Decomposing Resultatives: Two kinds of restitutive reading with 'again'

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1. Background: Decompositional theories of VP structure

- · VPs that denote actions with result states
- (1) Max painted the door blue



- The verb root plays the crucial role; It denotes a causative operator:
 - (3) || PAINT || = λpλxλs.[s is a door-painting event and ∃s'[p(s')=1 and CAUSE(s')(s)]]

2. Using '<u>Again</u>' as a structural diagnostic

An ambiguity

(4) Max painted the door blue again.

- <u>Repetitive reading</u> ~ An <u>action</u> is repeated

(4) Could be true in virtue of the fact that Max had painted the door blue once before, and did so a second time.

- Restitutive reading ~ A state is restored

Alternatively, (4) could be true even if Max never painted the door before - for instance if the door had originally been blue, had been painted orange, and Max's painting it blue restored it to its earlier blue state.

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- Again introduces a presupposition
 - (5) Bob sneezed again
- Can be neither true nor false if Bob hadn't sneezed before...
- Again introduces the presupposition that Bob sneezed before
- (5) asserts merely that Bob sneezed, but presupposes that he had done so before as well.

• The structural theory of 'Again' (von Stechow 1996)

- The presupposition is determined syntactically, by again's sister:
 - (6) $||again|| = \lambda p \lambda s$: $\exists s'[s' prior to s and p(s')=1]$. p(s)=1

· Von Stechow's discovery:

 The structural theory of 'Again'
 +
 the decompositional theory

 = An explanation for the ambiguity

- Repetitive readings result from high attachment of again:



- Restitutive readings result from LOW attachment of again:



• However ...

The explanation has a peculiar property

→ TWO structures should yield semantically equivalent <u>Repetitive readings</u>



- This is a consequence of a widely held view of little v [Kratzer 1996]
 - § The *v* denotes a relation between individuals and events (and *not* a causative operator)
- § ... v composes with VP by Event Identification
 (= Predicate Modification of event argument, plus introduction of agent arg.)
- § Consequently, the VP and vP describe the same event (e.g. a door-painting).

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3. Existential operators and 'again'

- (10) Someone sneezed again.
- (11) a. Once again, there was a person who sneezed.
 - b. There is a person who, once again, sneezed.

• Existentials within the scope of 'again'



- Again attached high (to vP)
- Existential DP subject reconstructs into its theta position (spec-vP)
- → Existential presupposition results.
- Existentials outside the scope of 'again'
- (13) Someone wants to sneeze again tomorrow.
- (14) There's someone who sneezed before and who desires that <u>he himself</u> will sneeze again.



- Again attached lower than theta position of Existential DP
- Existential DP can't reconstruct into again's scope
- → NON-existential presupposition

4. Puting it all together:

... Result-State VPs + 'Again' + Existential presuppositions

• What the theory predicts.

- Remember that there are two attachment sites for Repetitive Readings
- ... Both of which could have scope over existential DPs in the verb phrase:





→ Existential presuppositions should ALWAYS be available for <u>Repetitive</u> readings

• The prediction about <u>Repetitive</u> readings is borne out.

Existential Subject:

- (16) Someone painted the door blue again.
- (17) <u>Possible interpretation</u>: There was someone who painted the door blue before, and once again there's someone who painted the door blue.

Existential Object:

- (18) Max painted a door blue again.
- (19) Possible interpretation:

There's some door that Max painted blue before, and once again there's some door that Max painted $\cdot\cdot$

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• What about **<u>Restitutive</u>** readings?

- Remember that only one attachment site ought to be possible...
- ... And it's BELOW the theta-position of the direct object.



- <u>Consequence:</u>
 Existential presuppositions should **NEVER** be available for <u>Restitutive</u> readings
- WHOOPS!
 - The prediction is wrong, however (apparently) ...

Existential presupposition in a Restitutive reading:

- (20) Max painted a door blue again
- → Can be true if there was some door that was blue before, and Max paints some other door blue
 - i.e. <u>There was a door that was blue before</u>, and once again there's some door that is blue

[Beck & Johnson 2004]:

· Max need only have painted the second one!

- Beck and Johnson's fix-up: PRO interpreted as a higher-order variable?

- Unattractive!
- § Ad hoc
- § PRO doesn't seem to have that option elsewhere e.g. (13)/(15).

- An alternative fix-up: The existential actually raises out of the AP small clause (hence could reconstruct)



Unattractive!

- § Would entail that the object is not an argument of the verb
- § Predicts that the object (=small clause subject) is an island for extraction
 - (21) *What person did you keep [a friend of t] waiting?
 - (22) What house did you paint [a door of <u>t</u>] blue?

- A fix-up is not what's needed. Perhaps we've been looking at this the wrong way.

5. One of the underlying assumptions was wrong.

→ What if there aren't two <u>Repetitive</u> positions, but rather two <u>Restitutive</u> positions?



• [PAINT_v] as a stative root?

- (23) $\||\operatorname{paint}\|| = \lambda p \lambda x \lambda e.[e \text{ is an eventuality such that the property of$ *being painted*holds of*x*in*e*, and for some*e'*,*p(e')=*1 in virtue of*e*.
- The VP [v_P the door [v₋ paint [A_P blue]]] expresses the property that is true of an eventuality e just in case the door (a) is in a state of being painted, and (b) is blue in virtue of being painted.
 - → That is, *the property of being a painted-blue object* holds of the door.

• The eventive part of the verb phrase's meaning must come from *little-v*

- (24) $||v|| = \lambda p \lambda x \lambda e. [e \text{ is an event whose agent is } x,$ and, for some e' such that p(e')=1, e' is caused by e.
- In other words, v denotes a causative operator, that could take an essentially stative VP denotation as its first argument, and give it a causing event.

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- · What about Beck & Johnson's Restitutive reading?
 - (20) Max painted a door blue again

(In a situation in which there was some door that was blue before, and Max paints <u>some other door</u> blue)

➔ Now, the Existential presupposition is predicted, if *again* can attach to the higher Restitutive spot:



- → The presupposition is that <u>There was a painted-blue door</u> before
- It is a fact about objects like doors that if they are blue, they are that way in virtue of being painted blue.
- It seems plausible that this is really the existential presupposition in examples like Beck & Johnson's.
- If so, we need not conclude that again is attached lower than the existential for the available restitutive.
- → Thus, under the *stative* assumption about Verb roots, the bad prediction is reversed.

6. Evidence for the alternative assumption?

• We need to try scenarios in which the *higher* restitutive reading would be false...

• Unlike 'doors', natural objects like 'trees' do not typically have their color in virtue of being painted....

· Consider the following scenario...

- It ensures that Again can only be attached to the AP

Scenario A.

One of my birch trees came up blue when it was a sapling; it later turned white like the rest. But I liked the idea of a blue birch tree so much that...

(25) a. I painted it blue again.



→ Low-restitutive reading with NO existential presuposition is fine (once before, <u>it was blue</u>)

b. #I painted one of my trees blue again.



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• Under a slightly different scenario, things change

Scenario B.

All of my birch trees were blue when they were saplings; they later turned white like birch trees are supposed to be. But I liked the idea of a blue birch tree so much that...

(25) b. √ I painted one of my trees blue again.

→ Existential is still *higher* than *Again*, but the presup isn't existential.

One of my trees is such that: I painted it blue (and it had been blue before)

 Finally, just to show that existential presuppositions can arise in this kind of sentence, as long as the scenario is compatible with a <u>Repetitive</u> reading (i.e. Again attached at vP)

Scenario C.

One of my birch trees had been painted blue when I moved in. It later died and had to be cut down. But I liked the idea of a blue birch tree so much that...

(25) b. \sqrt{I} J painted one of my trees blue again.



- In short, existential presuppositions are possible when 'again' can be attached high, as in the repetitive reading (scenario C).
- And they're possible when 'again' is attached in the middle to the VP which should now be a kind of restitutive reading (Beck & Johnson's example)
- → But if 'again' is attached at the lowest position (at the AP), there's no existential presupposition after all.

8. Conclusions

- At least some verb roots have essentially stative meanings.
- Eventive little-v is a causative operator (contra Kratzer 1996).
- New support for the decompositional theory of VP meanings AND for the structural theory of Again.