

Exceptive phrases and the negative condition

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Overview

- ▶ The semantics of exceptives
 - ▶ Domain subtraction
 - ▶ The three constraints and some concerns
 - ▶ Predictions made by the negative condition
- ▶ Experimental results on *other than*, *but*, and *except*
- ▶ Parallels with previous work and a proposal sketch
- ▶ Conclusions and open questions

The semantics of exceptives

Exceptive phrases (EPs) are usually treated as restrictors of quantifier domains, minimally requiring domain subtraction:*

$$(1) \quad Q[A] \text{ EXCEPTIVE } C \ P := Q[A - C] \ P \ (+ \ ?)$$

where Q = quantifier, A is its restriction, C is the exception, and P is the sentence-predicate (scope).

EPs therefore entail an associated negatively restricted relative clause (NRR):

- (2) a. **EP:** Everyone *except the linguists* came to the meeting.
 EP: Everyone *but the linguists* came to the meeting.
 NRR: Everyone who is not a linguist came to the meeting.
- b. **EP:** No one *except the linguists* came to the meeting.
 EP: No one *but the linguists* came to the meeting.
 NRR: No one who is not a linguist came to the meeting.

*Hoeksema 1990, von Stechow 1993, Moltmann 1995

Exceptive types

Hoeksema (1987) makes a distinction between **connected** and **free** EPs:

(3) **Connected EPs** (*but, except*; do not extrapose):

- a. Every student *but the linguists* attended the meeting.
- b. **(?)But the linguists*, every student attended the meeting.

(4) **Free EPs** (*but for, except for*; do extrapose):

- a. Every student *except for the linguists* attended the meeting.
- b. *Except for the linguists*, every student attended the meeting.

This arguably corresponds to quantifier co-occurrence restrictions:

(5) Most of the girls *except for Kim*/**except Kim* went home.

but ...

- (6) a. "Bush's memoir will remind most except those on the Left why they liked him."
- b. "I don't have many vices except TV."

Moltmann's 3 conditions on connected exceptives

- (7) **The inclusion condition:** exceptions must belong to the restriction of the quantifier
 - a. ?Every boy *except Mary* came to the party.
 - b. Every boy *but not Mary* came to the party.

- (8) **The quantifier constraint:** the quantifier modified by an exceptive must be universal
 - a. (?)Most boys *except John* came to the party.
 - b. Most boys *except for John* came to the party.

- (9) **The negative constraint:** applying the predicate to the exceptions yields the opposite result
 - a. Everyone *except the students* arrived on time.
 \rightsquigarrow *Everyone not a student arrived on time, and none of the students arrived on time.*
 - b. Everyone *other than the students* arrived on time.
 \rightsquigarrow *Everyone not a student arrived on time.*

The Negative Condition

For Moltmann and von Stechow (1993), the negative condition crucially distinguishes “true” EPs from negatively restricted relative clauses and *other than* phrases:

- (10) a. #John went home, and everyone *except John* went home.
b. John went home, and everyone *other than John* went home.
- (11) a. #John did not go home, and no one *except John* went home.
b. John did not go home, and no one *other than John* went home.

Hoeksema (1987) questions this for free EPs:

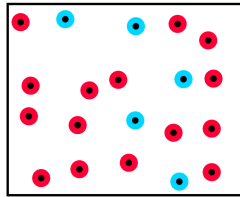
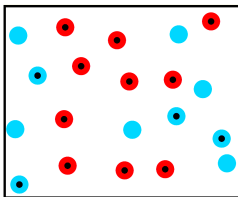
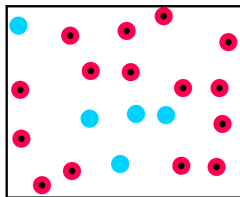
- (12) Everyone *except for Dr. Samuels* has an alibi. Let's go talk to Dr. Samuels and see if he has one, too.

and ...

- (13) Everyone *except/but Dr. Samuels* has an alibi. Let's go talk to Dr. Samuels and see if he has one, too.

Predictions made by the negative condition

Every marble EXCEPTIVE the blue ones has a dot



Connected EP: Every marble except the blue ones has a dot.

Every marble but the blue ones has a dot.

→ *negative condition requires that no blue marble has a dot*

True

False

False

Other-than: Every marble other than the blue ones has a dot.

NRR: Every marble that is not blue has a dot.

→ *no negative condition requirements*

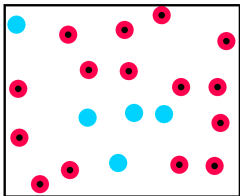
True

True

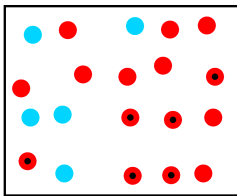
True

Predictions made by the negative condition

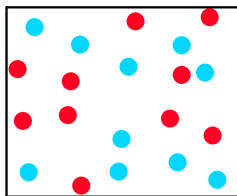
No marble EXCEPTIVE the red ones has a dot



?



??



Connected EP: No marble except the red ones has a dot

No marble but the red ones has a dot

→ *negative condition requires that all red marbles have dots*

True

False

False

Other-than: No marble other than the red ones has a dot.

NRR: No marble that is not red has a dot.

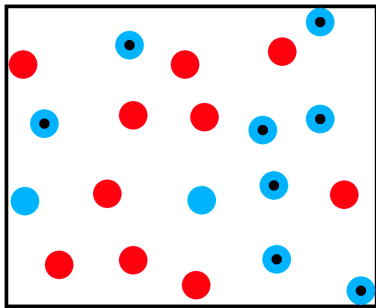
→ *no negative condition requirements*

True

True

True

Experiment design (from Nadathur & Lassiter 2014)



Is the following claim true or false?

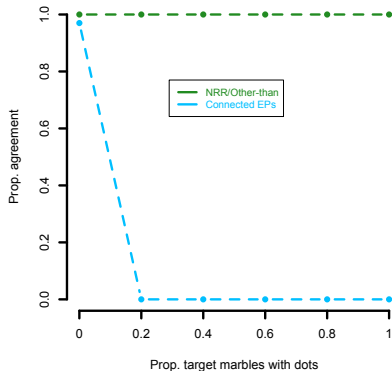
"No marble has a dot except the blue ones."

☐ True ☐ False

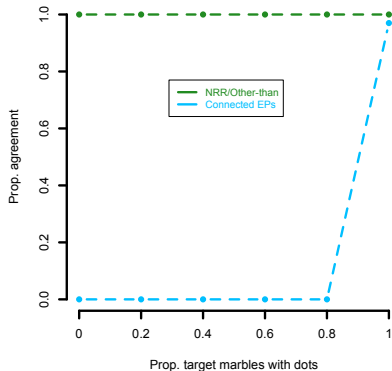
- ▶ Forced-choice T/F
- ▶ Critical trials: quantified sentences containing *except*, *but* (connected EPs), *other-than*, and NRRs
- ▶ **Key manipulation:** prop. of target marbles with dots
- ▶ Parameters: target colour, red/blue marble ratios, high/low EP position
- ▶ 176 native English speakers (MTurk)
- ▶ 48 trials/participant: 12 test, 12 controls, 24 fillers

Predicted results (no pragmatics)

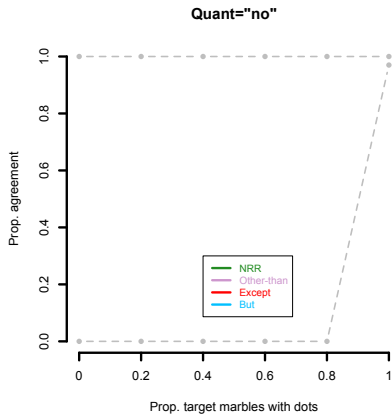
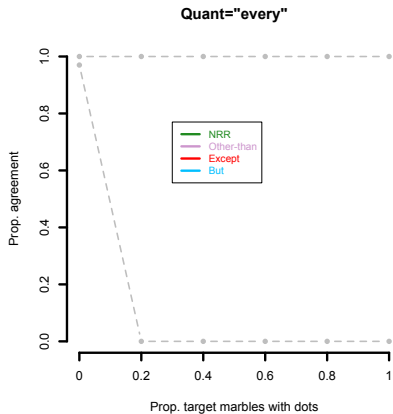
Predicted results, quant="every"



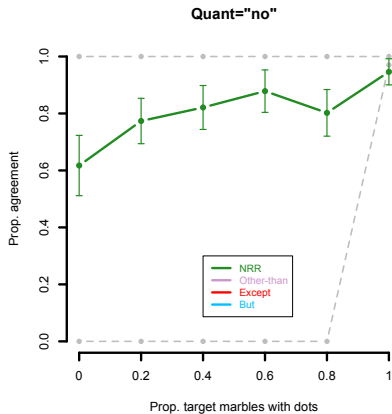
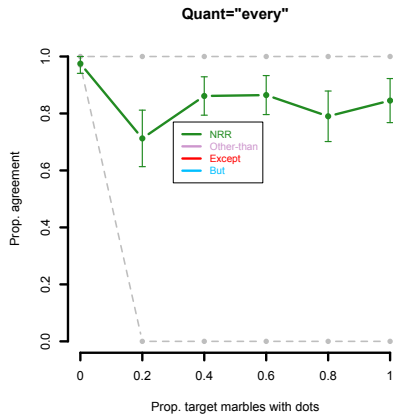
Predicted result, quant="no"



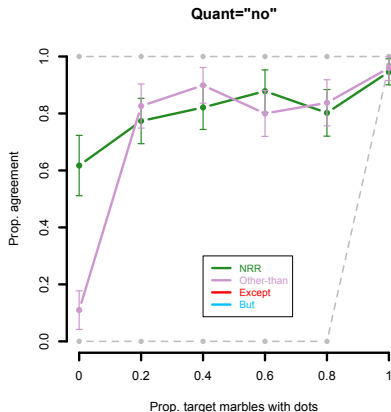
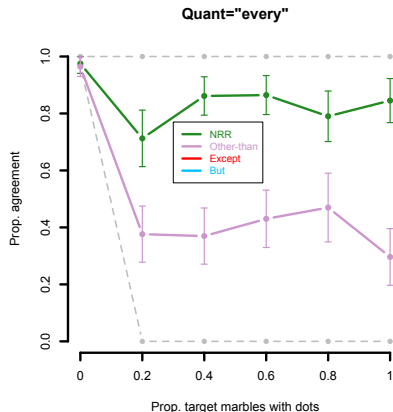
Actual results



Actual results

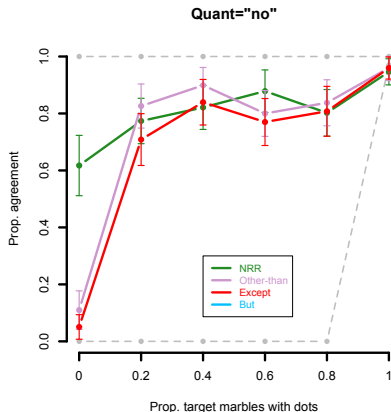
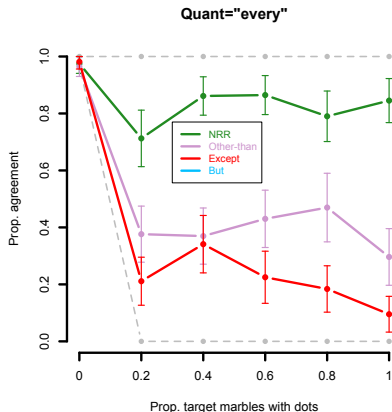


Actual results



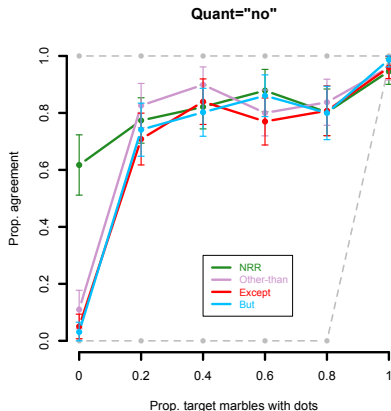
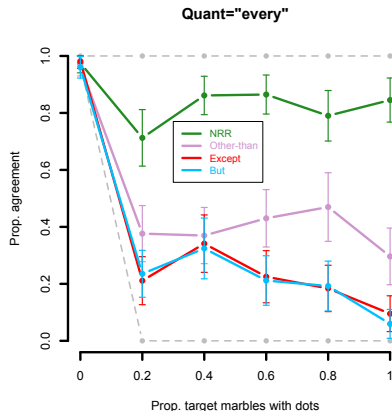
- *other than* does not pattern with NRRs

Actual results



- ▶ *other than* does not pattern with NRRs
- ▶ a semantic negative condition is not supported for *except*

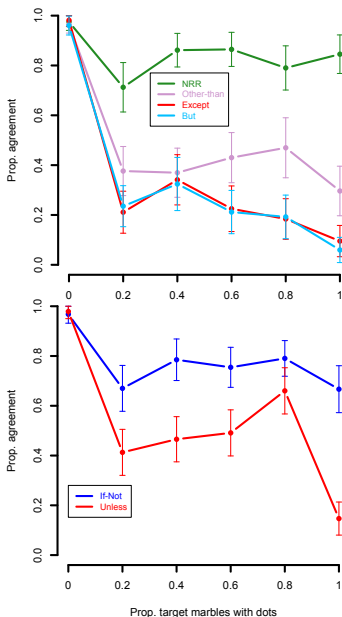
Actual results



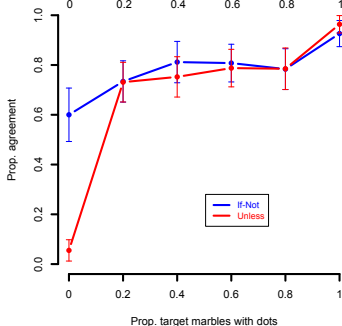
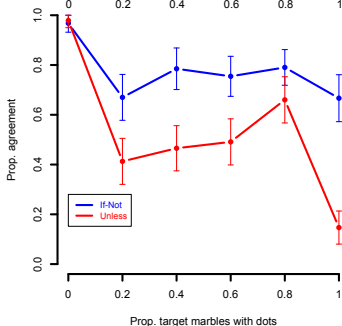
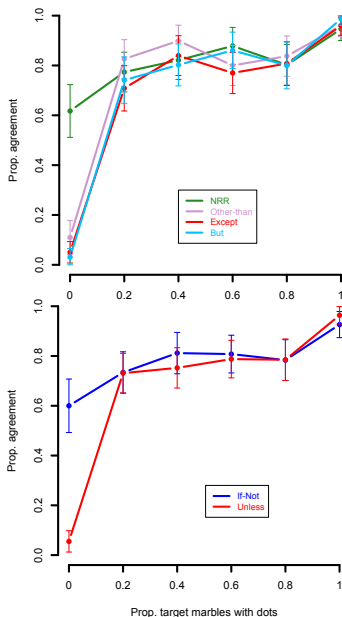
- ▶ *other than* does not pattern with NRRs
- ▶ a semantic negative condition is not supported for *except*
- ▶ *except* and *but* are indistinguishable
- ▶ EPs (*other than*, *except*, *but*) are sensitive to “across-the-board” contexts
- ▶ the positive and negative cases differ significantly (!)

Q = EVERY

Exceptives



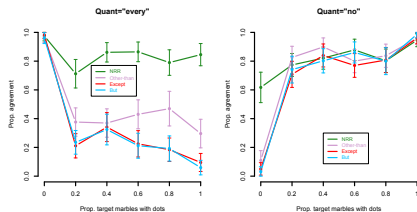
Q = NO



Unless

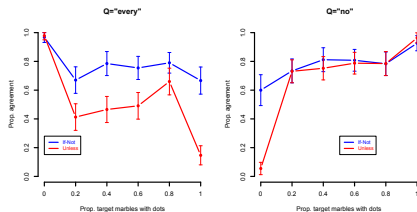
Parallels to earlier work

Exceptives



- ▶ “Across-the-Board” cases:
 $\neg Q[C \wedge A]P$ (cf. Hoeksema)
- ▶ *Except, but* stronger than *other than, unless*
- ▶ Variability is not semantic

Unless



We conjecture:

- ▶ Non-AtB condition is a felicity condition
- ▶ Free vs. connected (strong vs. weak) is pragmatic
- ▶ There is a deep connection between biconditionality strength and quantifier polarity

A proposal sketch

We propose that exceptives have the following semantics (cf. Nadathur & Lassiter 2014):

(14) **Proposal:** $Q[A] \text{ EXCEPTIVE } C P$

DEFINED if and only if $\neg Q[A \wedge C]P$

in which case

TRUE just in case $Q[A - C]P$

The non-AtB presupposition (in effect for EPs, but not NRRs), “draws attention” to the value of P on the excepted set C , and “invites” an inference to the negative condition.

Open question: Why is this invitation absent under the negative universal quantifier? (And how does it vary in strength?)

Generalizations and the negative condition

Garcia-Alvarez (2008) points out:

- (15) Few *except locals* know that Cz. has a wine industry
- ▶ *Few* and *except C* supposedly do not co-occur (but ...)
 - ▶ The negative condition does not apply here:
“Few” non-locals know, and the locals **also** know

Consider:

- (16) a. Everyone *except locals* knows that Cz. has a wine industry.
b. No one *except locals* knows that Cz. has a wine industry.
- ▶ (16a) licenses the generalization that “locals don’t know”
 - ▶ (16b) licenses the generalization that “locals do know” (and so does “no one”)

We conjecture that strong exceptionality results from a “conspiracy” between the licensed generalization and the non-AtB condition. How?

Conclusions and questions

Summary:

- ▶ We have identified several patterns apparently characteristic of exceptives:
 - ▶ sensitivity to an AtB precondition
 - ▶ “susceptibility” to biconditionality/the negative condition
 - ▶ a sharp distinction in “intermediate” cases under positive/negative quantifiers
- ▶ We propose a unified *semantics* for strong and weak EPs ...

Open questions and future work:

- ▶ We predict that free exceptives pattern like *unless, other than*
- ▶ We suspect that exceptives are sensitive to context about the speaker's authority and/or motivation (maybe accounting for strong/weak distinction)
- ▶ Does the pos/neg split replicate with other lexical items? In other languages?

References

1. von Fintel, K. 1993. Exceptive constructions. *Natural Language Semantics* 1: 123–148.
2. Garcia-Alvarez, I. 2008. Generality and exception: a study in the semantics of exceptives. PhD thesis, Stanford.
3. Hoeksema, J. 1987. The logic of exception. ESCOL 1987, Miller & Powers (eds). The Ohio State University.
4. Hoeksema, J. 1990. Exploring exception phrases. In *Proceedings of the Seventh Amsterdam Colloquium*, Stokhof & Torenvliet (eds). 165–190.
5. Keenan, E. & J. Stavi. 1986. A semantic characterization of natural language determiners. *Linguistics & Philosophy* 9: 253–326.
6. Moltmann, F. 1995. Exception sentences and polyadic quantification. *Linguistics & Philosophy* 18: 223–280.
7. Nadathur, P. & D. Lassiter. 2014. In *Proceedings of Sinn und Bedeutung* 19: 426–444.