Perfective but incomplete accomplishments

Dr María J. Arche University of Greenwich



LEL Research Seminar *University of Manchester,* 28th February 2017

Work in progress

Captatio benevolentiae

Work about

- The event type known as accomplishments,
- Which, however, are understood as *incomplete*
- Even when they appear in the *perfective viewpoint*.
- That is, it is a work about the intertwine of *Event types* with *viewpoint aspect.*

Why is this an issue?

- Well,
- Accomplishments are supposed to entail an endpoint, culmination –that is the classical differentiation from activities:
- (1) Ella ran for three hours.
- (2) Ella ran two miles in three hours.

Lexical or Situation Aspect			
Taxonomy of predicates, event types.	States	Non-actions; express the existence of the thing	Be green, love, hate
Aristotle. Ryle 1949, Vendler 1957, Kenny 1963, Dowty 1979, Smith 1991	Activities	Actions with duration & no inherent endpoint	Wander, swim, push *in an hour
	Accomplishments	Actions with duration & an inherent endpoint	Build a house in an hour
	Achievements	Actions with endpoint but no duration	Arrive, die, awaken

Why is this an issue?

- Especially when they appear in the viewpoint form called *perfective*.
- Why? Because the perfective is the viewpoint that brings the interpretation according to which the situation is *finished*.

Viewpoint aspect

- A semantic category
- Information about the unfolding of the situation;
 - About to start: prospective aspect
 - (1) I am going to read the newspaper.
 - · On-going: progressive aspect
 - (2) I am reading the newspaper.
 - Finished: perfective aspect
 - (3) I read the newspaper.

The semantics of the perfective

Perfective form:

- situation finished;
- bounded;
- closed

Finished what?

Formal analysis based on the ordering on intervals: Klein 1994

The perfective

Klein (1994), Demirdache & Uribe-Etxebarria (2000, 2004, 2007).

Viewpoint as a relation between

- a Topic/Assertion Time (the interval the utterance is about)
- an Event Time (the interval the situation itself may extend over).

The Perfective

- Perfective viewpoint: the AstT and the Event
 Time (EvT) overlap completely.
- The consequence of this ordering is the ensue of the interpretation of 'finished', 'culminated' eventuality' in the case of accomplishments
- That is, culmination is a consequence of an interval ordering operation.

The perfective

(2) a. Juan estuvo enfermo. State

Juan be^{estar}-perfve.3ps ill

b. Juan paseó por la playa. Activity

Juan walk-perfve.3ps by the beach

c. Juan pintó la valla. Accomplishment

Juan paint-perfve.3ps the fence

d. Juan encontró la aguja. Achievement

Juan find-pfve.3ps the needle

- In all of the sentences in the previous slide it is understood that the period of time during which the event took place is over.
- With telic predicates, it is also typically understood that the relevant point needed for the situation to be substantiated has been reached.
- That is to say, perfective accomplishments typically yield the interpretation of 'culminated'.

However

 Facts such as the following ones are attested:

Hindi (Arunachalam & Kothari 2010)

(3) maayaa-ne biskuT-ko **khaa-yaa**Maya-ERG cookie-ACC eat-PFV
par use puuraa nahiin khaa-yaa
but it-ACC finish not eat-PFV

'Maya ate the cookie, but did not finish it'.

Accomplishments in the perfective

Lilooet Salish (St'át'imcets) (Bar-el et al 2005)

(4) máys-en-lhkan ti q'láxan-a, t'u7 cw7ay fix-TR-1SG.SU DET fence-DET but NEG t'u7 kw-s tsúkw-s-an just DET-NOM finish-CAU-1SG.ERG

'I fixed a fence, but I didn't finish.'

Thai (Koening & Muansuwan 2001)

- --Semi perfectives; k^hurn pfve marker.
- (6) Surii tεεŋ kloon khurn tεε jarj maj sed Surii compose poem ascend but still not finish

'Surii composed a/the poem, but has not finished it yet.'

Accomplishments in the perfective

Balkar (Tatevosov 2008)

(7) Kerim esik-ni ac-xan-di, alaj bosa-ma-van-di Kerim door-ACC open-PFT.3ps but finish-neg-PFT.3ps 'Kerim opened the door, but (he) did not finish'

Spanish (Arche 2014a, c)

- (7) Pedro pintó la valla, pero no terminó. Pedro paint-pfve.3ps the fence but not finished 'Pedro painted the fence but he did not finish'
- (8) Juan vació la piscina, pero no terminó. Juan empty-pfve.3ps the pool, but not finished. 'Juan emptied the pool, but he did not finish

Accomplishments in the perfective

Spanish (Arche 2014a, c)

- (7') Pedro pintó la valla, pero no del todo.

 Pedro paint-pfve.3ps the fence but not completely

 'Pedro painted the fence but not completely'
- (8') Juan vació la piscina, pero no del todo.

 Juan empty-pfve.3ps the pool, but not completely

 'Juan emptied the pool, but not completely

Based on traditional tenets

• This should not happen!

The research task

- Identify the source of the phenomenon.
 - Authors that put the weight on the *stem*.
 - This proposal: explore the weight and role of viewpoint semantics.

The research task

- Identify the grammar limits of it examining
 - Variation in the grammar of viewpoint aspect
 - Variation in the stems allowed in nonculmination phenomena

The role of viewpoint aspect

- Interpretation to focus on now:
 Partial success
- BUT they are **not IMPERFECTIVE** cases.
- In languages where inflection distinguishes between Imperfective and Perfective (e.g., Spanish) we can see the difference.

The role of viewpoint aspect

- (9) Pedro pintaba la valla.

 Pedro paint-IMPF.3ps the fence

 'Pedro was.impf painting the fence'
- → no culmination reading.
- (10) Pedro pintó la valla.Pedro paint-PFve.3ps the fence'Pedro painted the fence'→ culmination reading

Some say it is in the stem

Because it is partial success without (classical)
imperfectivity involved, authors conclude that the
source of the reading is in the computation of the
eventuality type (Bar-el et al 2005; Tatevosov 2008).

Some say it is in the stem

• Tatevosov (2008) also argues that the fact that nonculmination is found in other forms, such as the future, argues against any possible role played by the viewpoint aspect semantics. His examples are:

Some say it is in the stem

Balkar

(11) Kerim eki sabat esik-ni ac-ar-di.

Kerim two hour door-ACC open-FUT.3ps

'Kerim will open the door for two hours'

My take

- True that classical imperfectivity is not at stake, as we have undisputable perfectives
- Admit that future examples fall within the same phenomenon.

BUT

 This does not mean that viewpoint semantics does not play a role.

My take

- Viewpoint forms are not monolithic and can be more complex (have more components) than previously thought.
- Actually, we know that the semantics and the correspondences between form and meaning with other viewpoints is not that simple.
- See the case of the imperfect, to wit the treacherous terrain:

Meanings and forms of viewpoint aspect

(11) Juan cantaba. Juan sing-impfv.3ps



- Meanings/readings in Spanish:
 - Habitual 'Juan used to sing'
 - Progressive 'Juan was singing'
 - · Ability 'Juan knew how to sing'
- Arche 2006, 2014: shared core: ordering predicate meaning 'within' plus other different heads adding other information.

Cross-linguistic variation

- Comrie 1976; Dahl 1985; Bybee et al 1994; Koontz-Garboden 2003, a.o.
- English: does not distinguish impfve/pfve inflectionally; rather it seems to distinguish ongoing/rest.
- (12) I was reading the book

Progressive

(13) I read a book.

Perfective

(14) I biked to school when I was a child. Habitual

(15) I read French even though I was never taught. Ability

- Hindi: distinguish imperfective/perfective dichotomy, but the Imperfect form cannot be interpreted as progressive.
- **Georgian** has the habitual but not the progressive explicitly marked.
- Furthermore, different ways of marking the contrasts: inflection (synthetic), auxiliaries analytical, tone (Krongo), etc.

- What if the perfective is more complex than what we thought?
- Can involve other elements? –Be complex.
- Altshuler 2014; Arche 2014.

Non culminating accomplishments

- Heterogeneous events
 - Borer (2005): have Quantity projected
- The situation is not understood as culminated.
- Tackle the heart of the relation between:
 - Telicity
 - **Heterogenous** events
 - not event terminus/completion/telos
 - Perfective viewpoint aspect
 - Perfective: interval bounded

Typical cases

Piñón 2008

- 1. Defeasible causatives (teach; treat)
- (16) Le enseñé latín, pero no aprendió nada. her taught Latin but not learnt anything 'I taught her Latin but she did not learn anything'
- 2. Verbs of creation (build, draw, write, compose)
- (17) Pedro compuso el poema, pero no terminó. Pedro composed the poem but not finished 'Pedro composed the poem but did not finish'

Typical cases

Piñón 2008

- 3. Verbs of non-creation (colour, read, fill, empty)
- (18) Pedro coloreó el castillo, pero no terminó.

 Pedro coloured.pfve the castle but not finished

 'Pedro coloured the castle but did not finish'
- (19) Pedro vació la piscina, pero no terminó.

 Pedro emptied.pfve the pool but not finished

 'Pedro emptied the pool but did not finish'

Typical cases

Piñón 2008

- 4. Performance-creation (recite, play, sing)
- (18) Pedro tocó la sonata, pero no terminó. Pedro played.pfve the sonata but not finished 'Pedro played the sonata but did not finish'

Typical cases

- Different degrees of acceptability
- Creation >> performance >> non creation
 - --- +++ +++
- Ongoing study of acceptability from native speakers of Spanish and French (Arche & Martin, in preparation).
- First phase: reaction time study with adults; native university undergraduates.
- Different verbs; with/without the adverbial; perfective/perfective progressive.

Leading case

- For the sake of the discussion, I will focus on cases such as (19):
- (19) Pedro **coloreó el castillo**, pero **no terminó**.

 Pedro colour-pfve.3ps the castle, but not finished 'Pedro coloured the castle but he did not finish to'

Points for exploration

- 1. Quality of the eventuality: true accomplishments?
- 2. Semantics of the perfective
- 3. Syntax-semantics of the temporal modifiers that seem to foster nonculmination in these cases

"For x time"

4. The **compatibility** of the overt clause declaring the lack of culmination explicitly "**not finish to**" (vs. not completely).

I will explore

- A sort of correlation among these elements
- Which may point to the availability of
 PARTITIVE semantics in the perfective in
 Spanish.
- Which includes an additional syntactic head, which is partitive, progressive.

Leading case

- (19) Pedro coloreó el castillo, pero no terminó.

 Pedro colour-pfve.3ps the castle, but not finished

 'Pedro coloured the castle but he did not finish to'
- OK for many speakers but
 - some want to add "for x time modifier"
- Still an accomplishment?
- (20) Pedro coloreó el castillo durante un rato, Pedro colour-pfve.3ps the castle for a while, pero no terminó. but not finished

1. Quality of the eventuality

True accomplishment? yes

1.1. **Culmination** is **possible**

- (21) Pedro coloreó el castillo durante un rato y lo terminó.

 P. coloured.pfve the castle for a while and it finished 'Pedro coloured the castle for a while and he finished it'
- (22) Pedro nadó durante un rato (#y terminó).

 Pedro swim-pfve.3ps for a while and finished.

 'Pedro swan for a while and finished'

The sentence

Pedro coloreó el castillo durante un rato. Pedro colored.pfve the castle for a while.

is *vague* with respect to culmination. It is compatible with both scenarios: one where there is no culmination and another one where there is (Arche 2014a).

 in a similar way in which we speak about vagueness in temporal ordering in the so-called Independent temporal construal observed in relative clauses (Stowell 1993; see Arche 2001 for Spanish).

Quality of the eventuality

- 1.2. Ok after finish
- (23) $\sqrt{\text{Pedro no } \mathbf{termin\acute{o}} \mathbf{de}}$ colorear el castillo. Pedro did not finish colouring the castle
- (24) *Pedro no terminó de pasear. *ACTIVITIES

 Pedro did not finish strolling
- (not) finish + accomplishments: ok only (Pustejovsky 1988)
- Elided VP must be an accomplishment, just as the one it is a copy of, ergo, still an accomplishment despite the for x time.

2. The meaning of the perfective

- In all these cases, the perfective can be paraphrased with what can be called "perfective progressive":
- (25) Pedro **coloreó el castillo**, pero **no terminó**. Pedro colour-pfve.3ps the castle, but not finished 'Pedro coloured the castle but he did not finish to'
- (26) Pedro **estuvo coloreando** el castillo, pero no terminó.

 Pedro was.**pfve** coloring the castle, but not finished.

N.B. Note that this form **IS NOT** equivalent in any sense to an imperfective progressive (the typical form known as progressive in short).

3. The semantics of the temporal modifier

- (27) Pedro coloreó el castillo, pero no terminó.

 Pedro coloured the castle, but not finished (to)
- OK for some speakers, but many react by adding a "for-time" modifier.
- (28) Pedro coloreó el castillo durante un rato, pero no terminó.

 P. coloured.pfve the castle for a while, but not finished 'Pedro coloured the castle for a while but did not finish'

The meaning of the temporal modifier

- Q: Why does this adverbial make the sentence better?
- Q: What does it mean?
- Ans: For a while gives us the size of an interval
- Ans: Which interval? The TT or Assertion Time (Klein 1994)
- (29) Pedro coloreó el castillo **durante tres horas**... Pedro coloured.pfve the castle for three hours ...
- (29) is **true** even if Pedro coloured the castle **for five hours**. (Arche 2014)

The meaning of the temporal modifier

- The Assertion Time → The interval we want to assert (the TT, AstT), rather than the interval of the whole event per se.
- For three hours, for a while give us only **part** of the interval the event may extend over.

The meaning of the temporal modifier

- For-time adverbials sharply contrast with in-time adverbials:
- (30) Pedro coloreó el castillo **en tres horas.**Pedro coloured.pfve the castle in three hours
- cannot be true if it took Pedro five hours to colour the castle.
- cannot be continued by "not finish to"
- (31) *Pedro coloreó el castillo **en tres horas,**Pedro coloured.pfve the castle in three hours,
 pero no terminó
 but not finished

The meaning of the temporal modifier

En tres horas

in three hours → interval of the whole actual event

Durante tres horas

for three hours → interval of the assertion

 Demirdache & Uribe-Etxebarria 2004: temporal adverbials are modifiers of the Assertion Time or the Event Time. AspP

Asp'

AstT

AstT for-PP Aspº

The syntax of interval size modifiers durante-time en-time for-time in-time AspP

AstT

Asp'

Aspº

Semantics of interval size modifiers

- Both *for*-time & *in*-time give the **size** of an interval
 - Hence both are compatible only with perfective (in Spanish)
- ❖ For-time: measures the Assertion Time, hence the interval can give us only PART of the Event Time.
- ❖ In-time: measures the Event Time (→ bounds the whole event- and that is why it is not okay with activities or states.)

4) Compatibility with "not finish to" vs. "not completely"

- Both used in the literature as expressions marking incompatibility with culmination
- However, as noticed by Demirdache & Martin 2015, it is not the case that both are equally compatible with any case of nonculmination.
 - This seems to be the case in the Spanish cases contemplated here:

(32) Pedro coloreó el castillo durante tres horas pero no Pedro coloured.pfve the castle for three hours but not terminó.

finished

'Pedro coloured the castle for three hours but did not finish'

(33) *Pedro coloreó el castillo durante tres horas pero no Pedro coloured.pfve the castle for three hours but not del todo.

completely

'Pedro coloured the castle for three hours but not completely'

"not finish to" vs. "not completely" & pfve progr

- (34) Pedro estuvo coloreando el castillo durante tres Pedro was.pfve colouring the castle for three horas, pero no terminó. hours but not finished 'Pedro was colouring the castle for three hours but did not finish'
- (35) * Pedro estuvo coloreando el castillo durante tres horas, Pedro was.pfve colouring the castle for three hours pero no del todo but not completely 'Pedro was colouring the castle for three hours, but not completely'

The correlations noted here

- ▶ **For*-time
- ▶ *Not completely
- ▶ *Pfve progressive \blacktriangleright √Pfve progressive
 - ▶ \sqrt{For} -time
 - ▶ $\sqrt{\text{not finished to}}$

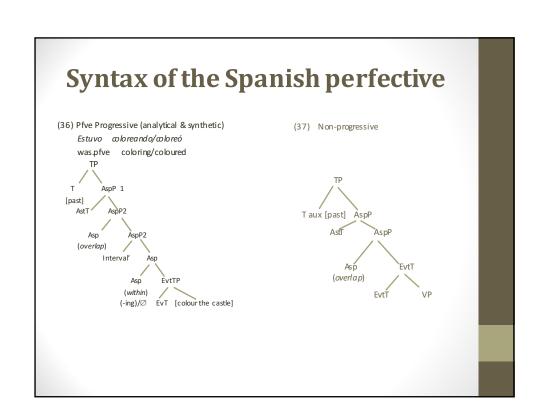
Correlations

- 1. For-time: partitive
- 2. Perfective is progressive: partitive
- 3. "Not finished to": compatible with those cases that allow for perfective progressive and *for*-time adverbials

Some working idea to add to the puzzle

- Spanish perfective can be a partitive perfective
 - Viewpoint aspect properties are responsible for making the partial completion available (Arche 2014a; Demirdache & Martin 2015)

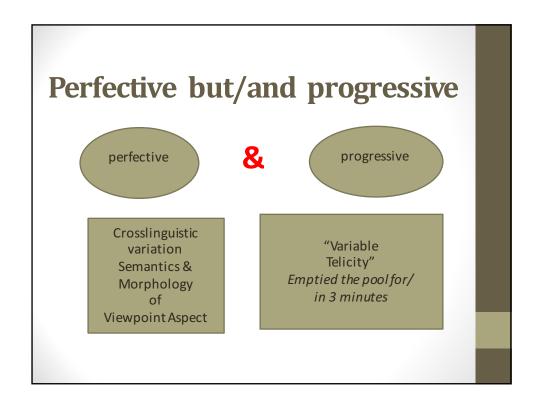
- The cases where the above-mentioned correlations hold are argued to be accounted for by the properties of the syntax-semantics of viewpoint aspect, that is:
 - where the perfective can be paraphrased by a perfective progressive.
 - In these cases, the perfective is homophonous with the non-progressive one but it has different syntax-semantics, as in Arche 2014a (next slide)



Summary & Conclusions

- I have made a proposal whereby nonculmination is due to the properties of functional material.
- In particular, I have proposed that lack of culmination is due to a complex viewpoint head, consisting of a perfective head and a progressive one.
- Progressive is not 100% synonymous with imperfect.





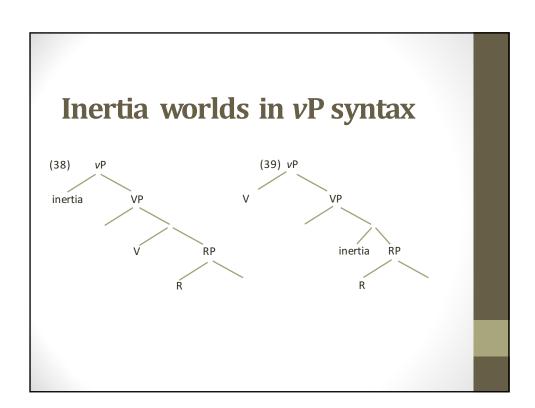
Faring with previous proposals

Previous proposals

- Koening & Muansuwan 2001: Thai semiperfectives involve an *imperfective operator* in the *lexical* meaning of accomplishments.
 - "Thai perfectives describe subparts of inherently bounded eventualities" (p.2)
 - "Thai stems are fundamentally biased towards imperfectivity" (p.15)
 - "Thai bare sentences are similar to sentences marked with the progressive in English"
 - Completion is just a strong implicature.

Previous proposals

- Tatevosov 2008: "non culmination must be part of the computation of the eventuality type, not grammatical aspect."
- The same happens in the future.
- Inertia worlds as part of the first phase syntax (Ramchand 2008).



Advantages and loose ends

- The proposal pursued in this talk does not need to stipulate the existence of modal material in the lexical stems of accomplishments.
- The proposal also accounts for the availability of non-culmination with other tense/aspect forms such as the future:

(40) Pedro coloreará el castillo durante dos horas,
Pedro colour-fut.3ps the castle for two hours
(pero no lo terminará).
but not it finish-FUT.3ps
'Pedro will colour the castle for two hours but will
not finish it'

means...

(41) Pedro estará coloreando el castillo durante dos horas.

Pedro be-fut.3ps colouring the castle for two hours

'Pedro will be colouring the castle for two hours'

Advantages and loose ends

 That is, it is again the progressive head that can be blamed for the interpretation.

Advantages and lose ends

- The syntactic division proposed by Tatevosov aimed at accounting for the two types of nonculmination observed in the literature: partial success and failed attempt.
- It could seem that the inclusion of a progressive head can straightforwardly account for the partial success reading, since progressive heads return "parts".
- However, failed attempt readings exist (to some extent in Spanish), precisely only with the explicit version of the perfective progressive:

(42) Estuve enhebrando la aguja durante dos horas. was.pfve.1ps threading the needle for two hours 'I was threading the needle for two hours' 'I was trying to thread the needle for two hours'

(iterative reading discarded here; available with the synthetic perfective)

- Failed attempt reading is unavailable with the impf.:
- (43) Estaba enhebrando la aguja. was.pfve.1ps threading the needle

- Conceptualization of the event itself.
- Cf. *I am building a house* able to include the preparatory stage of doing the blueprints.

Thank you!

References

- Altshuler, D. 2014. A typology of partitive aspectual operators. Natural Language and Linguistic Theory 32: 735-775.
- Arche, M.J. 2001. A note on distributivity and the independent temporal construal. Working Papers in Linguistics of the Institute Ortega y Gasset. Madrid.
- Arche, M.J. 2014a. The construction of viewpoint aspect: the imperfective revisited. Natural Language and Linguistic Theory 32: 791-831.
- Arche, M.J. 2014b. About the primitives of aspect across languages.
 Natural Language and Linguistic Theory 32: 711-733.
- Arche, M.J. 2014c. Viewpoint aspect and agent control in Spanish non culminating accomplishments. Talk delivered at *Chronos XI*, Pisa June 2014.
- Arche, M.J. & F. Martin. In prep. Viewpoint aspect morphosyntax and acceptability of nonculminatig accoumplishments in French and Spanish.
- Bar-el, Leora, Henry Davis, and Lisa Matthewson. 2005. On non-culminating accomplishments. Proceedings of the Thirty-Fifth Annual Meeting of the North Eastern Linguistics Society, eds. Leah Bateman and Cherlon Ussery, 87–103. Amherst, MA: GLSA.

- Demirdache, H. & F. Martin. 2015. Agent control over non-culminating events. In Barrajón et al (eds.), Verbal Classes and Aspect, Amsterdam: John Benjamins, 185-217.
- Klein, Wolfgang. 1994. Time in language. London: Routledge.
- Koenig, J. P., & Davis, A. R. 2001. Sublexical modality and the structure of lexical semantic representations. *Linguistics and Philosophy*, 24(1): 71-124.
- Martin, F., & Schäfer, F. 2015. Sublexical modality in defeasible causative verbs. Modality across Syntactic Categories. Oxford University Press, Oxford.
- Piñón, Christofer. 2008. Verbs of creation. In Event structures in linguistic form and interpretation, Johannes Dölling, Tanja Heyde-Zybatow, and Martin Schäfer (eds.), 493-522. Berlin: Walter de Gruyter.
- Ramchand, G. 2008. Verb meaning and the lexicon. Cambridge: CUP.
- Stowell, T. (1993). Syntax of tense. Ms., University of California, Los Angeles.
- Tatevosov, Sergei. 2008. Subevental structure and non-culmination. In Empirical Issues in Syntax and Semantics 7, eds. Olivier Bonami and Patricia Cabredo Hofherr, 393–422. Paris: Colloque de Syntax et Sémantique à Paris. Accessed at http://www.cssp.cnrs.fr/eiss7/eiss7.pdf.