(In)definiteness in Russian bare nouns Evidence from presentational contexts

Daria Bikina

Harvard University

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Daria Bikina (Harvard University)

(In)definiteness in Russian bare nouns

There are three ways to introduce a nominal argument into semantic computation:

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 $\exists x. \mathsf{dog}(x)$

There exists an x such that x is a dog

A dog barks

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There are three ways to introduce a nominal argument into semantic computation:

$\exists x. dog(x)$	There exists an x such that x is a dog	A dog barks
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$\iota x. dog(x)$	There exists a unique x such that x is a dog	The dog barks
$x_{K,w} = \cap x$	the (maximal) scattered plurality of dogs in <i>w</i>	Dogs are smart

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Russian seems to use bare nouns for all of them:

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Russian seems to use bare nouns for all of them:

(1) Ja smotrj-u iz okn-a i viž-u: devočka
I look-PRS.1SG from window-PREP.SG and see-PRS.1SG girl
igra-et na skripk-e.
play-PRS.3SG on violin-PREP.SG
'I am looking out of the window and see: a girl is playing the violin.'

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 play-PRS.3SG on violin-PREP.SG
 'I am looking out of the window and see: a girl is playing the violin.'
- U menja est' koška i sobaka. Košk-u zov-ut Miya, a by I.ACC there.is cat and dog cat-ACC.SG call-PRS.3PL Mia and sobak-u zov-ut Kuper.
 dog-ACC.SG call-PRS.3PL Cooper
 'I have a cat and a dog. The cat's name is Mia, and the dog's name is Cooper.'

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 'I have a cat and a dog. The cat's name is Mia, and the dog's name is Cooper.'
- (3) Sobak-i umn-ye.
 dog-PL smart-PL
 'Dogs are smart.'

How do Russian bare nouns enter semantic computation?

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• Definite descriptions are often assumed to convey uniqueness/maximality

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- [Polinsky et al., to appear]: yes, there is such a presupposition for both singular and plurals
- Discreteness test:
- (4) #Sobaka spala, v to vremja kak sobaka begala po dvoru.
 dog slept in that time how dog ran in yard
 #'The dog was sleeping, while the dog was running in the yard.'

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- Definite descriptions are often assumed to convey uniqueness/maximality
- By implication, this means that languages without articles can convey the same meaning as definite descriptions do [Polinsky et al., to appear]: yes, there is such a presupposition for both singular and plurals
- Uniqueness/maximality in an out-of-the blue context:
- (5) Lena kupila mašinu. U neë nado pomenjat' Lena bought car.SG.ACC from 3SG.GEN.F necessary change kolësa.

wheel.PL.ACC

'Lena bought a car. The wheels on it need to be replaced.' \rightarrow all the wheels

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- (6) Sobaki očen' umn-ye.
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 - a. 'The dogs are very smart.'
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 - c. *'Some dogs are very smart.'

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 - a. 'The dogs are very smart.'
 - b. 'Dogs are very smart.'
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 - This applies to bare plurals; bare singulars, according to Dayal, are just definites

• The idea: the three argument-forming operations are subject to blocking and/or ranking

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- For example, in French the definite article *le/la* blocks the existential reading

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- The idea: the three argument-forming operations are subject to blocking and/or ranking
- For example, in French the definite article *le/la* blocks the existential reading
- In languages without articles, there is ranking: kind and definite readings are preferred to indefinite ones

Revised Ranking [Dayal, 2004]

 $\{\iota,^{\cap}\,\}{>}\exists$

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- Problem: overgeneration
- (7) Kot ne sidit na stule. cat NEG sit.PRS.3SG on chair

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- (7) Kot ne sidit na stule. cat NEG sit.PRS.3SG on chair
- $\checkmark \iota$ -reading



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- Problem: overgeneration
- (8) Kot ne sidit na stule. cat NEG sit.PRS.3SG on chair
- $\checkmark \iota$ -reading
- $\checkmark \neg \exists:$ narrow scope of the existential



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- Problem: overgeneration
- (9) Kot ne sidit na stule. cat NEG sit.PRS.3SG on chair

 $\checkmark \iota$ -reading

- $\checkmark \neg \exists:$ narrow scope of the existential
- X $\exists \neg$: wide scope of the existential



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• Borik [2016], Borik et al. [2020], Seres and Borik [2021], Šimík and Burianová [2020], Šimík and Demian [2020, 2021]: in article-less Slavic, bare nouns are born indefinite

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- The uniqueness component in their meaning is just a presupposition
 - (10) ENGLISH
 - a. The director of our school appeared in a public show. #The other director (of our school)...
 - b. A director of our school appeared in a public show. The other director (of our school)...

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(11) RUSSIAN

- a. Direktor našej školy pojavilsja v tok-šou. director our.GEN school.GEN appeared in talkshow 'The director of our school appeared in a talkshow.'
- b. Drugoj direktor našej školy vystupil na radio. another director our.GEN school.GEN spoke on radio 'The other director of our school spoke on the radio.' [Seres and Borik, 2021, p. 349]

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 - b. *(Drugoj) direktor našej školy vystupil na another director our.GEN school.GEN spoke on radio.

radio

'The other director of our school spoke on the radio.' [Seres and Borik, 2021, p. 349]

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- Šimík and Demian [2020]: people are okay using bare NPs illustrated by pictures that did not invoke uniqueness/maximality, word order and intonation were controlled
- Borik et al. [2020]: postverbal NPs must be interpreted as indefinites, preverbal NPs prefer to be definite but can be indefinite if there is a hyponymy/hyperonymy relation

• The main problem: anaphoricity

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- The main problem: anaphoricity
- (13) Ja vygljanula iz okna: devočka i mal'čik igrajut v
 I looked.out from window girl and boy play.PRS.3PL in badminton. Devočka zakinula volančik na derevo.
 badminton girl threw shuttlecock on tree
 'I looked out of the window: a girl and a boy are playing badminton. The girl threw the shuttlecock on a tree.'

- Seres and Borik [2021]: there are two semantic mechanisms involved in the semantic derivation of bare nouns in Russian – existential quantification and choice functions
- (14) $\exists x.P(x) \land Q(x)$
- (15) $f_{CH}\{x: P(x)\}$

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- (14) $\exists x.P(x) \land Q(x)$
- (15) $f_{CH}\{x: P(x)\}$
 - But you cannot get anaphoricity like in the badminton example if all of your "definite" readings are choice functions

• There are different approaches to choice functions

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Bare nouns as indefinites

- There are different approaches to choice functions
- [Reinhart, 1997, Winter, 1997]: choice functions have a free quantificational force but then we cannot solve the same overgeneration issue Dayal had

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Bare nouns as indefinites

- There are different approaches to choice functions
- [Reinhart, 1997, Winter, 1997]: choice functions have a free quantificational force but then we cannot solve the same overgeneration issue Dayal had
- [Kratzer, 1998, Matthewson, 1999]: choice functions can only be existentially closed at the topmost level still not what we observed!

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• Can we make a bare noun scope in between two quantifiers?

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- Can we make a bare noun scope in between two quantifiers?
- Can we get $\forall > \exists > \forall$ for the noun *pacient* 'patient' as the \exists in (18)?

(16) Každaja medsestra proverila každyj dokument dlja pacienta, every nurse checked every document for patient kotorogo ona osmotrela which.ACC she examined 'Every nurse filled in two cards for each patient she examined.'

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For every nurse there is a possibly different patient such that the nurse check every document on that patient
 ∀x.[nurse(x) → ∃z[patient(z) ∧ ∃y[document-of-z(y) → check(x, y)]]]

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- For every nurse there is a possibly different patient such that the nurse check every document on that patient $\forall x.[\mathsf{nurse}(x) \rightarrow \exists z[\mathsf{patient}(z) \land \exists y[\mathsf{document-of-z}(y) \rightarrow \mathsf{check}(x,y)]]]$
- (18) is not felicitous if every nurse has a multiplicity of patients

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- For every nurse there is a possibly different patient such that the nurse check every document on that patient
 ∀x.[nurse(x) → ∃z[patient(z) ∧ ∃y[document-of-z(y) → check(x, y)]]]
- (18) is not felicitous if every nurse has a multiplicity of patients
- It is felicitous only in contexts where each nurse has only one patient
 → uniqueness/maximality presupposition

The experiment

• Testing uniqueness in absence of familiarity

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The experiment

- Testing uniqueness in absence of familiarity
- Presentational (out-of-the-blue) contexts

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The experiment

- Testing uniqueness in absence of familiarity
- Presentational (out-of-the-blue) contexts
- Two felicity judgment experiments:
 - Experiment 1 on subject NPs
 - Experiment 2 on object NPs
- Both experiments were performed on Russian speakers and on English speakers
- We tested Russian singular and plural bare nouns + English definite (singular and plural) + English indefinite singular + English bare plural
- n = 30 for each experiment; self-identified monolingual speakers of Russian or English, recruited through Yandex. Toloka or Prolific

Experiment 1: subject NPs

• How to measure pragmatics?

Language game scenario

Ann and Diana have a friend Ellie, who is not an English/Russian speaker. They help Ellie to learn English/Russian by playing a language game with her. Ellie takes a picture, looks at it, and says a sentence that she thinks is good to describe what's happening in the picture. The girls correct her, saying how good Ellie's sentences are.

Experiment 1: subject NPs



E1: Parameters of the sentences

- Number of the NP
- For English definiteness of the NP
- (17) RUSSIAN
 - a. Devočka igraet na skripke. girl is.playing on violin
 - b. Devočki igrajut na skripke. girls are.playing on violin
- (18) English
 - a. The girl is playing the violin.
 - b. A girl is playing the violin.
 - c. The girls are playing the violin.
 - d. Girls are playing the violin.

$\mathsf{Experiment}\ 1:\ \mathsf{subject}\ \mathsf{NPs}$

Parameters of the visual stimuli

- The number of the referent
- The uniqueness/maximality of the referent
- For the non-unique condition: the prominence of the referent

24 / 38

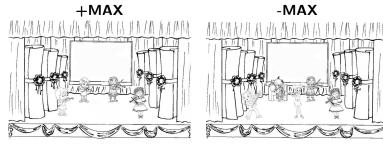
Parameters of the visual stimuli

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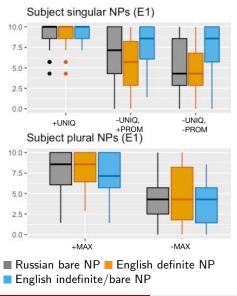


Parameters of the visual stimuli

- The number of the referent
- The uniqueness/maximality of the referent
- For the non-unique condition: the prominence of the referent



Experiment 1: Results



- No statistical difference between Russian bare NP and English definite NP
- The prominence effect is only significant in Russian
- English bare plurals prefer the maximal interpretation as well
- Model: linear mixed-effects regression, participant IDs as random effects

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26 / 38

Experiment 2: object NPs

- Very similar methodology but for object NPs
- Not pictures but videos in order to avoid pluractionality
- Same parameters of the videos: +UNIQ, -UNIQ+PROM, -UNIQ-PROM, +MAX, -MAX
- A question focusing the object NP

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27 / 38

Experiment 2: object NPs

- (19) Devuška položila paket/pakety na stol woman put bag/bags on table
- (20) a. The woman put the bag on the table.
 - b. The woman put a bag on the table.
 - c. The woman put the bags on the table.
 - d. The woman put bags on the table.

Experiment 2: object NPs

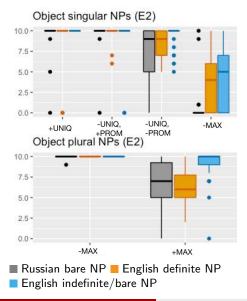
What did the woman put on the table?



The woman put a bag on the table.



Experiment 2: Results



- The difference between Russian bare singular NPs and English definite singular NPs is slightly more significant than in Exp 1 (0.01>p>0.05)
- The difference between the Russian bare plurals and English definite plurals in insignificant
- Model: linear mixed-effects regression, participant IDs as random effects

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• Bare nouns in Russian, both singular and plural, align with English definite nouns everywhere

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- Pro Dayal's theory?

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 I.ACC called woman
 'A woman called me.'

- Bare nouns in Russian, both singular and plural, align with English definite nouns everywhere
- Pro Dayal's theory?
- What to do with obvious existential uses?
- (21) Menja pozvala ženščina. I.ACC called woman 'A woman called me.'
- (22) Ja knigu čitaju.
 I book.ACC read.PRS.1SG
 '(What are you doing?) I'm reading a book.'

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Existential uses

- I claim that all instances of existential bare nouns in Russian belong to the following three syntactic environments
 - Postverbal focus
 - Preverbal intonational focus
 - Sominals modified by focus elements (like drugoj 'another')
- Don't they all look like the +F constituents identified by Bailyn [2012]?

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Proposal

• Russian bare argument nominals project up to the DP level [Pereltsvaig, 2006, per, 2013, Lyutikova, 2018]

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33 / 38

Proposal

- Russian bare argument nominals project up to the DP level [Pereltsvaig, 2006, per, 2013, Lyutikova, 2018]
- D projects as a head and must contain something responsible for the referential force
 - Multiple evidence from agreement

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Proposal

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- D projects as a head and must contain something responsible for the referential force
 - Multiple evidence from agreement
- (23) éta talantlivaja zubnoj vrač this.FEM talented.FEM dental.MASC doctor 'this talented (female) dentist'

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• What if the D contains not an operator but a variable ranging over operators?

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- What if the D contains not an operator but a variable ranging over operators?
- Chierchia [2022] proposed something similar for English bare plurals a variable operator ARG ranging over ∃ and kind formation

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34 / 38

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ARG - a null operator variable such that

$$\mathsf{ARG} = \begin{cases} \iota P.\\ \lambda P. \cap P\\ \lambda P. f_{\exists}(P_w), \end{cases}$$

where f_{\exists} is a variable ranging over a choice function
only if the context is +F

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- The three argument-forming operators, *ι*, ∃, and ∩ are subject to blocking and ranking
- Russian has no articles \rightarrow no blocking
- But Russian does have ranking in the exact same way Dayal predicted: {*ι*,[∩]}>∃
- In this way, the ARG operator embodies this ranking hierarchy

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• I showed that in presentational context, Russian bare nouns tend to have the uniqueness/maximality reading

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36 / 38

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36 / 38

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- The exact syntactic mechanism of how this ranking works is yet to be elaborated

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38 / 38