

On Non-Culminating Accomplishments¹

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1. Introduction

In English, non-progressive sentences containing accomplishment VPs give rise to culmination entailments. For example, (1) entails that the fixing was completed.

(1) I fixed the fence (# but I didn't finish fixing it).

In this paper we examine the corresponding class of VPs in two Salish languages: St'át'imcets and Skwxwú7mesh.² We first provide evidence that the closest equivalents to accomplishment VPs in St'át'imcets and Skwxwú7mesh - 'control transitives' - do not give rise to culmination entailments. Instead, they have culmination implicatures, which can be cancelled without contradiction.

We then provide an analysis of the Salish data. In both languages, control transitive verbs are derived by suffixation of a transitivizer to a root verb with a single internal argument (Davis 1997, Davis and Demirdache 2000). Unlike control transitives, these underlying root verbs have a culmination entailment which cannot be cancelled. Control transitivizers therefore appear to remove the requirement that culmination happens in the actual world. Our analysis of control transitivizers treats them as introducing inertia worlds in the sense of Dowty's (1977, 1979) analysis of the English progressive.

We close the paper with discussion of the consequences of our analysis for cross-

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² St'át'imcets (a.k.a. Lillooet) is a Northern Interior Salish language spoken in the southwest interior of British Columbia, Canada. Skwxwú7mesh (a.k.a. Squamish) is a Central (Coast) Salish language traditionally spoken in the Squamish Valley, Howe Sound and Vancouver area of BC. Both languages are extremely endangered.

linguistic variation, and for the relationship between culmination properties and temporal duration. We conclude that the Salish data argue against a unified analysis of both ‘accomplishments’ and ‘achievements’ as primitive aspectual classes in natural language.

In the remainder of this introduction we outline some relevant background assumptions about English accomplishments and about (im)perfectivity in Salish.

1.1. English accomplishments

In English, accomplishment VPs are telic (‘have a natural endpoint’) as opposed to activity VPs, which are atelic. A standard test for telicity shows that accomplishments are, but activities are not, compatible with the phrase *in an hour*:

- (2) a. I fixed the fence. ACCOMPLISHMENT; TELIC
b. I fixed the fence in an hour.
- (3) a. I pushed the cart. ACTIVITY; ATELIC
b. * I pushed the cart in an hour.

Culmination is entailed when an accomplishment is non-progressive. We can tell that this culmination is an entailment (rather than an implicature) because of the imperfective paradox. The progressive/imperfective proposition in (4a) does not entail the non-progressive/perfective proposition in (4b); yet if (4b) did not itself entail culmination, then (4a) could not fail to entail (4b). A common solution to the paradox is to claim that (4a) does not entail culmination in the actual world, whereas (4b) does.

- (4) a. I was fixing the fence.
b. I fixed the fence.

1.2. (Im)perfectivity in Salish

Turning to Salish, we make the following background assumptions: (i) predicates are in the perfective aspect if they are not overtly marked as imperfective (Mattina 1993, Mattina 1996, Bar-el in prep.); (ii) Salish perfectives are of the standard type, placing the event time inside the reference time (Matthewson 2004, Bar-el in prep.), as opposed to semi-perfectives (Koenig and Muansuwan 2000) or neutral perfectives (Singh 1998).

Finally, a terminological note: since the class of accomplishment VPs in English systematically corresponds to a certain class of VPs in St’át’imcets and Sk̓wx̓wú7mesh, we will also refer to the latter as ‘accomplishments’. However, since our claim is precisely that the semantics of this class varies cross-linguistically, the very notion of ‘accomplishment’ will ultimately need to be deconstructed.

2. Accomplishments in St’át’imcets and Sk̓wx̓wú7mesh

Accomplishments are distinguishable from activities in both St’át’imcets and Sk̓wx̓wú7mesh by differences in out-of-the-blue judgments about tense and culmination. In the absence of overt tense or aspect marking, the default interpretation of

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accomplishments is in the past, and involves culmination:³

- (5) a. ts'áqw-an'-lhkan ta n-kíks-a
eat-TR-1SG.SU DET 1SG.POSS-cake-DET
'I ate my cake.'
Speaker's comments: "Sounds like you ate all of it." (St'át'imcets)
- b. q'ets'-en-lhkán ti ts'áz'cen-a
hook-TR-1SG.SU DET rug-DET
'I hooked a rug.'
Speaker's comments: "That sounds like a finished product." (St'át'imcets)
- (6) a. na xel'-t-as ta sxwexwiy'am' lha Mary
RL write-TR-3ERG DET story DET Mary
'Mary wrote a story.'
Speaker's comments: "She wrote it...she finished." (Skwxwú7mesh)
- b. chen p'ayak-an ta tetxwem
1SG.SU fix-TR DET car
'I fixed the car.'
Speaker's comments: "You already fixed it." (Skwxwú7mesh)

Activities, on the other hand, can easily be interpreted in the present:

- (7) a. ít'-em-lhkan
sing-MID-1SG.SU
'I sang / I am singing.'
(St'át'imcets)
- b. k'wzús-em ti syáqts7-a
work-MID DET woman-DET
'The woman is working.'
(St'át'imcets)
- (8) a. chen 7imesh
1SG.SU walk
'I walked / I'm walking.'
(Skwxwú7mesh)
- b. chen xaam
1SG.SU cry
'I cried / I'm crying.'
(Skwxwú7mesh)

However, the culmination of accomplishments in St'át'imcets and Skwxwú7mesh is only an implicature. Culmination can be explicitly denied without contradiction:⁴

³ Data are presented in the official orthographies of the languages. Where relevant, the fact that the English translation was volunteered by the consultant is marked with *VG* ('volunteered gloss').

⁴ See also Matthewson to appear, Davis (in prep.), and Bar-el (to appear a,b, in prep.).

- (9) máys-en-lhkan ti q'láxan-a, t'u7 cw7ay t'u7 kw-s tsúkw-s-an
 fix-TR-1SG.SU DET fence-DET but NEG just DET-NOM finish-CAU-1SG.ERG
 'I fixed a fence, but I didn't finish.' (St'át'imcets)
- (10) ts'áqw-an'-lhkan ti n-kíks-a lhkúnsa ku sq'it,
 eat-TR-1SG.SU DET 1SG.POSS-cake-DET now DET day
 t'u7 qelh-cál-lhkan ku k'wík'wena7 t'u natew
 but save-ACT-1SG.SU DET few until tomorrow
 'I ate my cake today, but I saved a little for tomorrow.' (St'át'imcets)
- (11) k'ul'-ún'-lhkan ti ts'lá7-a, t'u7 aoy t'u7 kw tsukw-s
 make-TR-1SG.SU DET basket-DET but NEG just DET finish-3POSS
 'I made the basket, but it didn't get finished.' (St'át'imcets)
- (12) na p'ayak-ant-as ta John ta snexwilh-s
 RL heal-TR-3ERG DET John DET canoe-3POSS
 welh haw k-as 7i huy-nexw-as
 CONJ NEG IRR-3CNJ PART finish-LC-3ERG
 'He fixed his canoe but he didn't finish (fixing) it.' VG (Skwxwú7mesh)
- (13) chen p'ats'-an ta hem'-ten kwi chel'aklh
 1SG.SU sew-TR DET cover-INSTR DET yesterday
 welh haw k-an 7i huy-nexw
 CONJ NEG IRR-1SG.CNJ PART finish-LC
 'I sewed a/the blanket yesterday but did not finish.' VG (Skwxwú7mesh)
- (14) kw John na kw'el-nt-as ta skawts
 DET John RL cook-TR-3ERG DET potato
 welh haw k-as 7i huy-nexw-as
 CONJ NEG IRR-3CNJ PART finish-LC-3ERG
 'John cooked a potato but never finished.' (Skwxwú7mesh)

In Skwxwú7mesh, the event can be continued without inducing a contradiction:⁵

- (15) chen yetl'k-an ta lam' 7i na7-xw chen wa yetl'k-an
 1SG.SU paint-TR DET house PART RL-still 1SG.SU IMPF paint-TR
 'I painted the house and I'm still painting it.' VG (Skwxwú7mesh)
- (16) chen kw'el-t ta smits ti natlh
 1SG.SU cook-TR DET meat DET morning
 7iw'ayti wa7-xw wa kw'el ta smits
 maybe IMPF-still IMPF cook DET meat
 'I cooked the meat this morning and it's still cooking.' VG (Skwxwú7mesh)

⁵ We do not give St'át'imcets data here, due to language-internal complications with the test.

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In both languages, culmination can be questioned without inducing an infelicitous sequence:

- (17) A: q'ets'-en-ás ta tsákwcetn-a kw-s Mary
 weave-TR-3ERG DET rug-DET DET-NOM Mary
 'Mary was weaving a rug.'
- B: wa7 ha t'u7 q'ets'-en-ás
 IMPF YNQ still weave-TR-3ERG
 'Is she still doing it?' (St'át'imcets)
- (18) A: na ch'a7-st-as kwi kw'axwa7 lha Mary
 RL make-CAU-3ERG DET box DET Mary
 'Mary made a box.'
- B: na 7u huy-nexw-as
 RL YNQ finish-LC-3ERG
 'Did she finish it?' (Skwxwú7mesh)
- (19) A: na 7ilhen-t-as ta skawts kwa John
 RL eat-TR-3ERG DET potato DET John
 'John ate a potato.'
- B: na 7u huy-nexw-as ta skawts
 RL YNQ finish-LC-3ERG DET potato
 'Did he finish (the potato)?' (Skwxwú7mesh)

Finally, note that the past tense effect is also cancelable, as shown in (20-23). (Recall that all these sentences are in the perfective aspect. The progressive translations here are an artifact of the English restriction on present-tense eventive predicates.)

- (20) q'wel-en-lhkán ta ts'í7-a, t'u7 cw7aoy t'u7 kw-s q'wel-s
 cook-TR-1SG.SU DET deer-DET but NEG still DET-NOM cook-3POSS
 'I am cooking deer meat, but it isn't done yet.' VG (St'át'imcets)
- (21) máys-en-as ta káoh-a kw-s Bill
 fix-TR-3ERG DET car-DET DET-NOM Bill
 'Bill is fixing the car.' VG (St'át'imcets)
- (22) na mikw'-int-as ta lh_xenptn lha Mary
 RL wash-TR-3ERG DET floor DET Mary
 7i na7-xw wa mikw'-int-as
 PART RL-still IMPF wash-TR-3ERG
 'Mary is washing the floor and she's still washing it.' VG (Skwxwú7mesh)

- (23) na lhen-t-as ta hem'-ten lha Linda
 RL weave-TR-3ERG DET cover-INSTR DET Linda
 7iw'ayti na7-xw wa lhen-t-as
 maybe RL-still IMPF weave-TR-3ERG
 'Linda's making a blanket, maybe she's still making it.' (Skwxwú7mesh)

It is important to emphasize that these data differ qualitatively from data in English. For comparison, two separate surveys of naïve English speakers were undertaken. Both resulted in judgments of marginality or ungrammaticality for an overwhelming majority of test sentences involving perfective (non-progressive) accomplishments with denial of culmination. In other words, the culmination of an English perfective accomplishment is not cancelable – culmination is an entailment, not an implicature. The comments in (24-25) are from different speakers:

- (24) a. # Mary wove a blanket and is still weaving it.
Speaker's comments: "Saying that she wove a blanket means she completed it so how could she still be weaving it?"
- b. # Mary read a book but didn't finish it.
Speaker's comments: "Should say 'Mary started reading a book...but didn't finish it'."
- c. # Mary ate an apple and she is still eating it.
Speaker's comments: "If she ate it, she can't still be eating it – ate implies she's done!"
- (25) A: Mary wove a blanket.
 B1: Did she finish it?
 B2: Is she still weaving it?
Speaker's comments: "Sounds strange...because when you say wove a blanket it means she finished, so why would you have to ask whether she finished it?"

3. Analysis

3.1 Accomplishments are derived from telic roots⁶

The accomplishment VPs we are investigating in St'át'imcets and Skwxwú7mesh are formed by the addition of a control transitivizer to bare roots. These roots are unaccusative (have a single internal argument; Davis 1997), and have culmination entailments (Davis in prep). (26-31) show that bare roots are systematically interpreted in the past:

⁶ Bare roots have not yet been widely elicited in Skwxwú7mesh, but the available Skwxwú7mesh data systematically support the claims made here.

- (35) * na yetl'k ta lam' 7i na7-xw wa yetl'k-ant-as
 RL get.painted DET house PART RL-still IMPF paint-TR-3ERG
 'The house got painted and it's still being painted.' (Skwxwú7mesh)
Speaker's comments: [laughs] "No good."

The denotation of an unaccusative root verb is provided in (36), and the denotation of a sentence containing this root is given in (38). (For the analysis of the St'át'imcets tense system assumed here, see Matthewson 2003, 2004.)

- (36) [[**mays**]]^w = $\lambda e \lambda x$ [x gets fixed in w (e)]

- (37) mays ti q'láxan-a
 get.fixed DET fence-DET
 'The fence got fixed.' (St'át'imcets)

- (38) [[**TENSE_i PERF mays ti q'láxana**]]^{w,g} = $\exists e$ [the fence gets fixed in w (e) & $\tau(e) \subseteq g(i)$] (where $g(i) <$ Utterance Time or $g(i)$ overlaps Utterance Time)

'There is an event e of the fence getting fixed, and the running time of e is included within the contextually salient (past or present) reference time.'

3.2. Control Transitivizers

The control transitivizers in both St'át'imcets and Skwxwú7mesh seem to perform two functions. They introduce an agent in control over the event (which is missing in the bare root), and they remove the requirement of the bare root that the event culminate in the actual world. A denotation which captures these two effects is given in (39).^{7,8}

- (39) [[**CONTROL.TRANS**]]_w = $\lambda f \in D_{<l,st>}$ [λe [e is controlled by its agent in w & $\forall w'$ [w' is an inertia world w.r.t. w at the beginning of e \rightarrow [$\exists e'$ [f (e')(w') & e causes e' in w']]]]] (l = events; Intensional Functional Application is used)

According to (39), CONTROL.TRANS takes a telic verbal root, and ensures that (i) the event is controlled by its agent and (ii) in all inertia worlds, the event leads to the culmination expressed by the root. When applied to the St'át'imcets root *mays* 'get fixed', CONTROL.TRANS says that an agent performs an action which in the normal course of events would lead to the fence getting fixed. This is illustrated in (40-41).

⁷ We confine ourselves here to the prototypical control transitivizers *-Vn(')* (St'át'imcets) and *Vn/-Vt/-Vnt* (Skwxwú7mesh), glossed TR here. Both languages have a number of other transitivizers which could be classified as 'control', as well as 'limited control' (LC: Skwxwú7mesh only) and 'non-control/causative' (CAU) transitivizers. We leave analysis of these for future research. See Thompson (1979), Davis and Demirdache (2000), among others, for discussion of control in Salish.

⁸ For the connection between control and modalization, cf. English *Bob is silly* (non-control) vs. *Bob is being silly* (control). The cross-linguistic parallel here is surely non-accidental, and invites further investigation.

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- (40) máys-en-lhkan ti q'láxan-a
 fix-TR-1SG.SUBJ DET fence-DET
 'I fixed the fence.'
- (41) [[TENSE_i PERF máysenlhkan ti q'láxana]]^{w,g} = ∃e [I am the agent of e & e is controlled by me in w & [∀w' [w' is an inertia world w.r.t. w at the beginning of e → [∃e' [the fence gets fixed in w' (e') & e causes e' in w']]]] & τ(e) ⊆ g(i)]

'I was the agent of an event e, whose running time is including in the contextually salient (past or present) reference time, and which in all inertia worlds causes the fence to get fixed.'

This analysis draws on the modalized approach often used for the progressive (e.g., Dowty 1977, 1979, among many others.). However, the analysis proposed here allows the inertia worlds to branch off at the beginning of the event, rather than at the end of the reference time. Thus, St'át'imcets and Skwǰwú7mesh perfective accomplishments have different truth conditions from English progressives. In the English *I was fixing a fence*, the reference time is contained within the event time, and therefore (within the reference time) the event cannot culminate in the actual world. In St'át'imcets and Skwǰwú7mesh, the event time is inside the reference time (as with any perfective); this event may or may not culminate in the actual world.

4. The Source of the Implicature

Recall that St'át'imcets and Skwǰwú7mesh accomplishment VPs give rise to an implicature of culmination when used out of the blue.

- (42) ts'áqw-an'-lhkan ta n-kíks-a
 eat-TR-1SG.SUBJ DET my-cake-DET
 'I ate my cake.' (St'át'imcets)
Speaker's comments: "Sounds like you ate all of it."
- (43) na xel'-t-as ta sxwexwiy'am' lha Mary
 RL write-TR-3 DET story DET Mary
 'Mary wrote a story.' (Skwǰwú7mesh)
Speaker's comments: "She wrote it...she finished."

We argue that the implicature of culmination arises because in all inertia worlds, the event culminates. In the absence of other information, the hearer assumes that the 'normal' course of events (culmination) takes place.

The fact that the English progressive, which also involves inertia worlds, does not implicate culmination is explained by the presence in English (unlike in St'át'imcets or Skwǰwú7mesh) of a contrasting perfective form which entails culmination. Thus, (44a) is a better way to express culmination than (44b), so (44b) lacks a culmination implicature:⁹

⁹ There are actually perfective transitive accomplishments which entail culmination in St'át'imcets and Skwǰwú7mesh; these take a non-control transitivizer. Further research is required here, but it still holds that for any agent in control of an event, there is no contrasting culminating form.

- (44) a. John built a house. (ENTAILS CULMINATION)
 b. John was building a house. (DOES NOT IMPLICATE CULMINATION)¹⁰

What about the tense effect? That is, why are St'át'imcets and Skwxwú7mesh accomplishments usually translated in the past? We adopt a similar idea here: in St'át'imcets and Skwxwú7mesh, there is a contrasting form (using the imperfective morpheme) which is a better way to express the present imperfective interpretation (since it explicitly makes sure the event is not completed within the reference time). Therefore, the preferred interpretation of a perfective accomplishment sentence is in the past. The perfective / imperfective contrast with respect to tense is illustrated in (45-46).

- (45) a. máys-en-lhkan ta káoh-a
 fix-TR-1SG.SU DET car-DET
 'I fixed the car.' (St'át'imcets)
- b. wá7-lhkan máys-en ta káoh-a
 IMPF-1SG.SU fix-TR DET car-DET
 'I'm fixing the car.' (St'át'imcets)
- (46) a. chen lhen-t ta hem'-ten
 1SG.SU weave-TR DET cover-INSTR
 'I made a blanket.' (Skwxwú7mesh)
- b. chen wa lhen-t ta hem'-ten
 1SG.SU IMPF weave-TR DET cover-INSTR
 'I'm making the blanket.' (Skwxwú7mesh)

Note, however, that as predicted by our analysis, present progressive translations of perfective accomplishments are possible, as shown in (47-48).

- (47) máys-en-as ta káoh-a kw-s Bill
 fix-TR-3ERG DET car-DET DET-NOM Bill
 'Bill is fixing the car.' VG (St'át'imcets)
- (48) A: na 7encha lha Carrie
 RL where DET Carrie
 'Where is Carrie?'
 B: na7 ta lam'-s
 LOC DET house-3POSS
 'At her house.'

¹⁰ Hotze Rullmann (p.c.) observes that we may in fact predict that the English progressive should implicate non-culmination, rather than merely failing to implicate culmination. Further work is required here (including establishing the facts about the implicatures of the English progressive).

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- A: na wa chanem lha Carrie
 RL IMPF do.what DET Carrie
 ‘What is she doing?’
- B: na p’ats’-ant-as ta yekway’-s
 RL sew-TR-3ERG DET dress-3POSS
 ‘She’s sewing her own dress.’ VG (Skw̥w̥w̥7mesh)

5. Implications for cross-linguistic variation

We have proposed in this paper that St’át’imcets and Skw̥w̥w̥7mesh have a culmination requirement in the lexical entries of unaccusative roots.¹¹ Control transitives are all derived from such telic unaccusative roots. The control transitivizer introduces modality: culmination is not required in the actual world for perfective control transitives. While it is not yet known whether this exact analysis is applicable across the Salish family, there is preliminary supporting evidence from at least Sliammon (Mainland Comox; J. Davis 1978, Watanabe 2003) and Senchothen (Northern Straits; Kiyota 2004).¹²

In this section we briefly address the consequences of our analysis for the claim that in languages such as English, German and Finnish, telicity is introduced not in the verbal root, but by a higher functional head (see e.g., Tenny 1994, Borer 1994, Kratzer 2004). This seems to be the reverse of the Salish situation, where underlyingly telic roots are made atelic by a higher functional head. However, the two types of system may not involve radical cross-linguistic variation after all.¹³ Suppose we assume a universal hierarchy of functional heads as in (49):

- (49) [(Im)perfective [Root/inertia modality [Voice [Telic [V]]]]]

Suppose we further assume, following Pylkkanen (2003), that adjacent functional heads may be ‘bundled’ into a single morpheme. We can then propose that in languages like German, the Voice and Telic heads are bundled into a single morpheme (which can also be called Accusative Case; cf. Kratzer 2004). This accounts for the observation that the adding of an accusative object in such languages also induces telicity. In our two Salish languages, on the other hand, bare roots already incorporate Telic, and the control transitivizers represent a bundling of Root/inertia modality and Voice. This accounts for the fact that adding the agent in such languages removes telicity. Finally, the English progressive bundles Imperfective together with Root/inertia modality.

¹¹ It might be possible to strengthen this to the claim that all (non-stative) roots culminate, in which case the requirement could be stated over the whole lexicon, rather than root by root.

¹² See also Travis (2000) on Malagasy and Tagalog. Travis argues for an Inner Aspect head which can introduce ‘incompleteness’. She shows that Malagasy possesses affixes introducing both telicity and atelicity, and moreover that there is a correlation between volition and telicity. Thus, the morpheme *maha-*enforces telicity and also non-volitionality. This directly parallels the Salish situation, where the control transitivizers allow non-culmination, but non-control transitivizers enforce culmination (see fn. 9 above).

¹³ Thanks to Angelika Kratzer (p.c.) for discussion of these issues.

6. ‘Culminativity’ versus ‘Durativity’: Defining Aspectual Classes¹⁴

In this final section we point out that culmination properties must be treated as partially independent of the relative duration of events. This will lead us to claim that neither ‘accomplishments’ nor ‘achievements’ can be treated as primitive aspectual classes.

Consider, for example, the contrast between unaccusative roots and their control transitive alternates in St’át’incets. As we have seen, unaccusatives have a culmination entailment, but control transitives have a culmination implicature. However, other aspectual tests treat the two classes identically (essentially, as consisting of an initial process followed by a final state), in contrast to activities and (resulting) states.

As we have seen, in out-of-the-blue contexts, bare roots and control transitives have a past tense interpretation (50a-b); in contrast, activities have a present or past tense interpretation (50c), and (resulting) states are interpreted in the present (50d).

- (50) a. mays ta káoh-a
get.fixed DET car-DET
‘The car got fixed.’ UNACC. ROOT (St’át’incets)
- b. máys-en-lhkan ta káoh-a
get.fixed-TR-1SG.SU DET car-DET
‘I fixed the car.’ CONTROL TRANS. (St’át’incets)
- c. máys-cal -lhkan ki káoh-a
get.fixed-ACT-1SG.SU PL.DET car-DET
‘I am fixing/fixed some cars.’ ACTIVITY (St’át’incets)
- d. (e)s-máys ta káoh-a
STAT-get.fixed DET car-DET
‘The car is fixed.’ STATE (St’át’incets)

When modified by the imperfective auxiliary *wa7*, unaccusatives, control transitives and activities all yield a process reading, in contrast to resulting states, which yield a (somewhat marginal) temporary state reading:¹⁵

- (51) a. wa7 mays ta káoh-a
IMPF get.fixed DET car-DET
‘The car is/was being fixed.’ UNACC. ROOT (St’át’incets)
- b. wá7-lhkan máys-en ta káoh-a
IMPF-1SG.SU get.fixed -TR DET car-DET
‘I am/was fixing the car.’ CONTROL TRANS. (St’át’incets)
- c. wá7-lhkan máys-cal ki káoh-a
IMPF-1SG.SU get.fixed -ACT PL.DET car-DET
‘I am/was fixing some cars.’ ACTIVITY (St’át’incets)

¹⁴ This discussion is based on St’át’incets; extension to Skwáwú7mesh requires further research.

¹⁵ The imperfective also allows a habitual reading which is not relevant to the discussion here.

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- d. wa7 (e)s-máys ta káoh-a
 IMPF STAT- get.fixed DET car-DET
 ‘The car is fixed (temporarily).’ *STATE* (St’át’imcets)

Finally, when modified by a combination of the perfect aspect marker *plan* (usually translated as ‘already’), plus the imperfective *wa7*, unaccusatives and control transitives are both ambiguous between a process and resulting state reading, whereas activities yield only a process reading, and states yield only a resulting state reading:

- (52) a. plan wa7 máys ta káoh-a
 already IMPF get.fixed DET car-DET
 (i) ‘The car is/was already being fixed.’
 (ii) ‘The car has/had already been fixed.’ *UNACC. ROOT* (St’át’imcets)
- b. plán-lhkan wa7 máys-en ta káoh-a
 already-1SG.SU IMPF get.fixed -TR DET car-DET
 (i) ‘I am/was already fixing the car.’
 (ii) ‘I have/had already fixed the car.’ *CONTROL TRANS.* (St’át’imcets)
- c. plán-lhkan wa7 máys-cal ki káoh-a
 already-1SG.SU IMPF get.fixed -ACT PL.DET car-DET
 ‘I am/was already fixing some cars.’ *ACTIVITY* (St’át’imcets)
- d. plan wa7 (e)s-máys ta káoh-a
 already IMPF STAT- get.fixed DET car-DET
 ‘The car is/was already fixed.’ *STATE* (St’át’imcets)

The results of these tests are summarized in (53). The unaccusative roots and the control transitives behave exactly alike, in spite of differing with respect to culmination:

(53)

	<i>unaccusatives</i>	<i>control transitives</i>	<i>activities</i>	<i>resulting states</i>
<i>out-of-blue</i>	past	past	past/present	present
<i>wa7</i>	process	process	process	temporary state
<i>plan wa7</i>	process/result state	process/result state	process	result state

These tests pick out three aspectual classes: states, activities, and ‘accomplishments’, the last class including both unaccusative roots and control transitives. In other words, (non-instantaneous) unaccusative roots and control transitives have identical aspectual properties as far as (53) is concerned, in spite of the culmination difference we have demonstrated.

What about ‘true’ (i.e., instantaneous or near-instantaneous) achievements? Here, the culmination difference is sometimes neutralized (54-55), but sometimes not (56):

On Non-Culminating Accomplishments

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