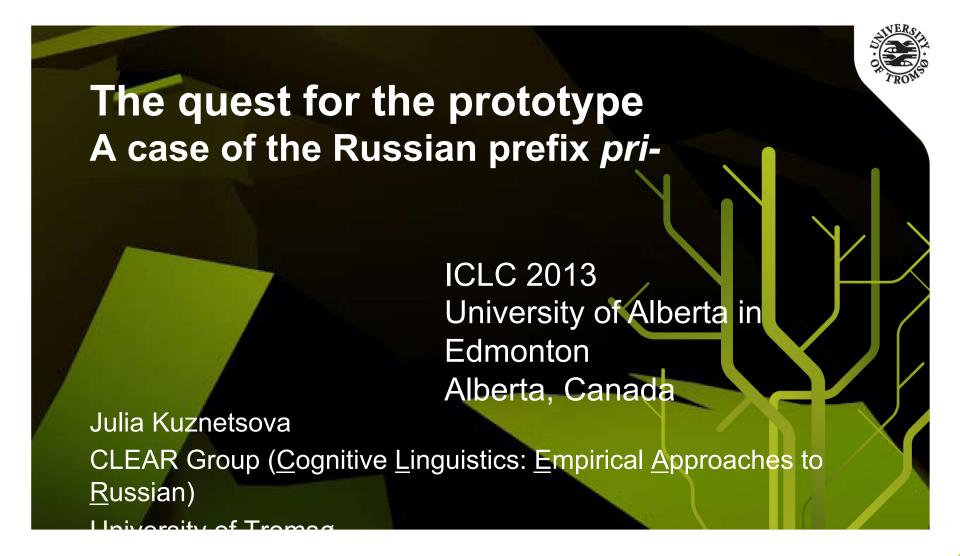
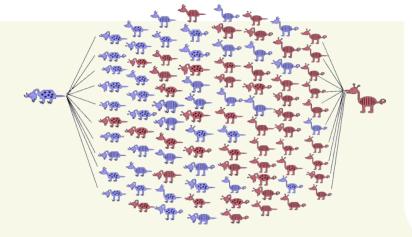
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#### **Questions**





- What is the prototype of the Russian prefix pri-?
  - Different features of a prototype point to different submeanings of the prefix pri-
- What is prototype?
  - Modern cognitive linguistics faces the "the necessity to investigate the phenomenon of prototypicality more thoroughly", since "the notion is far from straightforward" (Guilquin 2006: 180-181) and the prefix *pri* presents a case of inconsistency among features of the prototype

#### Semantic schema of the prefix pri-

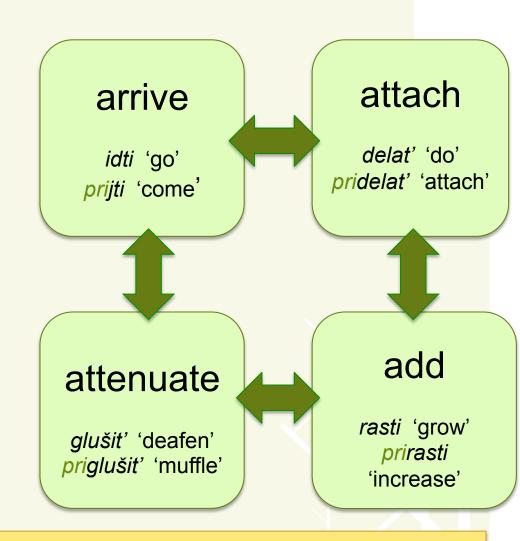
Semantic schema for prefix pri- is 'approaching'

- STEP OF THE PROPERTY OF THE PR
- The trajector is moving towards the landmark and as a result
  - arrives at the close proximity of the landmark (prijti k domu 'arrive towards the house')
  - contacts the landmark (pribit' k stene 'nail to the wall') or
  - arrives inside the landmark (*priexat' v Moskvu* 'arrive to Moscow')

Trajector

#### Submeanings of the Russian prefix pri-

 Submeanings can be divided into four major classes (Dobrushina, Melina, Paillard 2001, Yakunina 2001, Endresen et al. 2012, Janda et al. 2013)



What is the prototype?

#### Features of the prototype



The idea of the prototype seemed to be straightforward when it was introduced, but since then complications have arisen.

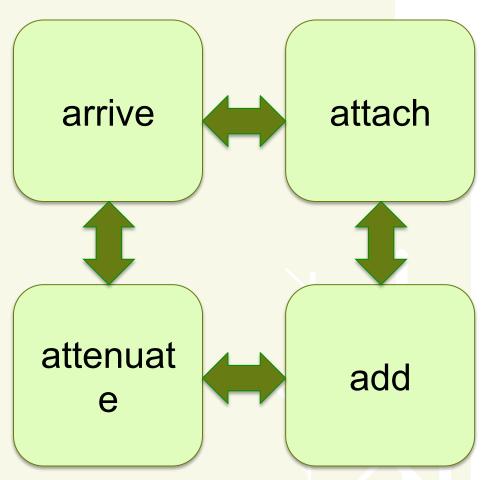


- It became clear that the notion of a prototype also forms a radial category where a prototypical prototype can be characterized by several features (cf. Geeraerts 1988, Gilquin 2006):
- 1) prototype is the center of gravity of a radial category
- 2) prototype contains the most characteristic features of the category
- 3) prototype is concrete
- 4) prototype is the most entrenched item
- 5) prototype is the most salient item

Even though these features often co-occur, it is not always so

#### **Center of gravity**

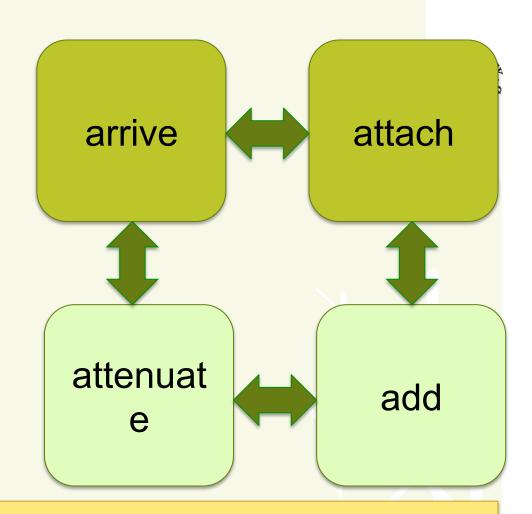
- Most of the nodes in the network are connected to it.
- It is related to most items in the radial category via metaphor or metonymy.
- We produce other items from this most basic meaning.



All submeanings of the prefix *pri-* are equal in the radial category

## Characteristic features of the category and concreteness

- The submeanings ARRIVE and ATTACH are closer to the semantic schema for prefix pri- — 'approaching'
- The same both meanings are most concrete



ARRIVE and ATTACH show prototypical features

## Entrenchment and frequency as its correlate

"Entrenchment" refers to how available linguistic items are in memory

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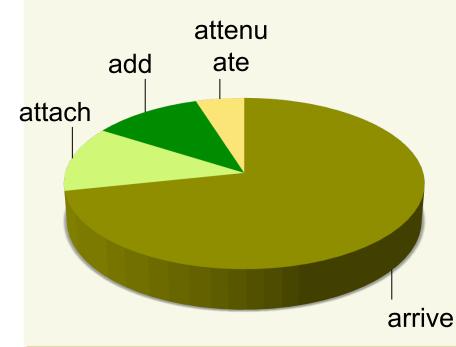
Not entrenched	Entrenched
used rarely	used frequently
require derivation	stored in memory prepackaged

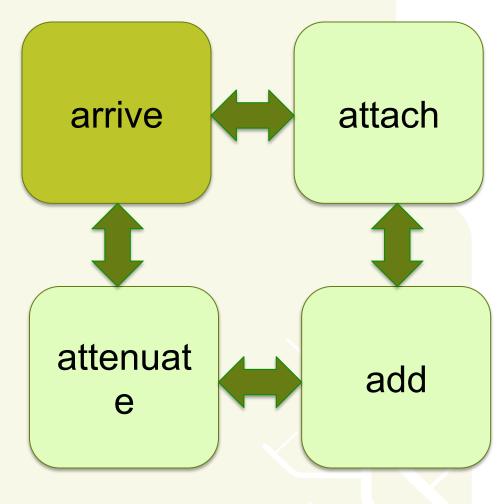
- Schmid (2000: 39) proposes the "From-Corpus-to-Cognition Principle": "frequency in text instantiates entrenchment in the cognitive system"
- Gilquin (2006: 168) notes that "[g]iven the vagueness surrounding the term "prototype"... it comes as no surprise that frequency in linguistic usage has regularly been used as a methodological short-cut to establish the prototype"

Type frequency or token frequency?

### **Token frequency**

Submeaning	PFV
ARRIVE	273 498
ATTACH	47 031
ADD	42 411
ATTENUATE	18 674

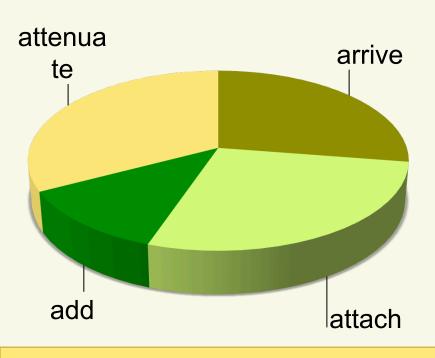


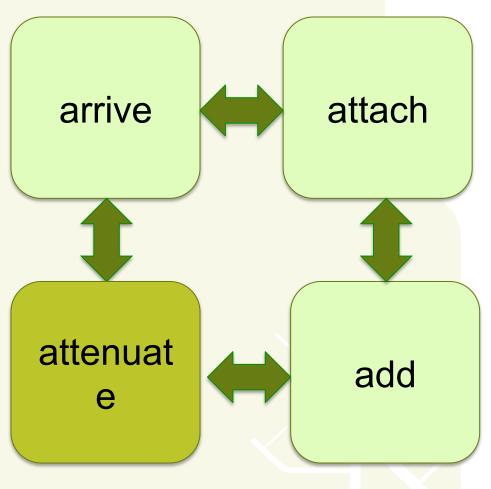


The prototype of the prefix pri- is ARRIVE

### Type frequency

Submeaning	PFV
ARRIVE	173
ATTACH	175
ADD	76
ATTENUATE	206



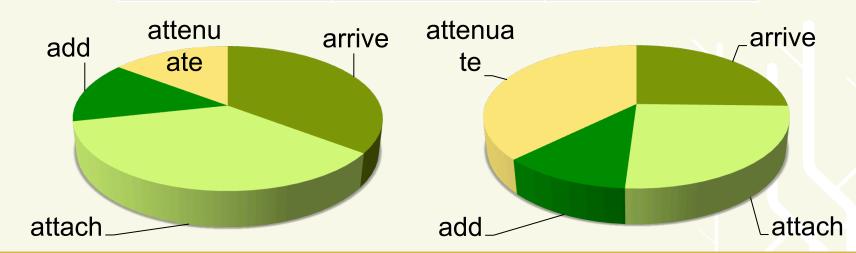


The prototype of the prefix pri- is ATTENUATE

# Type frequency (frequent verbs and non-frequent verbs)

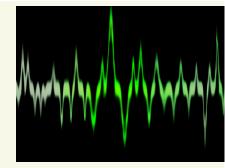
	Frequent verbs (>100 occurrences)	Non-frequent verbs (<100 occurrences)
ARRIVE	46	127
ATTACH	47	128
ADD	18	58
ATTENUATE	19	187





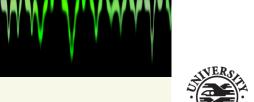
The submeaning ATTENUATE is frequent among rare verbs

## Frequency and productivity (Bybee 2007: 174)



- Forms with high token frequency
  - autonomous
  - more likely to be unanalyzed
  - less likely to participate in schemas
  - do not contribute to the productivity of the pattern.
- Forms with lower token frequency
  - learned more easily if they can be related to other stored forms
  - likely to be analyzed
  - likely to participate in schemas
  - a large number of distinct items with an affix brings the affix more into relief.

ARRIVE is used most frequently, but ATTENUATE is productive 6/25/13



#### Cognitive salience





- The item is most "salient" representative of a category if it is the first that comes to mind
- The item is cognitively salient if it is currently present in the working memory of a speaker
- "Since the use of concepts that are already activated requires minimal cognitive effort, a high degree of cognitive salience correlates with ease of activation and little or no processing cost." (Schmid 2007: 119)

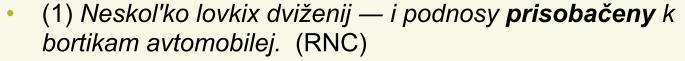
Salience of a prefix: use with pro-verbs

#### Pro-verbs (or joker verbs Krongauz 1998)

- Pro-verbs in Russian:
  - pro-verbs function as a verbal variables similarly to how pronouns function as nominal variables
  - verbal roots cannot be characterized with separate meanings
  - etymologically these roots are usually derived from names of animals and taboo words
- Pro-verbs combine with the prefix pri-, e.g. prisobačit', prikljačit', prifigačit', prixrenačit')
- Prefixed pro-verbs indicate most salient submeaning of the prefix



#### Pro-verbs with prefix pri-



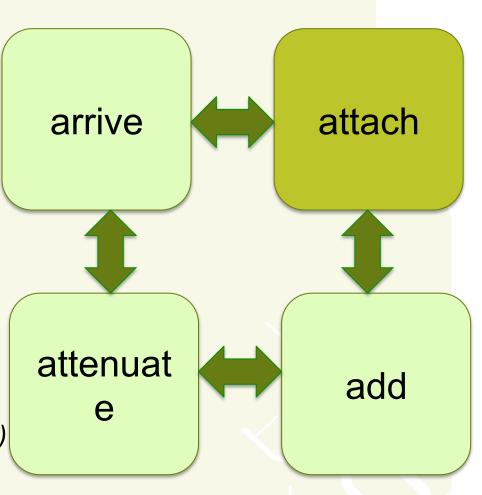


- A few deft movements and trays are attached to the side of the cars.
- (2) K osnovnomu prisposobleniju na podveskax prixrenačena lyža... (RNC)
- To main adaptation a ski is attached using the suspension...
- (3) I stal uglubljat' jamki dlja stojanov, potom pomog postavit' pleten', prikljačil ego k stojanam i ušel. (RNC)
- He began to deepen the holes for the poles, then he helped to put the fence, attached it to the poles and left.
- (4) Kak mikrofon na laptop prifigačit'? (yandex.ru)
- How to attach a microphone to the laptop?

Pro-verbs with the prefix *pri*- have the submeaning ATTACH

#### Pro-verbs (or joker verbs Krongauz 1998)

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The prototype of the prefix pri- is ATTACH

#### Conclusion

Token frequency

- Different prototype features point to different elements of the Radial Category of the prefix pri-
- The meanings ARRIVE and ATTACH
  - show most characteristic features of the category and
  - are most concrete
- Native speakers of Russian employ different strategies
  - The most frequent verbs: ARRIVE
  - The least frequent verbs: ATTENUATE
  - In default setting: ATTACH
- We need to adjust our understanding of the prototype to reflect these different ideas

Characteristic features of the category and concreteness Salience arrive attach attenuate add Type frequency

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