

The Russian Comitative Construction as Relational-Noun Coordination
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1. Russian Comitative construction (RCC)

— Exists in Slavic languages: Russian, Ukrainian, Polish, Czech

(1) [NP_{NOM} [with NP_{INST}]] V_{PL}

(2) Vania s Petej guliali po parku. John _{NOM} with Peter _{INST} walked on park ‘John and Peter walked in the park.’	Russian
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(3) Malchik s devochkoi guliali po parku. boy _{NOM} with girl _{INST} walked on park ‘A boy and a girl walked in the park.’	Russian
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— Similar constructions:

(4) Comitative VP-adjunct Vania gulial po parku s Petei. John _{NOM} walked _{SG} on park with Peter _{INST} John walked in the park with Peter.	Russian English
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(5) <i>And</i> -coordination: Vania i Petia guliali po parku. John _{NOM} and Petia _{NOM} walked _{PL} on park John and Peter walked in the park.	Russian English
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The comitative construction forms a constituent and only coordinates NPs.

2. Interpretation of the comitative construction

— The RCC is very similar to *and*-coordination.

- (6) *distributive / mixed / collective*
- a. Masha s Petei ulybnulis / postroili plot / byli paroj / vstretilis. RCC
 M_{NOM} with P_{INST} smiled / built raft / were couple / met
 ‘Mary and Peter smiled / built a raft / were a couple / met.’
- b. Masha i Petia ulybnulis / postroili plot / byli paroj / vstretilis. *and*
 M_{NOM} and P_{NOM} smiled / built raft / were couple / met
 ‘Mary and Peter smiled / built a raft / were a couple / met.’
- (7) Intersective:
- a. Vania — xudozhnik i poet / *xudozhnik s poetom. *and*-coordination
 John artist and poet /*artist with poet
 ‘John is an artist and a poet.’
- b. Vania — *xudozhnik s poetom. RCC
 John artist with poet

— The RCC is more likely to be interpreted collectively (8) than *and*-coordination or indicates the spatiotemporal proximity of the events in question (9). (As if there is silent *together*.)

- (8) Masha s Petei postroili plot. collective
 M_{NOM} with P_{INST} built raft
 ‘Mary and Peter built a raft (together).’
- (9) Masha s Petei voshli v klass. spatiotemporal
 M_{NOM} with P_{INST} entered in class
 ‘Mary and Peter entered the class (together).’

— The RCC is best used when the members of the construction are somehow related (i. e. *siblings*).

- (10)
- a. ?Eti dva cheloveka — xudozhnik s poetom.
 these two persons artist with poet
 Intended reading: ‘These two people are an artist and a poet.’
- b. Eti dva cheloveka — xudozhnik s poetom, kotorye nenavidjat drug druga.
 these two persons artist with poet who hate each other
 ‘These two people are an artist and a poet who hate each other.’

— The relation between the members of the RCC can be deduced from the context or introduced in a relative clause (Relatedness Requirement).

3. Theories of the comitative construction

McNally, 1993: The RCC is a case of group coordination (Linkian impure atom).

Relatedness Requirement: conventional implicature that the individuals in the denotation of the construction are ‘groupable’ in some intuitive way.

Predictions: Distributive interpretation is always blocked. —WRONG

Dalrymple et al., 1998: The RCC is a case of sum coordination (like *and*-coordination).

The sum denotation of the RCC is a more salient referent than the individual denotations of the members of the RCC, which blocks the application of distributive operators.

Collectivity and distributivity are interpretational properties that depend on the context, not just on the meaning of the conjoined phrase.

A sentence with the RCC can only be interpreted distributively when the collective interpretation is not available (i.e. *smile*).

4. My theory

Goals:

- Achieve better understanding of the relationship requirement
- Get a compositional account of the RCC

I claim that the RCC is a case of reciprocal conjunction, just like relational-noun coordination (i.e. *husband and wife*).

(11) Vania s Petej guliali po parku

Russian

John_{NOM} with Peter_{INST} walked on park

‘Peter’s John and John’s Peter walked in the park.’

— Combine Staroverov’s (2007) theory of reciprocal conjunction & Barker’s (2011) theory of possessives:

(12)

- | | |
|---|-------------------------|
| a. $\llbracket \text{John} \rrbracket = j$ | e |
| b. $\llbracket \text{poet} \rrbracket = \lambda x. \text{poet}(x)$ | et |
| c. $\llbracket \text{husband} \rrbracket = \lambda x \lambda y. \text{husband}(x)(y)$ | $\langle e, et \rangle$ |
- “ y is a husband of x ”

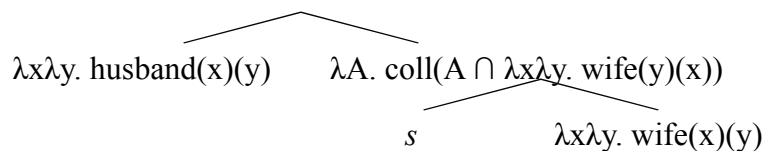
(Barker, 2011)

(Staroverov, 2007)

(Staroverov, 2007)

(14)

b. $\llbracket \text{muzh s zhenoj} \rrbracket = \lambda X \exists x \exists y. X = x \oplus y \wedge \text{husband}(x)(y) \wedge \text{wife}(y)(x)$


$$\begin{array}{c}
\lambda x \lambda y. y=m \wedge R_1(x)(y) \\
\swarrow \quad \searrow \\
\pi \quad \lambda x. (x=m) \\
\quad \swarrow \quad \searrow \\
\quad \text{ident} \quad \text{Mike}
\end{array}
\qquad
\begin{array}{c}
\lambda A. \text{coll}(A \cap \lambda x \lambda y. x=p \wedge R_2(y, x)) \\
\swarrow \quad \searrow \\
s \quad \lambda x \lambda y. y=p \wedge R_2(x)(y) \\
\quad \swarrow \quad \searrow \\
\quad \pi \quad \lambda x. (x=p) \\
\quad \quad \swarrow \quad \searrow \\
\quad \quad \text{ident} \quad \text{Peter}
\end{array}$$
$$\begin{array}{c}
\lambda x \lambda y. \text{artist}(y) \wedge R_1(x)(y) \\
\pi \quad \lambda x. \text{artist}(y)
\end{array}
\quad
\begin{array}{c}
\lambda A. \text{coll}(A \cap \lambda x \lambda y. x=p \wedge R_2(y)(x)) \\
s \quad \lambda x \lambda y. y=\text{poet}(y) \wedge R_2(x)(y) \\
\pi \quad \lambda x. \text{poet}(y)
\end{array}$$

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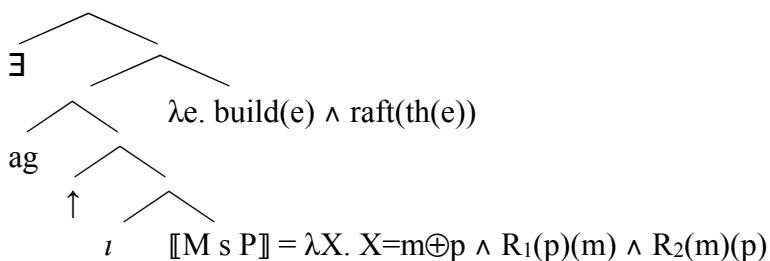
— I claim that the tendency of the RCC to be interpreted collectively, indicate spatiotemporal proximity or the relationship between the members of the construction is the manifestation of the Relatedness Requirement.

The Relatedness Requirement can be met in a number of ways:

— Collective strategy

- (15) a. Misha s Petej postroili plot.
 M_{NOM} with P_{INST} built raft
 ‘Mike and Peter built a raft (together).’

- b. $\exists e. \text{build}(e) \wedge \text{raft}(\text{th}(e)) \wedge \text{ag}(e) = \uparrow[\iota X. X = m \oplus p \wedge R_1(p)(m) \wedge R_2(m)(p)]$



- c. Relatedness Requirement: $R_1 = R_2 = \lambda x \lambda y. \exists e \text{ ag}(e) = \uparrow(x \oplus y)$
 in terms of relational nouns: $R_1 = R_2 = \lambda x \lambda y. \text{colleague}(x)(y)$

— Relational strategy

- (16) Previous knowledge: Mike is Peter's father

- a. Misha s Petej postroili plot.
 M_{NOM} with P_{INST} built raft

- b. $\exists e. \text{build}(e) \wedge \text{raft}(\text{th}(e)) \wedge \text{ag}(e) = [\iota X. X = m \oplus p \wedge R_1(p)(m) \wedge R_2(m)(p)]$

- c. Relatedness Requirement: $R_1 = \lambda x \lambda y. \text{father}(x)(y)$, $R_2 = \lambda x \lambda y. \text{son}(x)(y)$

— Spatiotemporal strategy:

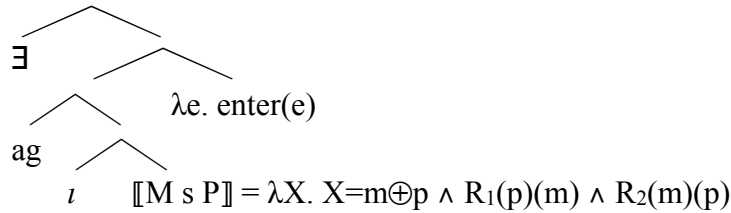
(17)

a. Misha s Petei voshli v klass.

M_{NOM} with P_{INST} entered in class

‘Mike and Peter entered the class (together).’

b. $\exists e. \text{enter}(e) \wedge \text{ag}(e) = [\iota X. X = m \oplus p \wedge R_1(p)(m) \wedge R_2(m)(p)]$



c. $\exists e_1, e_2. \text{enter}(e_1) \wedge \text{enter}(e_2) \wedge \text{ag}(e_1) = m \wedge \text{ag}(e_2) = p \wedge R_1(p)(m) \wedge R_2(m)(p)$

d. Relatedness Requirement: $R_1 = R_2 = \lambda x \lambda y \exists e_1, e_2. \text{ag}(e_1) = x \wedge \text{ag}(e_2) = y \wedge \tau(e_1) = \tau(e_2)$
in terms of relational nouns: $R_1 = R_2 = \lambda x \lambda y. \text{companion}(x)(y)$ (*poputchik*)

— Contrastive strategy:

(18) Dalrymple et al.:

a. Misha s Petei pechatalis v NLLT, a ja tol’ko v LI
 M_{NOM} with P_{INST} published in NLLT, but I only in LI
Collective ✓ Distributive ✓

b. Misha s Petei pechatalis v NLLT
 M_{NOM} with P_{INST} published in NLLT
Collective strongly preferred

Collective: The boys collectively published a paper in NLLT.

Distributive: Misha published paper A in NLLT and Peter published paper B in NLLT.

Distributive interpretation is triggered by the contrastive clause: Mike and Peter are the only people who published in NLLT.

4. Summary:

- The RCC is a case of reciprocal conjunction
- The RCC denotes a sum, and the members of the RCC are related by R_1 and R_2 , which are supplied by the context (except for the relational-noun case).
- The tendency of the RCC to be interpreted collectively, indicate spatiotemporal proximity or the relationship between the members of the construction is the manifestation of the Relatedness Requirement.

5. English: bare noun coordination

Bare noun coordination:

(19) He had pad and pencil to picture the whole event.

(20) Charles went to a wedding. Bride and groom looked happy.

Le Bruyn & de Swart (2014)'s matchmaking semantics

REFERENCES

- Barker, Chris. 2011. Possessives and relational nouns. In von Heusinger, Maienborn, and Portner (eds). *Semantics: An International Handbook of Natural Language Meaning*. HSK 33.2. Berlin: de Gruyter.
- Dalrymple, Mary, Irene Hayrapetian and Tracy Holloway King. 1998. The semantics of the Russian comitative construction, *Natural Language and Linguistic Theory* 16: 597-631.
- McNally, Louise. 1993. Comitative coordination: A case study in group formation, *Natural Language and Linguistic Theory* 11: 347-379.
- Staroverov, Peter. 2007. Relational nouns and reciprocal plurality. In Tova Friedman & Masayuki Gibson (eds.), *Proceedings of SALT 27*, 300–316.
- Le Bruyn, Bert and de Swart, Henriëtte. 2014. Bare coordination: the semantic shift, *Natural Language and Linguistic Theory* 32.