

“Word-Formation as Grammaticalized Metonymy: A Contrastive Study of Russian, Czech, and Norwegian”

Laura A. Janda
Universitetet i Tromsø

Main Idea

- **Role of metonymy in grammar**
 - Metonymy as the motivating force for **word-formation**
 - Metonymy is **more** diverse in grammar than in lexicon
- Why this has been previously ignored
 - Most linguistic research on metonymy has focused on
 - **lexical phenomena**
 - **languages with relatively little word-formation**

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Overview

1. The Big Picture: why study metonymy in grammar?
 - Cognitive structure of information
2. Relevant Previous Scholarship
3. Databases: Russian, Czech, Norwegian
 - Size & structure of databases
 - Metonymy & Word class designations
 - Specificity of suffixes
4. Observations
 - Comparison across domains (lexicon vs. grammar)
 - Directionality of metonymy
 - Comparison across languages
5. Conclusions

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1. The Big Picture

- Metonymy is a way of establishing a **mental address system**
- A more salient item (vehicle) is used to access another item (target)



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Example 1 of (lexical) metonymy



- We need a good head for this project

(good) head
vehicle
part



(smart) person
target
whole



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Example 2 of (lexical) metonymy



- The milk tipped over

milk
vehicle
contained



glass
target
container



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Russian example of grammatical metonymy



- *брюхан* 'pot-bellied person'

брюхо
vehicle
part

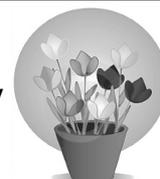


брюхан
target
whole



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Czech example of grammatical metonymy



- *květináč* 'flower-pot'

květina
vehicle
contained



květináč
target
container



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Why study grammatical metonymy?

- Grammatical structures are more systematic, more indicative of information structure than lexical structures
- Compare lexical vs. grammatical metonymy
- Compare grammatical metonymy across languages
- May indicate information structure in brain

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2. Relevant Previous Scholarship

- | | |
|---|-------------------------------------|
| • Works on metonymy | • Works on word-formation |
| – say almost nothing about word-formation | – say almost nothing about metonymy |

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Works on metonymy

- Focus on lexical metonymy and on describing difference between metonymy and metaphor
- **Jakobson [1956] 1980**; Lakoff & Johnson 1980; Lakoff 1987; **Langacker 1993**; Croft 1993; Kövecses & Radden 1998; Radden & Kövecses 1999; Seto 1999; **Panther & Thornburg 1999, 2002, 2007**; Barcelona 2002, Kövecses 2002, **Padučeva 2004**, **Peirsman & Geeraerts 2006**

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Jakobson [1956] 1980

- Metonymy is based on contiguity.
- “Also, as a rule, words derived from the same root, such as *grant* -- *grantor* -- *grantee* are semantically related by contiguity.”
- “Thus the Russian word *mokr-ica* signifies ‘wood-louse’, but a Russian aphasic interpreted it as ‘something humid’, especially ‘humid weather’, since the root *mokr-* means ‘humid’ and the suffix *-ica* designates a carrier of the given property, as in *nelepica* ‘something absurd’, *svetlice* ‘light room’, *temnica* ‘dungeon’ (literally ‘dark room’).”
- Scholarship has neglected metonymy

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Langacker 1993

- “Metonymy is prevalent because our reference-point ability is fundamental and ubiquitous, and it occurs in the first place because it serves a useful cognitive and communicative function.”
- “By virtue of our reference-point ability, a well-chosen metonymic expression lets us mention one entity that is salient and easily coded, and thereby evoke -- essentially automatically -- a target that is either of lesser interest or harder to name.”
- Principles of relative salience:
 - human > non-human; whole > part; concrete > abstract; visible > non-visible; etc.

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Panther & Thornburg 2002

- Discuss role of metonymy and metaphor in English *-er*

Padučeva 2004

- Shows that the same metonymic semantic relation can be lexical in one language, but marked by word-formation in another

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Peirsman & Geeraerts 2006

- Most comprehensive inventory of metonymy designations
- Focuses primarily on lexical metonymy; grammatical uses do not involve word formation
- Serves as the basis for the system used in my databases
- Will serve as basis for comparisons also (henceforth “P&G”)

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Works on word-formation

- Mainly lists of suffixes and/or relationships
- 3 Reference Grammars: Švedova 1980, Dokulil 1986, Faarlund et al. 1997
- Šanskij 1968, McFadden 1975, Maksimov 1975, Rasch 1977, Townsend 1978, **Lönngren 1978**, Andrews 1996, Janda & Townsend 2000, Townsend & Komar 2000, **Araeva 2009**

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Lönngren 1978

- Meanings of suffixes are relations rather than components, having a converting rather than additive function; 16 are “associative” and 46 are “situative”

Araeva 2009

- Mentions metonymy as a possible motive for word formation, but limited to whole-part/part-whole relationships; her examples are медведь ‘bear’ - медвежати́на ‘bearmeat’, горох ‘peas’ - гороши́на ‘pea’, зверь ‘animal’ - зве́рье ‘animals’

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3. Databases: Russian, Czech, Norwegian

- Based on data culled from Academy/Reference Grammar of each language
- Suffixal word-formation signalling metonymy
 - includes conversion (zero-suffixation)
- Each database is an inventory of **types**
 - no duplicates

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A Type is a unique combination of

- Metonymy designation: vehicle & target
 - *брюхан* is part-whole
 - *квѣтинáч* is contained-container
 - Word class designation: vehicle & target
 - both *брюхан* and *квѣтинáч* are noun-noun
 - Suffix
- (See sample types on handout)

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What the databases do NOT contain

- Word formation that is not metonymical
 - hypocoristics
 - caritives
 - comparative adjectives & adverbs
 - secondary imperfectives
- Compounding
 - all types have only ONE root
- Isolated examples, dialectisms
- Information on frequency

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Challenges in constructing the databases

- Allomorphy or separate suffixes?
- Overlap in metonymies (e.g., part-whole, contained-container, located-location, possessed-possessor)
- Examples with multiple interpretations (e.g., Norwegian *maling* 'paint, painting')
- Extending the P&G inventory to cover all attested types (see next slide)

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Vehicles & Targets



- Relating to **Actions**: action, state, change state, event, manner, time, price-ticket (Czech)
- Relating to **Participants**: agent, product, patient, instrument
- Relating to **Entities**: entity, abstraction, characteristic, group, leader, material, quantity, female (target only), male (target only)
- Relating to **Part-Whole**: part, whole, contained, container, located, location, possessed, possessor

Underlined items have been added

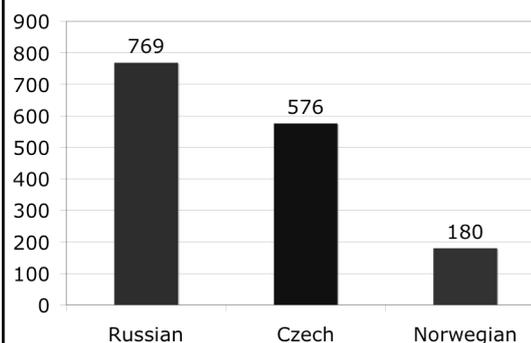
More distinctions made within Actions and Participants 22

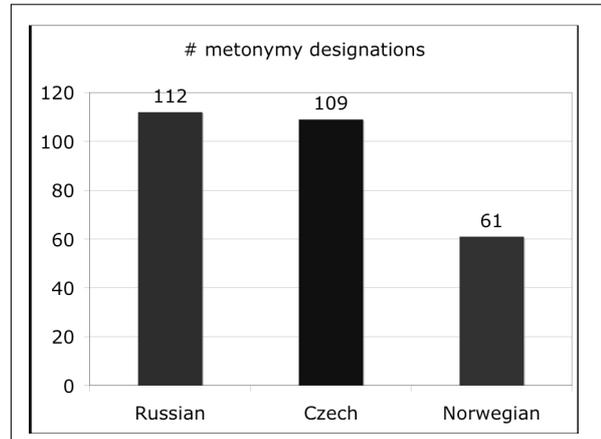
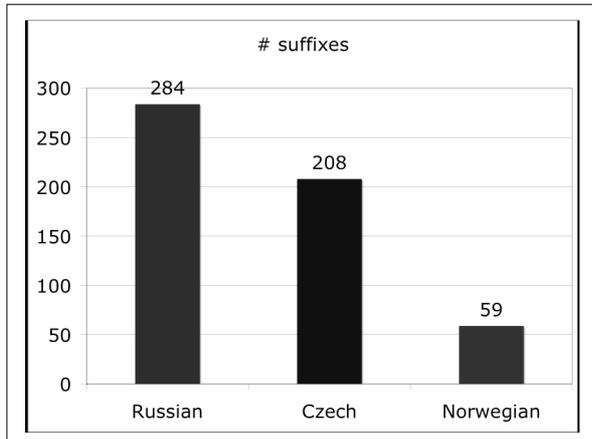
Vehicles & Targets are not “components”

- I do **not** assume a componential analysis via vehicles and targets!
- The unit is the vehicle-target relationship -- a construction that is not just the sum of parts
- Each vehicle-target relationship is unique
- For example, action-agent is different from action-product, not just because of the second member of the relationship

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types





Top 13 Metonymy Designations

- 10 items found on all 3 top 13 lists:
 - abstraction-characteristic
 - action-abstraction
 - action-agent
 - action-characteristic
 - action-instrument
 - action-product
 - characteristic-abstraction
 - entity-characteristic
 - characteristic-entity
 - action-event

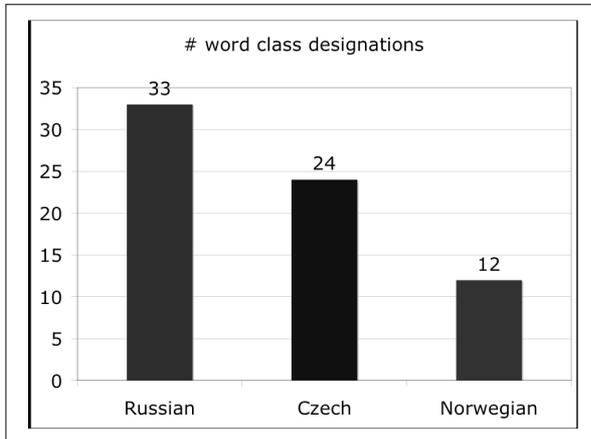
**action is
vehicle for
six of
them!**

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Word-class designations

- Vehicles and targets common to all three languages:
 - adverb, noun, numeral, qualitative adjective, relational adjective, verb
- Vehicles found only in Russian and Czech:
 - pronoun, interjection, sound, preposition (R only).

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Top Ten Word Class Designations

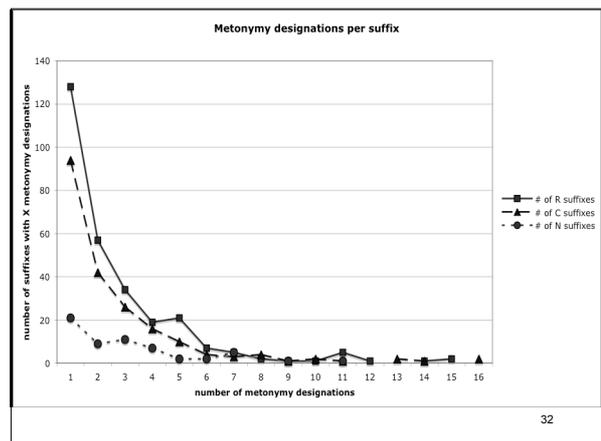
- 8 items found on all 3 top 10 lists:
 - noun-noun
 - verb-noun
 - noun-relational adjective
 - qualitative adjective-noun
 - noun-qualitative adjective
 - noun-verb
 - verb-qualitative adjective
 - relational adjective-noun

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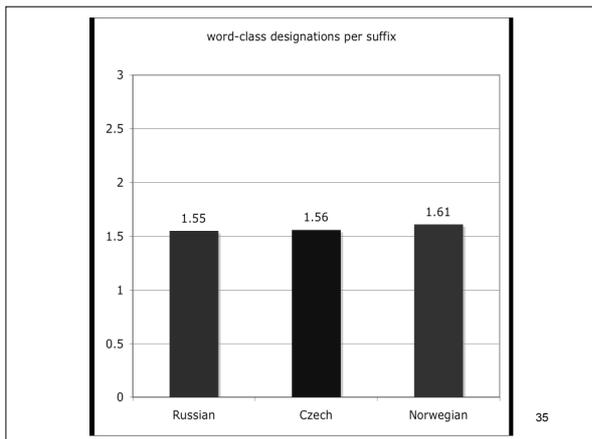
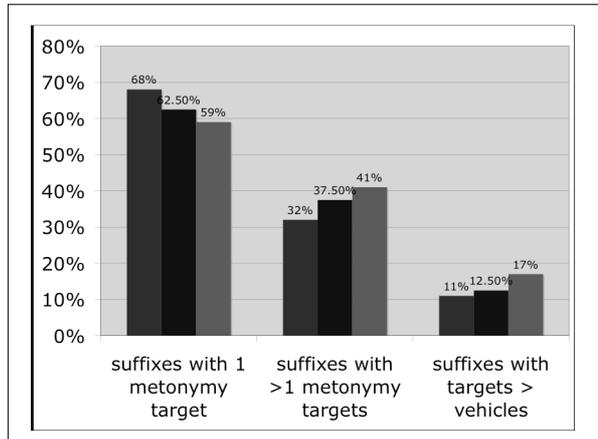
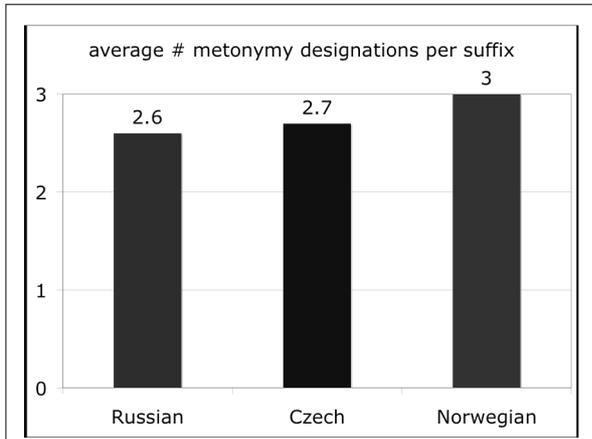
To what extent does a suffix specify metonymy?

- Number of metonymies per suffix
 - Highs: 16 (Czech), 15 (Russian), 11 (Norwegian) metonymies per suffix
 - Lows: only one metonymy for 128 suffixes (Russian), ... 94 suffixes (Czech), 21 suffixes (Norwegian)
 - Average is about 3 metonymies per suffix
- Number of targets per suffix
 - 60% have only one target, but 15% have **more** targets than vehicles

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Suffixes and specificity

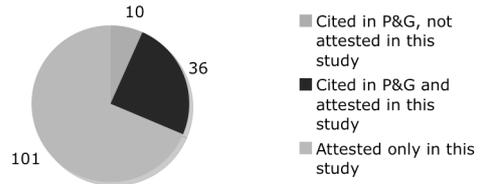
- **Not** specific for metonymy
- **Target** specific for word class
- **What does a suffix mean?**
- “Given this vehicle X, perform a metonymy such that the target is a member of word class Y.”

4. Observations

- Comparison lexicon vs. word-formation
 - Metonymy is more diverse and prevalent in word-formation
 - But some division of labor between the two domains
- Directionality
 - Some metonymies are uni-directional
 - Most bi-directional metonymies are skewed
- Cross-linguistic comparisons

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metonymy designations

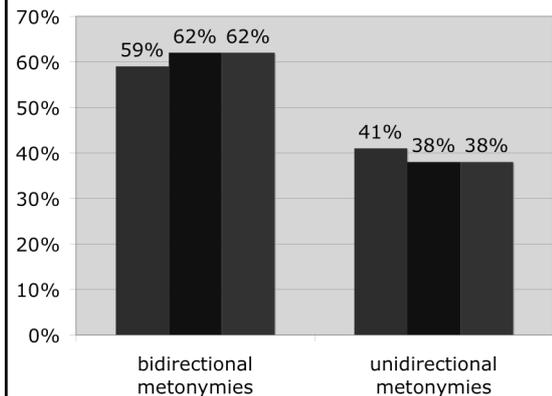


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Lexicon vs. word-formation

- Some frequent lexical metonymies are not attested in word-formation
 - agent-product, potential-actual, hypernym-hyponym
- Some frequent word-formation metonymies are not attested in lexical use
 - abstraction-characteristic, characteristic-abstraction, action-abstraction, action-characteristic

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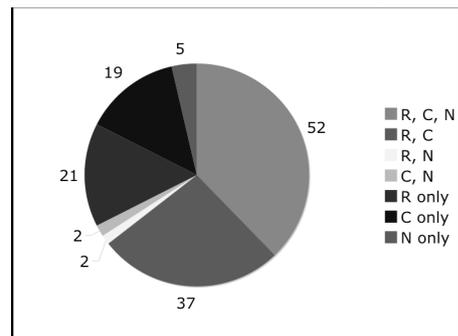


Directionality of metonymies in word-formation

- Robust uni-directional metonymies
 - product-agent, instrument-agent, state-location
- Balanced bi-directional metonymies
 - entity & characteristic, abstraction & characteristic, action & product
- Skewed bi-directional metonymies
 - location-agent, patient-agent, action-agent, action-characteristic, action-instrument, action-abstraction, action-event, part-whole, contained-container, possessor-possessed, entity-female

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Distribution of the 137 metonymy designations by language



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Special investments: Russian and Czech

- location-characteristic
- possessor-possessed
- state-characteristic
- characteristic-location
- part-whole
- characteristic-material

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Special investments: Russian

- entity-female
- instrument-characteristic
- characteristic-characteristic

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Special investments: Czech

- contained-container
- product-location
- quantity-entity

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Special investments: Norwegian

- location-located
- product-agent

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5. Conclusions

- The main purpose of word-formation is to signal metonymy
- Metonymy in word-formation is more diverse than in lexical use
- Different languages make different investments in word-formation to signal metonymy
- Compare lexical vs. grammatical systems of meaning (Talmy 2005)

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