Affix ordering in Bulgarian, Russian and Polish double diminutives

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Goals

- To provide an overview of the diminutivizing strategies in Bulgarian, Russian and Polish;
- To explain the formation of double diminutives in the three Slavic languages;
- To contribute to the typology of diminutivization; and
- To contribute to the better understanding of affix ordering.



Structure of the talk

- Preliminaries: data and method, the structure of the Slavic word, what is a double diminutive, etc.
- The set of the Bulgarian diminutive suffixes and double diminutives in Bulgarian
- The set of the Russian diminutive suffixes and double diminutives in Russian
- The set of the Polish diminutive suffixes and double diminutives in Polish
- Double diminutives in Bg., R. and P: Summation
- Double diminutives and closing suffixation
- Conclusion



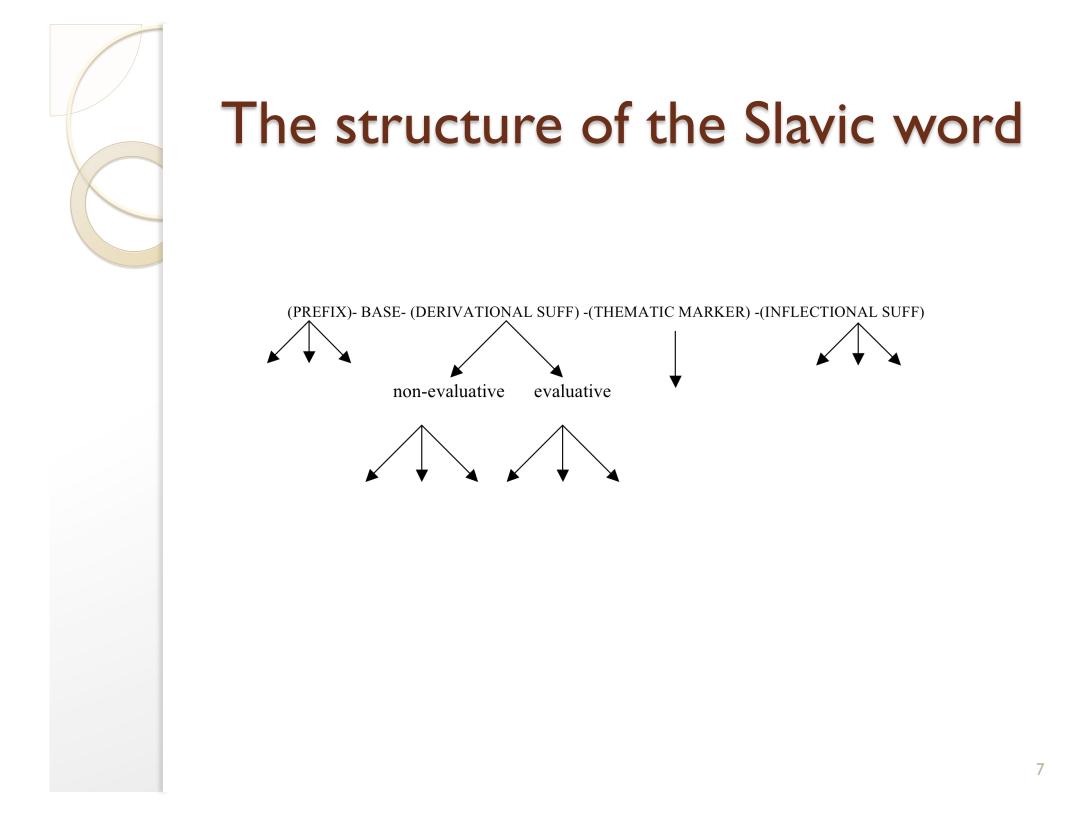
Data

- The data come from Bulgarian, Russian and Polish, and thus represent the three major subgroups to which the Slavic languages are usually assigned.
- The three languages were selected to ensure that our research is typologically relevant.



Sources of data

- The respective Academy Grammars: Andrejčin et al. (1983) for Bulgarian, Švedova et al. (1980) for Russian, and Gregorczykowa et al. (1989) for Polish.
- other grammars and scholarly articles
- dictionaries
- the respective national corpora
- Internet
- native speaker intuition





Double diminutives

 $X \rightarrow DIMI \text{ 'small } X' \rightarrow$ $\rightarrow DIM2 \text{ 'very small } X'$

A DIM2 noun has two overt DIM suffixes, by default.

The problem: all diminutive suffixes in a language have the same semantics but do not combine freely with one another to express double diminutives. Thus, diminutive suffixes can help us understand how suffix ordering works.



The Slavic noun

PREF-BASE-DSUFF-ISUFF

Recall that the DSUFF slot accommodates the purely derivational suffixes and the DIM suffixes.

NB! Nominal DIM suffixes can be attached recursively:

 $\left[\left[N + DIMI\right]_{N} + DIM2\right]_{N}$

i.e. suffixes of the same type (often also the same suffix) are added on adjacent cycles, which is rather unusual in word-formation.



Nominal diminutives

The formation of nominal diminutives, be they DIMI or DIM2, can be seen as phonologically-driven.

<u>Default rules</u>

- nouns in -C receive DIM suffixes in -C
- nouns in -a receive DIM suffixes in -a
- nouns in -o/-e receive DIM suffixes in either -o (in R. & P.) or -e (in Bg. & R.)



Bulgarian diminutive suffixes

- I. -ec: vjatăr 'wind' \rightarrow DIMI vetr-ec
- 2. -I-e: nos \rightarrow DIMI nos-le
- 3. -č-e: prăst 'finger' → DIMI prăst-če
- 4. -k-a: kniga 'book' → DIMI kniž-ka
- 5. -ic-a: răka 'hand' \rightarrow DIM răč-ica
- 6. -ičk-a: čanta → DIMI čant-ička
- 7. -čic-a: sol 'salt' \rightarrow DIM1 sol-čica
- 8. -c-e: krilo 'wing' \rightarrow DIM1 kril-ce
- 9. -ic-e: mljako 'milk' \rightarrow DIMI mleč-ice (unprod.)
- 10. -enc-e: tele 'calf' \rightarrow DIM1 tel-ence
- ! II.-e: is considered inflectional (Manova 2005), e.g. kotel 'caldron' → kotl-e



Bulgarian diminutives (bases in -C)

Nouns terminating in -C, which are masculine by default, take either -ec or -le and -če:

- -ec: vjatăr 'wind' \rightarrow DIM1 vetr-ec
- -I-e: nos \rightarrow DIMI nos-le
- -č-e: prăst 'finger' → DIMI prăst-če
- -le and -če are gender-changing, i.e.-le and -če diminutives are neuter.



Bulgarian diminutives (bases in -a)

Nouns terminating in -a are feminine by default and take either the diminutive suffix -ka or -ica, and seldom both, -ka and -ica:

kniga \rightarrow DIMI kniž-ka kniga \rightarrow DIMI kniž-ica (archaic).



Bulgarian diminutives (bases in -o/-e) Nouns terminating in -o/-e which are neuter by default select -ce, -ice, and -ence. Some nouns form diminutives with both -ce and -ice:

mljako 'milk' \rightarrow DIMI mlek-ce mljako 'milk' \rightarrow DIM I mleč-ice dete 'child' \rightarrow DIMI det-ence



DIM2 in Bulgarian I

DIMI suffixes that attach to masculine nouns (i.e. to nouns in -C) cannot be used as DIM2 suffixes. However, the gender-changing DIMI suffixes -le and -če can be followed by the diminutive suffix -ence:

-le + -ence \rightarrow -lence

nos 'nose' \rightarrow DIM1 nos-le \rightarrow DIM2 nosl-ence

-če + -ene \rightarrow -čence krăg 'circle' \rightarrow DIMI krăg-če \rightarrow DIM2 krăg-čence drug-ar 'friend' \rightarrow DIMI drugar-če \rightarrow drugar-čence pisa-tel 'writer' \rightarrow DIMI pisatel-če \rightarrow DIM2 pisatel-čence



DIM2 in Bulgarian 2

- Diminutive suffixes that attach to nouns terminating in -a form the following combinations:
- -ica + -ka: -ič-ka

răka 'hand' → DIMI răč-ica

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→ DIM2 răč-<mark>ič-ka</mark>
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• -ka + -ica \rightarrow -č-ica
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kniga 'book' → DIMI kniž-ka

→ DIM2 kniž-č-ica

!There are DIMI suffixes -ička (čanta 'bag' → DIMI čantička) and -čica (sol 'salt' → DIMI sol-čica).



Interim conclusion: Bulgarian

• DIM2 are -ka,-ica and -ence

Rules for derivation of DIM2 nouns

- I) A noun in $-a \rightarrow DIMI$ in $-a \rightarrow DIM2$ in -a (either -ka or -ica)
- 2) A base in -C/-o/-e \rightarrow DIM1 in -e \rightarrow DIM2 with -ence
- 3) Inanimate non-abstract nouns (countable) as well as animates denoting offspring (man's and of animal's) are the most typical meanings of DIM2 nouns.
- DIM2 are frequent, i.e. the process is productive and relatively unconstrained.



Russian diminutive suffixes

- I. -ec: vopros 'question' \rightarrow voprosec
- 2. -onok: mal'čik 'boy' \rightarrow mal'čonok
- 3. -ik: stol 'table' \rightarrow stolik
- 4. -ok: pidžak 'coat' → pidžačok
- 5. -ek: den 'day' \rightarrow denek
- 6. -čik: rukav 'sleeve' \rightarrow rukavčik
- 7. -ic-a: časť 'parť \rightarrow častica
- 8. -k-a: bereza ,birch' \rightarrow berezka
- 9. -očk-a: kofta ,blouse'→ koftočka
- 10. -ik-o: lico ,face' → ličiko
- II. -k-o: pivo 'beer' \rightarrow pivko
- 12. -c-e: maslo 'oil' \rightarrow maslice
- I3. -ec-o: pis'mo ,letter' → pis'meco



Russian DIMI (bases in -C)

- -ec: vopros 'question' \rightarrow voprosec
- onok: mal'čik 'boy' → mal'čonok
- -ik: stol 'table' \rightarrow stolik
- ok: pidžak 'coat' → pidžačok
- -ek: den 'day' \rightarrow denek
- -čik: rukav 'sleeve' → rukavčik

! More or less variants of -ok/-ik/-ek.



Russian DIMI (bases in -a)

-k-a: bereza ,birch' \rightarrow berez-ka -očk-a: kofta ,blouse' \rightarrow koft-očka -ešk-a: ryba 'fish' \rightarrow ryb-eška

-ic-a: časť 'parť → čast-ica



Russian DIMI (bases in -o/-e)

- -ik-o: lico ,face' \rightarrow lič-iko
- -k-o: pivo 'beer' \rightarrow piv-ko
- -c-o/-c-e: maslo 'oil' \rightarrow masl-ice
- -ec-o: pis'mo ,letter' → pis'm-ece
- -yšk-o: sol'nce → sol'n-yško



DIM2 in Russian (bases in -C)

• -ok + -ek \rightarrow -oček

golos 'voice' \rightarrow golosok \rightarrow golos-oček

• -ek + -ek \rightarrow -eček den 'day' \rightarrow denek \rightarrow den-eček

• -ik + -ek \rightarrow -iček nož 'knife' \rightarrow nožik \rightarrow nož-iček



DIM2 in Russian (bases in -a and ')

- -ka + -ka → -očka
- igla 'needle' \rightarrow igolka \rightarrow igol-očka
- -ica + -ka \rightarrow -ička voda \rightarrow vodica \rightarrow vod-ička časť \rightarrow častica \rightarrow čast-ička
- -eška + -ka \rightarrow -ešečka ryba \rightarrow rybeška \rightarrow ryb-ešečka



DIM2 in Russian (bases in -o/-e)

•-ko + -ko \rightarrow -ečko

sito ,sieve' \rightarrow DIMI sitko \rightarrow \rightarrow DIM2 sit-ečko

okno 'window' → DIMI okoško → → DIM2 okoš-<mark>ečko</mark>



Interim conclusion: Russian

Rules for derivation of DIM2 nouns:

- DIMI in -C takes DIM2 -ek
- DIMI in -a take DIM2 -ka
- DIMI in -o take the DIM2 -ko.

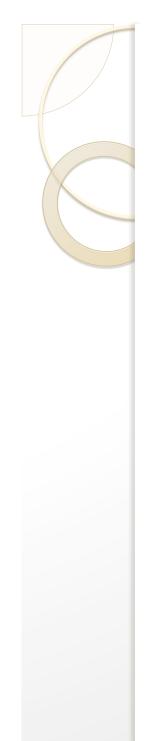
DIM2 are usually formed from non-derived basic nounsm that are countable, inanimate and nonabstract.

• A significantly lesser number of nouns than in Bulgarian form DIM2 nouns.



Polish diminutive suffixes

- I. -ek: fartuch 'apron' \rightarrow DIMI fartusz-ek
- 2. -ik: konflikt 'conflict' \rightarrow DIM1 konflikc-ik
- 3. -yk: kamień 'stone' → DIMI kam-yk
- 4. -uszek: dzbanek 'jug' \rightarrow DIMI dzban-uszek
- 5. -iszek: brat 'brother' \rightarrow DIMI brac-iszek
- 6. -ulek: garnek 'pot' \rightarrow DIMI garn-ulek
- 7. -k-a: rura 'pipe' \rightarrow DIMI rur-ka
- 8. -uszk-a: bryczka 'sulky' \rightarrow DIMI brycz-uszka
- 9. -yczk-a: twarz 'face' \rightarrow DIMI twarz-yczka
- 10. -k-o: wiadro 'bucket' \rightarrow DIM1 wiader-ko
- 11. -uszk-o: jabłko 'apple' \rightarrow DIM1 jabł-uszko



Polish DIMI (bases in -C)

-ek: fartuch 'apron' \rightarrow DIMI fartusz-ek -ik: konflikt 'conflict' \rightarrow DIMI konflikc-ik -yk: kamień 'stone' \rightarrow DIMI kam-yk

-uszek: dzbanek 'jug' → DIMI dzban-uszek
 -iszek: brat 'brother' → DIMI brac-iszek

-ulek: garnek 'pot' \rightarrow DIMI garn-ulek



Polish DIMI (bases in -a)

-ka: rura 'pipe' → DIM1 rur-ka
-uszka: bryczka 'sulky' →
DIM1 brycz-uszka
-yczka: twarz 'face' →
DIM1 twarz-yczka



Polish DIMI (bases in -o/-e)

-ko: wiadro 'bucket' \rightarrow DIM1 wiader-ko

-uszko: jabłko 'apple' → DIM1 jabł-uszko



DIM2 in Polish

Polish is very similar to Russian.

• DIMI in -C take the DIM2 -ek:

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\mathsf{-ek+} \cdot \mathsf{-ek} \to \mathsf{-eczek}
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dom 'house' \rightarrow DIMI domek \rightarrow
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DIM2 dom-eczek
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-ik + -ek \rightarrow -iczeck stół 'table' \rightarrow DIMI stol-ik \rightarrow

DIM2 stol-iczek

-yk + -ek → -yczeck kosz 'basket' → DIMI kosz-yk → DIM2 kosz-yczek



DIM2 in Polish (bases in -a and -o/-e)

• DIMI in -a select DIM2 -ka: -ka + -ka \rightarrow -eczka rama 'frame' \rightarrow ramka \rightarrow ram-eczka

• DIMI in -o select the DIM2 -ko: -ko + -ko \rightarrow -eczko sito 'sieve' \rightarrow sitko \rightarrow sit-eczko



DIM2 in Polish (unproductive patterns)

kwiat 'flower' → DIMI kwiat-ek → DIM2
kwiat-uszek
kij 'stick' → DIMI kij-ek → DIM2 kij-aszek

paka 'package' → DIMI pacz-ka → DIM2 paczuszka

However, there is no *-uszko!



Interim conclusion: Polish

Polish is very similar to Russian, i.e. -ek, -ka and -ko are used as DIM2 suffixes.

DIM2 are derived from base noun that are countable, non-abstract and non-personal. The base nouns also tend to be morphologically simple and monosyllabic.

NB! Phonological constraint: nouns ending in a velar consonant (k, g, h) seldom form DIM2.

• The number of DIM2 nouns is relatively small.



Summing up

• The three languages, Bulgarian, Russian and Polish, have specialized three suffixes each for derivation of DIM2 nouns:

Bg.: -ka, -ica and -ence R.: -ek, -ka and -ko P: -ek, -ka and -ko

 Double diminutives are most frequent (less constraint) in Bulgarian, less frequent in Russian and least ferquent (most constraint) in Polish.



Constraints on double diminutives

Constraints on the BASE NOUN:

- Semantic (slightly different in the diffent languages): countable inanimate non-abstract nouns are the typical bases of DIM2;
- Morphological (only in Russian and Polish): nondeived monosyllables are the typical bases of DIM2.
- Phonological (only in Polish): bases in velar consonants seldom have DIM2.

Constraints on the suffix attached

- Phonological: the suffix must have a particular phonological make-up;
- Morphological: the combinations of suffixes are fixed and to some extent resemble templatic affix ordering, i.e. only particular suffixes can be placed in the DIM2 subslot and these suffixes never co-ocurr in the that subslot.
- Psycholonguistic: only productive diminutive suffixes are used in DIM2 nouns.



Suffix selection in diminutives

Bg. N in -C \rightarrow DIM1 in -e \rightarrow DIM2 -ence \rightarrow DIM3 -ence Bg. N in -a \rightarrow DIM1 in -a \rightarrow DIM2 in -a \rightarrow DIM3 -ica Bg. N in -o/-e \rightarrow DIM1 in -e \rightarrow DIM2 -ence \rightarrow DIM3 -ence

R. /P. N in -C \rightarrow DIM1 in -C \rightarrow DIM2 -ek R./P. N in -a \rightarrow DIM1 in -a \rightarrow DIM2 in -ka R. /P. N in -o/-e \rightarrow DIM1 in -o \rightarrow DIM2 in -ko



Closing suffixation

A closing suffix is a suffix that does not allow addition of further suffixes of the same type, i.e. a closing derivational suffix cannot be followed by another derivational suffix, and a closing inflectional suffix cannot be followed by another inflectional suffix. Inflectional suffixes can attach to closing derivational suffixes.

(based on Aronoff & Fuhrhop 2002)



Diminutives and closing suffixation

 DIM suffixes follow the other derivational suffixes and are thus trivially closing. (Aronoff & Fuhrhop 2002)

This claim is false!

As we could see, with respect to reclusiveness there are different types of diminutive suffixes.



Closing diminutive suffixes

There are two types of closing diminutive suffixes:

- Diminutive suffixes which do not allow further diminutivization, e.g. Bg./R. -ec.
 Such suffixes are unproductive.
- 2) Diminutive suffixes that can be followed only by themselves. Such suffixes are productive.



Closing suffixes revisited

Closing suffixes are suffixes that close the word to the addition of further suffixes of the same type, i.e. a closing derivational suffix cannot be followed by another derivational suffix, except by itself, and a closing inflectional suffix cannot be followed by another inflectional suffix.



Conclusion

- Slavic double diminutives are an interesting case of affix ordering and contribute to morphological theory.
- Of all constraints involved in the ordering of the semantically homogeneous diminutive suffixes, the morphological constraint on the DIM2 suffixes, i.e. the fixed order defined by morphology, is the most powerful one. If one knows which suffixes can be used as DIM2 and in which combinations (they are only three!), one would be able to produce a DIM2 noun (a potential one at least).



Thank you!