From TORT to TŭRT/TRŭT: Prototype Patterning in the Spread of the Russian N(A)pl -á

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Ideally any piece of scholarly work should accomplish both practical and theoretical goals, both enabling the community of scholars to better understand a given phenomenon, and also expanding our understanding of how phenomena of that type behave in general. Judging a piece on the precision of its practical contribution can be accomplished immediately and with some degree of certainty. The value of the theoretical contribution is less tangible, since it is generally best appreciated when it is later successfully implemented to solve a practical problem beyond the domain for which the author created it. This is often a serendipitous event, beyond the control of the original scholar, yet it is crucial to the scholarly endeavor. Indeed, the whole culture of citation indexes exists as an attempt to identify and quantify the sharing of theoretical models in the scholarly community. Dean Worth is the author of many works that have inspired others to apply his frameworks and principles to further issues. In this article I will provide yet one more small example of how a model created by Worth can be extended beyond its original domain. Although the example is itself rather trivial, the implications for the organization of linguistic information are not. The empirical evidence involved defies any attempt to discover a rule that could govern it, suggesting instead that linguistic information is organized with reference to prototypes.

In his 1983 article entitled "Conditions on á-plural formation in Russian," Worth set out to discover the parameters of the set of nouns that use the N(A)pl stressed -á in Russian. He found that rather than delimiting a discrete set, it was more appropriate to describe these nouns in terms of a best example and variations on that theme. As a cognitive linguist, I recognize the strategy Worth invoked as the description of a radial category based upon a prototype. For solid practical reasons, Worth's description is limited to multisyllabic stems (the overwhelming majority of nouns that have N(A)pl -á have multisyllabic stems). The present article will extend Worth's

 $^{^1}$ According to Shapiro (1985: 173), there are approximately 250 nouns for which dictionaries and grammars list the N(A)pl - \acute{a} . As shown below, only 33 such nouns (13%) have monosyllabic stems.

In the Realm of Slavic Philology: To Honor the Teaching and Scholarship of Dean S. Worth From His UCLA Students. John Dingley and Leon Ferder, eds. Bloomington, IN: Slavica Publishers, 1999, 145–61.

prototype model to monosyllabic stems, and will also invoke prototypicality as a force in the historical development of the N(A)pl -a.²

The masculine N(A)pl -á is a characteristically Russian piece of morphology, nearly unique in the Slavic territory. The factors that contributed to the development of this ending include the existence

of former dual endings in -a, the existence of NApl - Gsg syncretism in the neuter and feminine paradigms, the existence of collective

forms in -a, and the spread of the oblique plural endings Dpl -am, Ipl -ami, and Lpl -ax, yielding a declension that could be interpreted as being both genderless and agglutinative, where -a- signals plural, and -m, -mi, -x signal the respective oblique cases (but the Gpl

native Npl in -y is available. Bulgarian has only four masculine nouns with

dual was important in this development. Gorškova & Xaburgaev (1981: 210) point out that the spread of N(A)pl -á in Russian began in the 15-17th centuries, by which time a considerable amount of reshuffling of accentuation patterns had already taken place. The prominence of paired items in the inventory of nouns that commonly occur with N(A)pl -á is also hard to ij

igno	ore:	tist at doctors are a construction.		
5	breg/bereg	'bank'	bort	'side of a ship'
	rog	'horn (on an animal)'	bok	'side'
	glaz	'eye'	kraj	'side; edge; land'
	mex	'bellow(s)'	rukav	'sleeve'
	povod	'rein'	obšlag	'cuff'
	tormoz	'brake'	postav	'millstone'
	žernov	'millstone'		

² This article is an expansion of preliminary work on this topic presented in Janda 1996 (180-85).

³ This ending is conspicuously absent in neighboring Belarusian, and in most other Slavic languages N(A)pl -a is limited to a mere handful of nouns. Ukrainian shows the strongest productivity outside of Russian, but even here the ending is limited to about a dozen nouns, and in all cases an alter-

plural forms in -4; two of them refer to paired items (suggesting the dual number as the origin of the deviant ending): rog 'horn' and krak 'leg,' but two do not: list 'leaf' and gospodin 'sir.' Cummins (1991: 266) suggests the early development of a similar degendered plural in -a in Czech, later partially eliminated by "the normative endeavors of the founders of literary

Czech." ⁴ Stankiewicz (1981: 50-51) rejects the possibility that Russian N(A)pl -á draws its origin from the dual, on the grounds that the old Slavic dual was probably not end-stressed. He explains it instead as an extension of the neuter NApl, encouraged by the spread of Dpl -am, Ipl -ami, Lpl -ax. Stankiewicz's view is, however, idiosyncratic; most scholars agree that the

agreement for numerals (in direct cases):

mark quantification.

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this development, we need to reconstruct the relevant stages this development went through in the history of Russian.⁵ East Slavic (in approximately the 13th century) presented the following picture of

paired items

1' behaved as a pronoun and agreed in number, gender, and case; '2,' '3,' '4' behaved as adjectives and agreed in gender and case with nouns in the dual for '2' and in the plural for '3' and '4'; and numerals above '5' behaved as nouns and governed the Gpl of the nouns they

a singular and plural, with a special dual number for

quantified
in most nominal and adjectival morphology the masculine and the neuter have similar declensions, opposed to feminine
one of the primary functions of the genitive case is to

deductive reasoning⁶ were motivated:

An abduction was made that masculine and neuter pattern together, yielding the deduction that -a could serve

On the basis of these observations, the following chains of abductive-

as the NAVdu form for neuters (this eliminates most neuter forms in -ĕ which were parallel to feminine forms, but does not remove the neuter NAVdu -i, which survives yet in Russian, as in koleni 'knees').

• An abduction was made that the numerals '2,' '3,' '4' pattern together, since they are the only numerals that behave as adjectives. The deduction was made that the nouns they quantify draw on the same set of morphology, resulting in a contamination of construction types.

This account is based primarily on the information presented in Šaxmatov 1957 (207–18) and Gorškova & Xaburgaev 1981 (210–12).

⁷ The quantifiers 'both' (oba, obe) and '1 1/2' (poltora) are both related to '2' and behave similarly. From henceforth '2' includes reference to these numerals as well.

⁶ The role of abductive-deductive reasoning in linguistic change is described in Andersen 1973.

⁷ The quantifiers 'both' (oba, obe) and '1 1/2' (poltora) are both related to '2'

plural forms used with '2' and of dual forms used with ⁷3' and '4.' An abduction was made that the form used with '2,' '3,'

Thus in the 14th century there are attestations both of

'4' is closely associated with the N(A)pl and the Gsg, since these forms were now syncretic for neuters, and showed significant overlap in other paradigms. Thus the neuter o-stems and the i-stems emerged as prototypical paradigms with respect to syncretism of endings for the N(A)pl, Gsg, and adjectival numerals. The a-stems showed only slight deviation from this syncretic pattern, by allowing variation in the ending used with adjectival numerals. As shown in table 1, the masculine o-stems deviated most from this pattern, targeting them for analogical change.

Table 1: Prototypical Patterns for Syncretism

prototypicality	stem type	N(A)pl	Gsg	'2, 3, 4'
prototypical	neuter o-stems	-a	-a	-a, (-i)
patterns	<i>i</i> -stems	-i	-i	-i
slight deviation	a-stems ⁸	-у	-у	-ĕ, -y
greater deviation	masculine o-stems	-i/-y	-a	-a, -i/-y
This distribution of	endings in major para	adigms ir	n the la	te 14th–early

stems. The a-stems yielded by replacing -ĕ with -y with '2,' '3,' '4.' Since the masculine o-stem paradigm was further removed from prototypicality, its course of development was more complex.

15th centuries led to the deduction that these three forms should be syncretic, following the pattern in most neuter o-stems and in i-

At this point it is likely that the old dual forms no longer signaled 'pairedness' in any coherent fashion, nor did they signal any other number; they had lost their specific identity in the number system.

their merger in Russian probably took place in the 12th century because of the morphophonemic alternations that took place before -i but not -y.

Dual forms were thus in themselves numberless forms, neither 8 This table glosses over the significant relationships between the a-stem Gsg and DLsg (and also between the soft and hard paradigms), which took another two or three centuries to be fully resolved, but the trend was already toward Gsg -y. In this table, -i and -y are listed separately although

that of Belarusian and Ukrainian. Whereas the peripheral location of Russian supported the retention of the dual somewhat longer, creating a situation in which the use of formerly dual forms with '2,' '3,' '4' predominated, the opposite was true of the other East Slavic languages, where the preponderance of forms were plural and the dual forms were quickly edged out.

The former NAVdu forms in Old Russian were ambiguous in

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terms of case marking, parallel to N(A)sg forms used with 'I' and to Gpl forms used with numerals '5' and over, and formally associated with both the N(A)pl and the Gsg. Thus both the number and case of these forms were available for reinterpretation, yielding an identification as one or the other of the formally associated case-number assignments. In modern Russian, this identification is unambigu-

ously expressed only in the presence of agreeing adjectives. The presence vs. absence of a numeral plays an important role in this process. Quantification by a numeral supports the identification of the ambiguous form as a genitive, whereas the absence of a numeral

does not. Thus with '2,' '3,' '4' the -a desinence with masculine nouns is now formally recognized as a Gsg and has eclipsed -i/-y. This ending is accompanied by Gpl adjectival morphology (singular adjectival endings were not implemented presumably due to the fact that '2,' '3,' '4' clearly could not make singular reference). The identification of -i, -y with feminine nouns in collocation with '2,' '3,' '4' remains ambiguous, as evidenced by the interchangeable use of both N(A)pl and Gpl adjectival endings. Where quantification was not overtly marked by '2,' '3,' '4' the ambiguous form was interpreted as N(A)pl, which led to the spread of -a to the N(A)pl of the masculine o-stem class, where it competes with -i/-y, but, as noted above, this development was also influenced by the existence of

preted as N(A)pl, which led to the spread of -a to the N(A)pl of the masculine o-stem class, where it competes with -i/-y, but, as noted above, this development was also influenced by the existence of collectives in -a, the spread of -am, -ami, -ax, and the restructuring of mobile accentual paradigms.

Over time scholars have noted both the expansion and (more rarely) retreat of the N(A)pl -a morpheme, as observed in attestations from the 15th through 20th centuries (Shapiro 1985, Worth 1983, Panov 1968, Ivanova 1967). Studies of N(A)pl -a in both the 19th and

rarely) retreat of the N(A)pl -4 morpheme, as observed in attestations from the 15th through 20th centuries (Shapiro 1985, Worth 1983, Panov 1968, Ivanova 1967). Studies of N(A)pl -4 in both the 19th and 20th centuries suggest that this morpheme is usually associated with affective language, able to take on both positive and negative emotional coloring, a fact that has likely restricted its access to literary codification (Terlov 1987). Aside from only two exceptions involving

nouns with fixed end stress (the formerly dual rukavá 'sleeves' and

words:

tion, identifying the model member of this category as a disyllabic or polysyllabic pleophonic stem, with penultimate stress assigned prior to pleophony and jer insertion (thus kólokol 'bell,' is actually *kólkol). In his words (Worth 1983: 261):

the segmental conditions on -á-plural formation consist of what might be called a kind of neo- or pseudo-pleophony, joining together into a single, albeit not yet adequately described structural class three genetically disparate groups of

with accentual patterns that permit end stress in the N(A)pl as opposed to stem stress in the singular. However this simple prosodic constraint merely identifies the group of nouns that is excluded from the phenomenon; it defines the category negatively but not positively. Even among nouns with the requisite accentual pattern, N(A)pl -a is the exception rather than the rule, and the task of identifying the nouns that have this special plural is better understood as a prediction of probabilities than as a rule-governed phenomenon. Worth (1983) has provided the most satisfying descrip-

phonology of pleophonic forms (pótrox 'entrails,' tórmoz 'brake') 3) native and borrowed (usually German) words with reversal of medial and final consonant classes, as compared to pleophonic forms (véčer 'evening,' tópol'

1) actual East Slavic pleophonic words (béreg 'bank,' gólos

2) Russian stems which partially imitate the segmental

'voice,' téterev 'grouse,' kólokol 'bell')

'poplar,' sóbol' 'sable,' štépsel' 'socket,' šómpol 'cleaning rod'). What Worth describes here is a radial category centered around the prototypical pleophonic ("tort") stems.

Worth's analysis does not discuss the distribution of N(A)pl -á

among monosyllabic stems in any detail, and this is not surprising, since there are only thirty-three nouns for which this ending has been

codified in the literary language. The distribution for monosyllabic stems, however, betrays structure similar to the one discovered by

Worth for multisyllabic stems, focusing on the prototypical shape of CVmidRC/CRVmidC, where C indicates a consonant or consonant cluster, Vmid indicates a mid vowel, and R indicates a liquid (r or l);

i.e., nouns arising from turt/trut groups and their look-alikes. This

which this ending is not recognized.

in Švedova *et al.* 1982 and major dictionaries as examples of monosyllabic nouns that do exhibit the N(A)pl -*a* ending and of similar nouns with the requisite stress pattern (stem stress in singular, but end stress in plural) for which this ending is not sanctioned in the literary

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finding, elaborated below, is consistent with the observation of an

language. According to these sources, there are ninety-eight masculine monosyllabic stem nouns in Russian representing eleven stem types (sequences of C, R, Vmid, and Vnon-mid) that are prosodically capable of supporting this ending, but the N(A)pl-a is codified in the literary language for only thirty-three nouns belonging to six stem types. Table 2 presents the stem for which N(A)pl-a is officially recognized in the literary language, and Table 3 lists the stems for

Table 2: Words that have N(A)pl -á in the Literary Language* (*Words that also use -y/-i are asterisked; numbers refer to stem types)

2) CVmidRC

'side (of a ship)'		
'summit'		
'thunder'		
'fodder'		
'sort'		
ʻsilk'		
'storm gale'		

tort stems, and can be extended exceptionally to ttt/trtt stems, the second locative takes ttrt/trtt as its norm and can be extended to tort stems. Together, these facts point to an association between the two stem types,

perhaps once motivated by the ablaut patterns possible for liquid diphthongs, which could produce both *tort* and *tŭrt* stems from a single root.

⁹ Janda 1995 explored affinities between *tort* and $t \check{u} t t / t r \check{u} t$ stems in relation to the "second locative" $-\check{u}$ ending. Of the 148 masculine nouns that exhibit this ending, 138 have monosyllabic or nonsyllabic stems, and $t \check{u} r t / t r \check{u} t$ stems

figure prominently in this group. The remaining ten nouns that have polysyllabic stems all derive from monosyllabic stems, either via word-for-

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3) CRVmidC	No. 302 No. 31 Company April 1
breg	'bank'
grob*	'coffin, grave'
sled*	'track, footprint'
xleb	'bread'
xlev	'barn'
4) RVmidC	
les	'forest'
log	'gully'
rog	'horn'
5) CVmidC	· · · · · · · · · · · · · · · · · · ·
bok	'side'
vek	'century'
ves	'weight'
god*	'year'
dom	'house'
mex*	'fur; bellows, wine-skin'
sneg	'snow'
stog	'rick'
sčet	'bill'
tok*	'bird's mating place; threshing-floor
tom	'volume'
ton	'tone'
cvet	'color'
cex*	'guild'
xod*	'gait'
8) CRVnon-midC	
glaz	'eye'
kraj	'edge; land'
9) RVnon-midC	VEL XX 1887 3 V. 20
lug	'meadow'

Table 3: Words that do not have N(A)pl -á in the Literary Language				
Word and gloss	Cited with N(A)pl -á in Ivanova 1967	N(A)pl -á accepted by speaker 1	N(A)pl -á accepted by speaker 2	
1) CVmidR			one / sead and	
bor 'coniferous forest'	yes	no, clashes with borá 'NE wind on Black Sea'	no	
pol 'half' xor 'choir'	yes no	no yes, sounds archaic	no yes	
2) CVmidRC	San Carlotte and Car	4	1. 9831 123 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	yes yes	no yes	no yes	
	yes yes	no yes	yes yes, as technical term	
4) RVmidC	and the second			
	yes yes no	no no no	no yes no, because of clash with <i>rajá</i> 'paradise' Gsg	
5) CVmidC				
The second se	yes yes	no maybe in some contexts	no no	
zob 'bird's crop' kon 'kitty (games)' mozg 'brain'	1 .	yes no plural no	maybe no no	
nos 'nose' pot 'sweat'	yes yes no	no no plural	no no	
most 'bridge' sboj 'head, legs, entrails (meat)'	yes no	no no	no no	

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6) CVnon-midR	· · · · · · · · · · · · · · · · · · ·		
bal 'ball'	no l	no	no
val 'shaft'	no	no	no, clashes with volá 'ox' Gsg
žir 'fat'		yes, as a term	no
mir 'peace, world'		yes, as a term	maybe Russian symbolists would use it
<pre>pal 'bollard, pawl' (naut.); 'fire' (dial.)</pre>	no	no plural	no
par 'steam'	yes	yes, as a term	no, clashes with porá 'time'
pir 'feast'	no	no	no
syr 'cheese'	no	maybe among cheese workers	no
tyl 'rear'	yes	no	yes
šar 'sphere'	no	no	no
jar 'ravine'	no	no	no
7) CVnon-mid RC			
spirt 'alcohol'	no	yes, as a term	yes, as a term
8) CRVnon-midC			
glas 'voice, tune'	no	no	yes
grunt 'soil'	no	farmers might	construction
Ü		use it	workers might
klub 'club; puff'	yes	no	use it yes for meaning 'puff'
krug 'circle'	yes	no	maybe
plug 'plough'	yes	yes, colloquial	yes, young urbanites would say this
priz 'prize'	yes	no	maybe a villager would say this
prud 'pond'	no	no	yes
sklad 'storehouse'	yes	yes	no
strug 'plane, boat'	yes	maybe	maybe
fljus 'dental	no	no	maybe
abscess'	.:		-
šljax 'highway'	no	no	maybe

O) PW				
9) RVnon-midC				
<i>lad '</i> harmony'	no	no	no	
raz 'time'	yes	maybe	yes, colloquial	
rjad 'row'	yes	no	maybe	
10) CVnon-midC				
bas 'bass'	yes	no	yes	
<i>buj '</i> buoy'	no	no	yes	
bunt 'mutiny'	yes	no	maybe	
dub 'oak'	yes	no	no	
dym 'smoke'	no	maybe in poetry	no	
zad 'back'	yes	no	no	
kvas 'beverage'	no	yes, as a term	no plural	
kub 'cube; still'	yes	yes, as a term	no	
kus 'morsel'	no	no	no	
mys 'promontory'	yes	yes, as a term	maybe among sailors	
niz 'nether parts'	yes	yes, because Dpl	no	
		is po nizám		
paz 'groove'	no	yes, as a term	no	
paj 'share'	no	no	no	
pan 'gentleman'	no	no	no	
<i>pud</i> 'unit of weight'	no 	no	no	
sad 'orchard'	yes	l ∣no l	no	
sup 'soup'	yes	yes	no	
taz 'basin'	yes	no	no	
us 'whisker'	no	no	no	
čas 'hour'	no	no	no	
škaf 'cupboard'	no	no	no	
škiv 'pulley'	yes	yes, as a term	yes	
štab 'headquarters	no	yes, soldiers	maybe peasants	
-		might say this	who had never	
			been to war	
			would say this	
jus 'nasal vowel'	no	yes (no _	

11) CVmidCR¹⁰ smotr 'inspection' no no

Table 3 contains the results of various tests that were done with this set of nouns. The first test was a search for the noun among the entries of attestations of N(A)pl -á given by Ivanova (1967: 69-77).

Ivanova's database can be thought of as a maximal projection of the extent of N(A)pl -a in modern Russian; Ivanova cites every instance

of N(A)pl -a to be found in sources from the 19th and 20th centuries, twenty-seven sources are grammars and dictionaries of Russian (among them sources such as Dal"s Tolkovyj slovar' that include dialectal forms), and the remaining thirty-eight are literary works by Russian and Soviet authors (also including authors such as Majakovskij and Šoloxov, who do not shy away from unusual or dialectal forms). In all, Ivanova lists 648 words for which N(A)pl -á has been attested. Of these, only about 250 are literary forms; the use of N(A)pl -á with the remaining 400 words is classed as specific to some circumstances, being identified as archaic, regional, folkloric, poetic, professional jargon, or colloquial. Ivanova cites N(A)pl -á forms for thirty-five (54%) of the sixty-five words in table 3.

consultants, who were asked whether they thought that other speakers of Russian might use the N(A)pl -a form (the assumption was that because both consultants were teachers of Russian, they were thoroughly versed in the prescriptive norms of the literary language, and would reject the possibility that they themselves

The words in Table 3 were also presented to two native

would ever use such forms). The table summarizes their responses. The consultants were not given a slate of multiple choice alternatives, nor were they coached in any way about how they should respond, but were free to give as much or as little information as they wanted. Their responses show that speakers draw on their knowledge of a variety of domains when judging the acceptability of forms, among them their knowledge of paradigms, of linguistic categories, and of cultural factors. Before answering, Speaker 1 typically rehearsed the plural paradigm out loud, checking the N(A)pl -a form against the Dpl, Ipl, and Lpl. For this speaker, the suggested abduction that nouns can have an agglutinative plural paradigm (with -a- marking

Because stem type 11) CVmidCR contains only one stem with uniformly negative results, it will be ignored in the remainder of the analysis.

tered that the noun in question had no plural at all (much less the N(A)pl -a); the nouns identified as being singular only were: kon 'kitty' (games), pot 'sweat', pal 'bollard, pawl' (naut.); 'fire' (dial.), and kvas 'beverage'. Both speakers rejected some words on the grounds that the N(A)pl -á would clash with a homonym, thus *rojá 'swarms' was predicted to clash with rajá 'paradise' (Gsg), *borá 'coniferous

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well hold true. In a number of instances, one of the speakers coun-

forests' was predicted to clash with bord 'NE wind on the Black Sea', *valá 'shafts' was predicted to clash with volá 'ox' (Gsg), and *pará 'steams' was predicted to clash with porá 'time'. The remainder of the comments made by the native consultants are remarkably parallel in their classification to those suggested by Ivanova (though neither of the consultants was familiar with this article). *Xorá 'choirs' sounded archaic to one speaker, and to the other speaker *mirá 'peaces, worlds' sounded poetic, like something that the Russian symbolists might use. The reaction to *priza 'prizes' as something that a villager

would say suggests that this use sounds folkloric. Both *plugá 'ploughs' and *razá 'times' were judged colloquial. There are thirteen responses that seem to be connected to professional jargon, and some of these contain the further judgment that segments of the population that are either very familiar with the given word or are very unfamiliar with it are likely to use N(A)pl -á forms. It was suggested that farmers and construction workers would view grunt 'soil' as a technical term, licensing their use of *gruntá; in a similar way, cheese workers were thought likely to use *syrá 'cheeses'. On the opposite end of familiarity was the comment made by Speaker 2 that young urbanites (who would be thoroughly unfamiliar with farming

implements) might use *plugá 'ploughs' on the assumption that this form is used by farmers. Responses to *štabá 'headquarters' drew on assumptions about groups that were both very familiar and very unfamiliar with this word, since Speaker 1 suggested that soldiers might say this, whereas Speaker 2 volunteered the information that this was likely to be heard from peasants who had never been to war.

One further test, not indicated in Table 3, was carried out on the

set of nouns for which N(A)pl -a is not sanctioned in the literary language. From each of the first ten stem shapes, the noun that appeared most likely to yield N(A)pl -á forms was chosen, based

upon Ivanova's citations and the judgments of the two speakers. All of these nouns were then checked against the largest online searchable database of texts available to this author (the texts for the entire vear 1998 for about two dozen major Russian newspapers, available

out to be Gsg, not N(A)pl forms) were unfortunately negative. However, there were two kinds of negative results, and there is something to be learned from them. Four of the nouns in the original sample turned up no hits whatsoever in this enormous database: zobá 'bird's crop' (Gsg/*N(A)pl), plugá 'plough' (Gsg/*N(A)pl), skladá

involved checking through thousands of "hits," all of which turned

'storehouse' (Gsg/*N(A)pl), and škivá 'pulley' (Gsg/*N(A)pl). It is somewhat remarkable that 40% of the nouns that appeared most likely to use N(A)pl -á are also so rare that they did not even appear in the database. For each negative result of this type, another noun was chosen and run through the database. Strugá 'plane, boat' (Gsg/*N(A)pl), the second choice for the CRVnon-midC stem shape,

(Gsg/*N(A)pl), the second choice for the CRVnon-midC stem shape, turned up only thirteen hits (all of which were Gsg forms). The remaining words turned up 160 or more hits (though all were Gsg forms): xorá 'choir' (Gsg/*N(A)pl), portá 'port' (Gsg/*N(A)pl), rodá 'clan' (Gsg/*N(A)pl), vozá 'cart' (Gsg/*N(A)pl), žirá 'fat' (Gsg/*N(A)pl), spirtá 'alcohol' (Gsg/*N(A)pl), rjadá 'row' (Gsg/*N(A)pl), and basá 'bass' (Gsg/*N(A)pl). We should also note that six of the total of fourteen likely candidates for N(A)pl were foreign words. The results of this test suggest that N(A)pl -á is associated with words that are foreign and/or relatively rare in printed prose.

This is not intended as a statistically significant study (and it is probably not really worth doing such a study given the small sample.

foreign words. The results of this test suggest that N(A)pl -\$\alpha\$ is associated with words that are foreign and/or relatively rare in printed prose.

This is not intended as a statistically significant study (and it is probably not really worth doing such a study given the small sample of nouns involved), but rather as an attempt to show the hierarchical structure within the category of monosyllabic nouns that actually or potentially realize N(A)pl -\$\alpha\$. Indeed, the structure observed here parallels and thereby confirms the structure suggested by Worth (1983) for longer stems. Table 4 on the following page

juxtaposes information recorded in Tables 2 and 3, and also presents

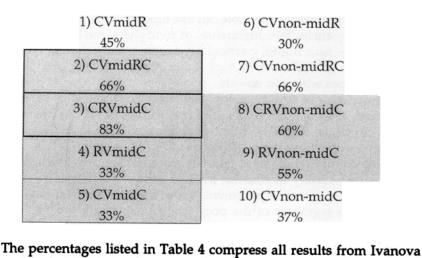
a map of these hierarchies.

these sequences in the West and South Slavic languages.

The problem of sample size is endemic to *tŭrt/trŭt* stems; witness the failure of Slavists to discover any coherent rules governing the outcomes of

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Table 4: Map of Hierarchies



not very significant, but they do follow the general cline of preferences). 2) CVmidRC and 3) CRVmidC (i.e. the reflexes and their look-alikes) emerge as the prototype for the category of monosyllabic stems that use N(A)pl -á. These two stem types show a nexus of factors, such as high percentages of officially sanctioned N(A)pl -á forms and high likelihood of N(A)pl -á use with other words. The shaded boxes identify those stem types for which there are nouns that have N(A)pl -á forms officially recognized in the literary language. Shaded boxes with borders (both thick and thin) identify stem shapes for which 50% or more of the prosodically available nouns have N(A)pl -4 forms officially recognized in the literary language. The table is arranged to show minimal deviations from the prototype in terms of stem shape. The left column represents stems with mid vowels, whereas the right column represents the same stems with non-mid vowels. 1) CVmidR and 4) RVmidC deviate from the prototype in that a consonant has ben

removed from one or the other end of the stem. 5) CVmidC is yet a further deviation, for it lacks the liquid that is characteristic of stems that use N(A)pl -á. Ultimately this table could be conceived of as a ring (in which the top and bottom rows would be contiguous), for 1) CVmidR and 5) CVmidC likewise differ minimally in that the liquid is replaced by a consonant or vice-versa. The table shows that the patterning of words that do have an officially sanctioned N(A)pl -á is

and from the two speakers; they are the percentage of non-negative responses for all nouns of the given stem shape (they are of course minimal differences. Two hierarchies of stem shape can be identified. The presence of a liquid, particularly when it precedes the vowel increases the likelihood of N(A)pl -á, and there is a clear preference for stem shapes with mid vowels.

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The question of why some monosyllabic stems attract the N(A)pl-a whereas others do not is certainly very minor, but it demonstrates the way in which linguistic information is organized. There is clearly a pattern overarching the distribution of N(A)pl-a in both monosyl-

labic and multisyllabic stems, and this pattern integrates information from a great variety of sources, such as segmental shape, prosodic characteristics, as well as judgments about the meaning of nouns and how various segments of the population of speakers are likely to

interact with them. Even when the behavior of linguistic categories cannot be described as being rule-governed, this does not in any way imply that it is random or erratic. Such behavior is orderly and well-motivated, and also interesting to investigate, even if it does not yield any absolute predictions.

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