The only class

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http://kvf.me/cssl19-only

Today

- Liz Coppock's legal opinion on clausal exceptives
- Scalarity in the meaning of exclusives

Liz Coppock

was asked to provide an expert opinion on the following sentence in a legal contract:

The grants of right of way, telephone (1) easements and energy supply easements shall be free of and appurtenant to each and every part of the land save that the Easement of Right of Way shall only service one dwelling on the dominant land.

the semantics of "A save/except that B", where B is a sentence is: Wherever A and B do not conflict, A and B both hold, but where A and B conflict, B takes precedence over A. Thus a sentence of the form "A save/except that B" does not always imply "A". For example. "You may have any of the candies except that you may not have the blue one" does not imply "You may have any of the candies". In other words, the second clause may "override" part of what is expressed in the first

clause.

There are a number of further constraints on the appropriate use of exceptives, however. One is that the first clause must express a universal claim that ranges over a certain domain (e.g. candies, or parts of the land). Another is

that the second clause must specify an element of that domain to which the generaliza-

tion does not apply.

Furthermore, crucially, the second clause cannot, without violation of linguistic norms, override the first clause to the point that there is no generalization left. Exceptives are only appropriate when the result of removing the exception from the original generalization still

constitutes a generalization over the same

domain.

"The easement shall service each and every part of the land, except that it shall service only the main house" is not pragmatically felicitous, because "it shall service only the main house" does not leave a generalization

over parts of the land behind.

Take-away

 ϕ except ψ

= ϕ expresses a generalization, part of which is overriden by the fact that ψ

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We need a theory of parts of a generalization.

Scalarity

Day Four:

The story so far

Only is a generalized negation, asserting that all alternatives to the prejacent are false.

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Only is a generalized negation, asserting that all alternatives to the prejacent are false.

"all" = "contextually relevant (+ focus-related)"

A small problem

(2) Pauline only saw Alexia and Delphine.

Arguably the alternatives will include Alexia by herself and likewise with Delphine, plus of course Abby and all the others. But (2) doesn't say that Pauline didn't see Alexia.

The standard solution

before only_C (p) = $\forall r \in C : r \rightarrow r = p$

The standard solution

before only_C (p) = $\forall r \in C : r \to r = p$ **after** only_C (p) = $\forall r \in C : r \to p \subseteq r$

The standard solution

before only_C (p) =
$$\forall r \in C : r \rightarrow r = p$$

after only_C (p) = $\forall r \in C : r \rightarrow p \subseteq r$

Only excludes all alternatives that are not entailed by the prejacent

"not entailed by the prejacent"

"not (logically) weaker than the prejacent"

Terminology

This meaning for *only* is sometimes called "logical *only*" or "complement exclusion *only*".

Some non-logical only's

We encountered some *only*'s that don't fit this mold on Monday.

Oh Arsenal

(3) A: How did Arsenal do last season?

B: They only finished in 5th place.

Mailroom clerks

(4) A: Can your friend Jade help us? She works there right?

B: I doubt it. She's only a mailroom clerk.

NB: in both cases, it's given that if the prejacent

is true, it's the only true proposition. A team

one job (ish).

can only finish in one place, an individual has

Non-logical uses with no uniqueness

- (5) I was only [watching TV]_F (when you called).
- (6) I only have [the jack of hearts] $_F$.
- (7) Peter only saw [the secretary of state] $_F$.

Scalar only

Intuition: these *only*'s exclude propositions that are higher on some relevant scale.

- I didn't do anything more important than watching TV.
- I don't have any card of higher value than
- the jack of hearts. Peter didn't see any higher-ranking official

than the secretary of state.

What's a scale?

- A scale is a set ordered by a relation ≤.
- The relation is reflexive and transitive (it's a preorder).
- If it is also antisymmetric, it's called a partial order.

Reflexivity

R is reflexive on *S* iff $\forall x \in S : R(x, x)$.

Irreflexivity/Anti-reflexivity

R is irreflexive/antireflexive on S iff

 $\forall x \in S \colon \neg R(x,x).$

Transitivity

R is transitive on S iff

 $\forall x, y, z \in S : R(x, y) \& R(y, z) \rightarrow R(x, z).$

Symmetry

R is symmetric on S iff

 $\forall x,y \in S \colon R(x,y) \leftrightarrow R(y,x)$

Antisymmetry

R is antisymmetric on S iff

 $\forall x, y \in S: R(x, y) \& R(y, x) \rightarrow x = y$

Asymmetric

R is asymmetric on S iff

 $\forall x,y \in S \colon R(x,y) \to \neg R(y,x)$

Completeness/Connectedness/Connexity

R is complete/connected/connex on S iff

 $\forall x, y \in S: x \neq y \rightarrow R(x, y) \lor R(y, x)$

	Properties satisfied	Name to be used in this work	Other names used in the literature
1.	reflexivity and transi- tivity	quasi-ordering	pre-ordering
2.	reflexivity, transitivity and completeness	ordering	complete pre-ordering; complete quasi-order- ing; weak ordering
3.	reflexivity, transitivity and anti-symmetry	partial ordering	ordering
4.	reflexivity, transitivity, completeness and anti-symmetry	chain	linear ordering; complete ordering; simply ordering
5.	transitivity and asym- metry	strict partial ordering	-
6.	transitivity, asymmetry and completeness	strong ordering	ordering; strict ordering; strict complete ordering

A possible scale of activities

Scalar only (1st attempt)

$$\mathsf{only}_{\mathsf{C},\leq}\left(\pmb{\rho}\right)$$

- presupposes the prejacent p
- asserts that all alternatives r in C such that
 p < r are false

all alternatives higher on the scale are false

Problem: prejacent doesn't project

Klinedinst:

(8) There is no way that Bill only got his BA from [Cal State]_F (his parents were very rich, he was a great student, etc.)

calls into doubt whether Bill got his BA from Cal State

Wrinkle

It seems that it's harder to get a non-logical scalar reading when *only* is negated.

Compare:

(9) Zlatan isn't
$$\begin{cases} only \\ just \\ merely \end{cases}$$
 a mailroom clerk.

(10) Zlatan isn't a mere mailroom clerk.

See Coppock & Beaver for a closer look at scalar readings.

Scalar only (2nd attempt)

$\mathsf{only}_{\mathsf{C},<}(p)$

- presupposes there is a proposition *r* in *C* such that *p* ≤ *r* that is true
- asserts that all alternatives r in C such that p < r are false

Scalar only (2nd attempt)

$\mathsf{only}_{\mathsf{C},\leq}\left(\mathsf{p}\right)$

- presupposes there is a proposition *r* in *C* such that *p* < *r* that is true
- asserts that all alternatives r in C such that p < r are false

 \approx at least p and at most p

Problem: simple scalar *only* too weak

(11) She's only a mailroom clerk.

predicted to be satisfied by her having a job that is at the same level of the scale as mailroom clerk

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This is incorrect.

Scalar only (3rd attempt, Klinedinst)

 $\mathsf{only}_{C,<}(p)$

- presupposes that either p or some r in C
 such that p < r is true
- asserts that all alternatives r in C such that
 p < r are false

Simple only

(12) She's only a mailroom clerk.

now conveys that she's a mailroom clerk and nothing more.

Embedded only

(13) There is no way that Bill only got his BA from [Cal State]_F.

now conveys that the prejacent is false and that something higher on the scale is true.

Unification?

Many people: the "logical/complement exclusion" reading can be seen as a special case of the scalar reading, one where the scale is given by logical entailment

 $p \le r$ iff r entails p (p is logically weaker than r)

Part-whole scale of sets or pluralities

Such a scale induces an entailment scale between propositions, which means that we can treat the logical/complement-exclusion only as a special case.

But isn't there more to scalarity?

Recall the cases of mutually exclusive alternatives:

(14) Arsenal only finished in 5th place last year.

Only seems to say that 5th place is "low" on the scale in a noteworthy way.

Klinedinst (final)

$$\mathsf{only}_{\mathsf{C},<}\left(\pmb{\rho}\right)$$

- presupposes that either p or some r in C
 such that p < r is true
- presupposes that p is low on the scale
- asserts that all alternatives r in C such that
 p < r are false

Full slate of options for the scalar presupposition

- p is low on the scale
- p is unexpectedly low
- p is lowest in C

Greenberg 2019

Infelicitous scalar only

(15) Mira has 2 kids, Paul has 4 kids, and/but Jim has (#only) 3 kids.

Infelicitous scalar only

(15) Mira has 2 kids, Paul has 4 kids, and/but Jim has (#only) 3 kids.

Greenberg argues we should adopt a strong scalar presupposition.

Strong scalar presupposition

only_{C, \leq} (p) presupposes that $\forall r \in C : p \leq r$ p is at the lowest rank of the scale

To make space for partial preorder scales, we can change this to:

only_{C, \le} (p) presupposes that $\neg \exists r \in C : r < p$ Nothing is strictly lower than p.

Obvious problems

(16) Arsenal only finished in 5th place.

There are 15 lower places.

(17) Bill won gold, John only won silver.

finish)?

What about bronze (or even a non-medal

Sequences of only's

- (18) Most people here have many children.Not so Bill and John. John only has 2 children. And Bill only has 3.
- (19) [How much are these shoes?] Well, this pair is only \$40, and this one is (only) \$50.

Greenberg's suggestion

"It seems as though the presence of the only in the first sentence 'shields' [the prejacent], and indicates that [it] does not need to be considered a 'contextually relevant' alternative. Thus, the prejacent of the second only should not be compared to it, but to another higher alternative."

No mirativity

The prejacent being weaker than all the relevant alternatives doesn't necessarily mean that the prejacent is absolutely low. And that seems correct:

(20) Bill won gold, John only won silver.

But often there's mirativity ... Why?

- When C isn't specifically given, it needs to be "accommodated" or constructed "on the fly".
- Principle: accommodate only alternatives that are reasonable, entertainable
- so since p is the lowest among reasonable, entertainable alternatives it is felt to be noteworthily low.

Next week

Day Five (Mon July 22)

Only, NPI licensing, and the syntax of focus

Day Six (Tue July 23)

Only, bare plurals, and bare conditionals

Day Seven (Thu July 25)

(Minimal) Sufficiency

Day Eight (Fri July 26)

The *only* connectives