. 1997.12.22)

(42) —Rasskažite, kakoj byl mikroklimat v komande.—Na moj vzgljad, zamečatel'nyj! Xotja, konečno, nado rassprosit' rebjat! *Vot* Saša Moiseenko, *naprimer*, govoril, budto ja ob''javljal sostav prokurorskim tonom, ne terpjaščim vozraženij.

'—Tell me what the atmosphere was like in the team.—In my opinion, it was great! But you'd better ask the guys! Saša Moiseenko *here*, *for example*, said that I was announcing the lineup like a prosecutor with no tolerance for objections.'

(O. Aleksandrova. Zadaču-maksimum ozvučil posle matča s Rossiej. 64—Šaxmatnoe obozrenie. 2004.11.15)



'Here' and 'now' in Russian and English

Table 4	Radial category profile
for vot	

	# Examples	% Examples
Deictic situation (e.g. example (34))	25	16.5
Space (e.g. example (35))	4	3
Time (e.g. example (36))	24	16
Discourse (e.g. example (38))	72	48
Other	25	16.5
Total	150	100

The radial category profile of *vot* is summarized in Table 4. We distinguish between five subcategories. In addition to 'deictic situation', which encompasses examples like (34), and space, time and discourse, we include a category 'other', since *vot* is a versatile lexical item with a multitude of functions. The limitations of this classification notwithstanding, Table 4 suffices to demonstrate that *vot* gravitates toward discourse management, which accounts for nearly half the examples in our database.

7 Adapting to a new setting: discourse management in 'ordinary language' and TV news

With the analysis of *zdes'*, *tut*, *sejčas*, *teper'* and *vot* in the RNC in place, we return to the question stated in the beginning of this article, namely what happens to language when it adapts to a new setting. Our data suggest that the use of deictic words in TV news is different from other settings; in particular we show that *sejčas* is the preferred means of carrying out story segmentation under blended joint attention. We conclude that blended joint attention does not impose radical changes on language. In order to adapt to this new setting, language only needs to redistribute its existing resources very slightly. In order to capture this insight, we advance what we call the 'Minimal Adaptation Hypothesis'.

In order to investigate deictic words in TV news broadcasts, we uploaded 5.81 hours of Russian TV network news broadcasts to the NewsScape Library of International Television News at UCLA. The material was transcribed, and then annotated and analyzed manually by means of the tools available at the NewsScape Library of International Television News. We excerpted all instances where a news anchor or a reporter in the field uttered the relevant deictic words while addressing the viewers directly (i.e. looking into the camera). The resulting database consists of 102 attestations of deictic words. Table 5 and Fig. 5 summarize the distribution of the five deictic words in our TV news database. In addition, the table and figure include the frequencies of the deictic words in the modern subcorpus of the RNC, i.e., the part that covers the period after 1950. Since TV news involves oral discourse (although news anchors sometimes read prepared texts), we also included numbers from the oral subcorpus of the RNC. Although the RNC data represent numbers of a different magnitude, which makes comparison difficult, there are some striking differences that call for comment.

Firstly, Table 5 shows that each of the four deictic words *zdes*', *tut*, *sejčas* and *teper*' account for between 16 % and 18 % of the corpus data, whereas *vot* is much more frequent.

¹³We limited ourselves to situations where anchors or reporters addressed the viewers directly, since these are the situations relevant for blended joint attention.



	# RNC (post 1950)	# RNC (oral)	# TV	% RNC (post 1950)	% RNC (oral)	% TV
zdes'	91,950	18,487	21	16	11	21
tut	100,105	12,648	1	17	7	1
sejčas	98,598	32,458	34	17	19	33
teper'	102,556	9,478	2	18	5	2
vot	189,612	102,345	44	33	58	43
Total	582,821	175,416	102	100	100	100

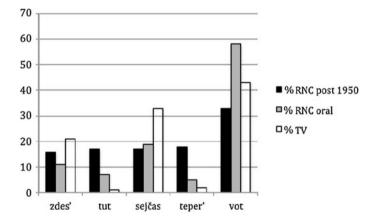


Fig. 5 Distribution of deictic words in the Russian National Corpus and in TV news

Secondly, the distribution in the TV news database is very different. Compared to the modern subcorpus of the RNC, $sej\check{c}as$ and to some extent vot are overrepresented in TV news, while tut and teper' are strongly underrepresented. Thirdly, if we compare the numbers from TV news with the oral subcorpus of the RNC, we see that tut and teper' are infrequent in both corpora, and that vot has high frequencies in both corpora. It stands to reason, therefore, that the fact that tut and teper' are underrepresented in TV news and vot is overrepresented is due to the oral genre. However, the distribution of $sej\check{c}as$ in TV news cannot be explained as an oral effect. As can be seen from Table 5, $sej\check{c}as$ represents 17 % of the examples in the modern subcorpus of the RNC and 19 % in the oral subcorpus, while the corresponding number in TV news is 33 %. Even though we are dealing with a small database for TV news, our data suggest that the use of $sej\check{c}as$ is different in TV news broadcasts.

In order to find out, we examined examples involving 'story segmentation', i.e., situations where a news anchor (or sometimes a reporter in the field) introduces an upcoming story. Story segmentation is interesting because it involves blended joint attention—the news anchor informs the viewers what comes next in the blend. Our data material from Russian news broadcasts includes fourteen clear examples. Ten of the examples contain *sejčas*, while *vot* is used in the remaining four examples. Here are two characteristic examples:



- (43) Na prjamoj svjazi iz Južnoj Osetii *sejčas* korrespondent pjatogo kanala Evgenij Lukinov. ¹⁴
 - 'Live from South Ossetia, here is Evgenij Lukinov, Channel 5 correspondent.'
- (44) *Vot* reportaž Alekseja Lazurenko iz nazemnoj i podzemnoj častej Bol'šogo teatra. ¹⁵ '*Here* is a report from Aleksej Lazurenko from the Bolshoy theater both above and below ground.'

Although our data material is limited, it seems that the conventional way to perform story segmentation in Russian TV news broadcasts involves *sejčas*. The second option, *vot*, appears to be more stylistically marked and more characteristic of improvised, rather than carefully prepared speech. A case in point is (45), which was uttered by a reporter in the field introducing the story of the eyewitnesses to the suicide bomb attack in the Domodedovo airport in January 2011. Clearly, the reporter has not had time to prepare what he is going to say, and it is natural that he uses *vot*, which as shown in Table 5 is very frequent in oral genres.

(45) I u nas est' fragmenty rasskazov tex očevidcev, kotorye v to vremja naxodilis' v zale prileta meždunarodnyx rejsov, i vot čto oni rasskazyvajut. ¹⁶ 'We also have excerpts of reports from the eyewitnesses who were in the international arrivals hall at the time and here is what they say.'

The question now arises as to why Russian prefers a temporal deictic word (*sejčas*) for the purposes of story segmentation. We argue that the Minimal Adaptation Hypothesis offers an explanation:

(46) The Minimal Adaptation Hypothesis: When applied to a new setting, language makes adaptations that are as small as possible.

In order to clarify the implications of this hypothesis for story segmentation, we need to go back to blended joint attention. In the situation of story segmentation, spatial deixis is compromised. What is 'here' for the people on the screen is in reality 'there' for the viewers. In other words, it is only in the blend that news anchors, reporters in the field and TV viewers share a 'here'. The temporal deictic center, on the other hand, is not compromised. In examples such as (43)–(45), in actual reality the viewers do share a 'now' with the people introducing a story on the screen, since we are dealing with live transmission. In view of the fact that temporal deixis involves less of a conflict between the deictic perspective of the viewers and the people on the screen, the Minimal Adaptation Hypothesis predicts temporal deixis to be preferable in story segmentation in TV news. The fact that Russian TV conventionally uses sejčas for this purpose, suggests that the Minimal Adaptation Hypothesis is on the right track.

At this point two questions arise. First of all, we must ask how the use of *vot* in examples like (44) and (45) squares with the Minimal Adaptation Hypothesis. We argue that such examples are not at variance with the hypothesis, since *vot* is not an example of purely spatial deixis. As we pointed out in Sect. 6, *vot* is the verbal equivalent of the pointing gesture and is used to draw attention to something that is relevant both 'here' and 'now'. Since the meaning of *vot* is equally relevant for time and space, we argue that the occasional use of this word for



¹⁴http://vrnewsscape.ucla.edu/mind/2012-05-17_Popcorn.html.

¹⁵ http://vrnewsscape.ucla.edu/mind/2012-05-17_Popcorn.html.

¹⁶http://vrnewsscape.ucla.edu/mind/2012-05-17_Popcorn.html.

the purposes of story segmentation in TV news is not at variance with the Minimal Adaptation Hypothesis.

A second question regards English. As mentioned in Sect. 2, the construction 'here's X with the latest news from Y' is ubiquitous in story segmentation in news broadcasts in English. Isn't the use of the spatial deictic word here a counterexample to the Minimal Adaptation Hypothesis? We cannot exclude the possibility that there are differences between language communities, and that speakers of English may be willing to put up with more conflicting uses of spatial deictic words than speakers of Russian are. At the same time, we would like to point out that here is not a clear-cut example of spatial deixis in English, but rather shares many features with Russian vot. By way of example, consider the Russian phrase vot vam kniga, which is used when the speaker hands over a book (or some other object) to the addressee. In this situation, a native speaker of English may use phrases like here's a book for you or (if the book has already been introduced in the relevant discourse) here you are or here you go (without mentioning the book). Such phrases, we argue, do not primarily focus on the location of the book (here vs. there), but rather on the fact that the book has now been passed over to the addressee. In other words, in many uses of here in English, temporal deixis is at least as important as spatial concerns. In view of this, we suggest that English here does not provide substantial counterevidence to the Minimal Adaptation Hypothesis.

Although we have presented the Minimal Adaptation Hypothesis as a hypothesis about language in TV network news, we note that it may be considered a hypothesis about language change in general. As such it predicts that language change takes place in small steps, rather than abrupt and dramatic changes. While detailed discussion of the general mechanisms of language change is well beyond the scope of the present study, we would like to point out that there is considerable support for the idea of small-step language change in the literature. A case in point is grammaticalization, which is often argued to proceed in small steps along a grammaticalization cline (cf., e.g., Hopper and Traugott 2003, p. 6 *et passim*; Heine et al. 1991, p. 223 *et passim*).

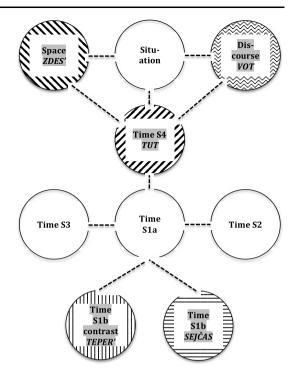
8 Conclusions: five questions and answers

Our analysis of *zdes'*, *tut*, *sejčas*, *teper'* and *vot* affords five conclusions. The first question we have addressed is: what do deictic words mean? We have argued that they have different centers of gravity in radial category networks. In other words, they have different radial category profiles. The two networks we have presented in Sects. 3 and 4 can be combined, as in Fig. 6, which has also been extended so as to distinguish between the contrastive and noncontrastive uses of *teper'* and *sejčas* discussed in Sect. 5. Although, as shown in the Fig. 6, the five deictic words under scrutiny gravitate toward different subcategories in the network, it is important to notice that the meanings of the deictic words to a large extent overlap; radial category profiles reflect statistical tendencies, not absolute boundaries between abstract invariant meanings.

The second question we have discussed is what the deictic words we have analyzed tell us about the relationship between time and space in language. In Sect. 4 we pointed out that temporal deixis depends on spatial deixis. The use of *tut* in temporal contexts can be considered a metaphorical extension from space, and the concept of location in time, which is important in the analysis of *sejčas* and *teper'*, is also metaphorical in nature. At the same time we have seen that the temporal part of the network in Fig. 6 is not a mere mirror image of the spatial part of the network, thus suggesting that the domains of time and space have



Fig. 6 Combined radial category network for spatial and temporal deixis. Shading patterns (adopted from previous figures) represent centers of gravity



some autonomy. Another part of our analysis that testifies to the autonomy of time $vis-\hat{a}-vis$ space concerns vot. As argued in Sect. 6, as the verbal equivalent of the pointing gesture vot incorporates both spatial and temporal deixis without giving primacy to either domain. In conclusion, our analysis supports the view that temporal language depends on spatial language, as suggested in the TIME IS SPACE metaphor, but at the same time we see that time has considerable autonomy $vis-\hat{a}-vis$ space.

Thirdly, one might ask: what are the implications for linguistic theory of the analysis we have proposed? Three theoretical concepts have played a role in our analysis: the radial category, radial category profiling and blending (conceptual integration). The radial category enables us to describe the meanings of deictic words as networks of interrelated subcategories. Radial category profiling allows us to capture the frequency distributions of the subcategories in the radial category networks. Blending and, more generally, conceptual integration theory (Fauconnier and Turner 2002) facilitates the analysis of the communication situation in TV news broadcasts in terms of blended joint attention. Since the radial category, radial category profiling and blending have proved to be valuable tools for the understanding of deictic words, our analysis lends support to linguistic theories that are compatible with these theoretical concepts.

A fourth question is whether language in TV news broadcasts is different from language in other settings. Even though the empirical material from TV that we have analyzed in the present study is quite limited, our analysis suggests that there are non-trivial differences. While all five deictic words are attested in TV news, they seem to have a somewhat different frequency distribution compared to data from the RNC. Furthermore, the observed differences appear to be connected to blended joint attention.



The fifth and perhaps most important question we have addressed in this study can be stated as follows: how does language adapt to a new setting? In response to this question we have advanced the Minimal Adaptation Hypothesis, according to which language makes adaptations as small as possible when applied to new settings such as the complex communication situation in TV news. The fact that Russian prefers temporal rather than spatial deixis in story segmentation provides some evidence in favor of this hypothesis, in the sense that Russian prefers temporal deixis in story segmentation, which minimizes the conflict between deixis under classical and blended joint attention. The Minimal Adaptation Hypothesis has far-reaching implications for our understanding of language under blended joint attention, and more generally for language in TV. Hopefully, the future will bring large searchable corpora of Russian TV news broadcasts, facilitating more thorough empirical testing of the Minimal Adaptation Hypothesis than was possible in the present study.

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