The role of the Imperfect in Romance Counterfactuals

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Abstract

The Imperfect in Romance is used in an array of constructions: progressives, habituals, generics and counterfactual conditionals. The first three all share hallmarks of the Romance Imperfect: they describe something ongoing, in the past, and which requires contextual framing. Counterfactual uses, however, do not, and thus present an important challenge for a unified semantics of the Imperfect. In this paper, we try to explain the presence of the Imperfect in counterfactuals. We take counterfactuals to involve both a Future and an Imperfect (Iatridou 2000), but with the modal contribution of the latter be neutralized, such that counterfactuals amount to future conditionals. The Imperfect contribute presuppositions of framing and anteriority, which lead to counterfactuality.

1 The Puzzle

The Imperfect (‘imparfait’) of Romance is used in an array of constructions: progressive (1a), habitual (1b), generic (1c):

(1) a. Paul traversait la rue, quand il s’est fait écraser.  
   French Paul cross-impf the street, when he got crushed.  
   ‘Paul was crossing the street, when he got run over’

b. Quand elle était jeune, Marie jouait du piano.  
   When she was young, Mary play-impf the piano

c. À l’époque, les femmes portaient des corsets.  
   In those days, women wore-impf corsets

Furthermore, it is found systematically in counterfactual conditionals. Counterfactuals like (2), require Imperfect in their antecedent, and conditionnel mood in their consequent, which morphologically looks like the combination of the future and the Imperfect (Iatridou 2000):

(2) Si Paul venait, Marie serait heureuse.  
   If Paul come-impf, Marie be-COND happy

Finally, it is observed that sentences with the Imperfect are deviant without a salient temporal expression. Thus, (4a) is judged by speakers to be significantly worse than the remaining sentences in (4) which involve, respectively, (b) a temporal adverbial, (c) a when-clause, (d) a quantificational adverb, and (e) a contextually salient time interval.

The progressive, generic, and habitual uses all share the three hallmarks of the Romance Imperfect: they describe something ongoing, in the past, and which requires contextual framing (Delfitto & Bertinetto 1995, Bonomi 1997). The counterfactual construction, however, has none of these requirements, thus complicating any attempt to unify these uses of the same morphological category. Our goal in this paper is to attempt a unification of sorts to explicate why the Imperfect is such a comfortable associate of counterfactual interpretation while being faithful to its lack of the peculiar use conditions of the other uses.

The key idea in our proposal is that counterfactuals fundamentally involve past metaphysical modality (Condoravdi 2001, Ippolito 2003). We argue that the anteriority and the modality arise from distinct sources. The anteriority we will propose is a consequence of the modal IMPF (morphologically realized as the Imperfect), which we take to presuppose the anteriority and framing hallmarks of the Imperfect (Giorgi & Pianesi 2004). However, following Iatridou (2000), we will argue that counterfactuals additionally involve a future modal (FUT), which is responsible for the metaphysical modality that separates counterfactuals from the other uses of the Imperfect. The technical ingredient allowing this chimerical transformation will be Hacquard’s (2006) event-relative modality, under which two stacked modals render the top one vacuous. Thus, IMPF+FUT will be interpreted as FUT, modulo the presuppositions of IMPF, which trigger the counterfactual interpretation. (Iatridou 2000, Condoravdi 2001, Ippolito 2003, Arregui 2005).

After reviewing the Hallmarks of the Imperfect in Section 2, we discuss the semantics of the IMPF modal in Section 3. Section 4 demonstrates how this semantics coupled with a future modal and Hacquard’s event relativity leads to a counterfactual interpretation. Section 5 concludes.

2 Hallmarks of the Imperfect in Romance

As discussed by Delfitto & Bertinetto (1995) and Bonomi (1997) a.o., the Romance Imperfect has three characteristics (modulo counterfactual uses). First, it has a requirement that the event in question is anterior to the utterance time, as indicated in (1a–c). Second, it exhibits ongoingness or homogeneity, in that the event/habit described must go on in time. Thus, Paul’s piano playing is taken to last throughout an interval surrounding Marie’s arrival in (3a), and similarly his piano playing habit throughout an interval surrounding ‘those days’ in (3c).

(3) a. Quand Marie est arrivée, Paul jouait du piano.  
   When Marie arrived, Paul played-impf of the piano
   ‘When Marie came in, Paul was playing the piano’

b. À l’époque, Paul jouait du piano.  
   In those days, Paul played-impf of the piano
   ‘In those days, Paul played the piano (habitually)’

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We first consider the modal component of IMPF. Portner’s (1998) analysis of the progressive is event-relative: it considers circumstantial worlds containing continuations of the event in question which respect the event property denoted by the verb phrase. Given the necessity that progressive forecasting excludes interruptions, Portner argues that the circumstantial worlds are ordered by a requirement for non-interruption:

(6) $[[\text{IMPF}(e,P)]]^w$ is true at $w$ iff for all worlds $w'$ in $\text{Best}(\text{Circ}, NI, e, P)$ there is an event $e'$ which includes $e$ as a nonfinal subpart s.t. $P(w')(e')=1$.

Thus, the sentence in (7) gives rise to the truth conditions explicated beneath.

(7) (At 5pm), Paul jouait du piano.

There is an event $e$ s.t. in all best circumstantial worlds where Paul isn’t interrupted, there is a superevent $e'$ of $e$ which is an event of Paul playing the piano.

Following Ferreira (2005), we extend Portner (1998) to habitual/generic cases by invoking plural events:

(8) (À l’époque), Paul jouait du piano.

(In those days), Paul played the piano.

There’s an event $e$ s.t. in all best circumstantial worlds where Paul isn’t interrupted, there is a superevent $e'$ of $e$ which is a plurality of events of Paul playing the piano.

Note that in both Portner’s original account and Ferreira’s extension, we have an event that occurs in the evaluation world, which is part of a larger, completed event or series of events in the modal worlds. This event, which we will call the extensional event $(e_0)$, is in fact the event on which the framing and anteriority requirements of the Imperfect are imposed. Thus, in (5) and (6), the event $e$’s runtime must both precede the utterance time and be framed by the temporal frame adverb in question. This event is thus a (topical) event that needs to be made salient by the context (and can be viewed as a reformulation of an Austrian topic). We turn to these anteriority and framing requirements in the next section.

3.2 Anteriority and Framing Requirements as Presuppositions

The denotation in (6), being that of progressive, does not capture the anteriority or framing requirements of Imperfect. Following Giorgi & Pianesi (2004), we take those to be presuppositions concerning the extensional event:

(9) $[[\text{IMPF}]]^w$ is defined iff:
   a) $t(e) \subseteq \text{TOP-TIME}(c)$
   b) $\text{TOP-TIME}(c) < t_0$
   c) $P(e^c)\cdot P(w|e^c)=1$.

Note that we adopt Portner’s particular account chiefly because its event-based semantics allows us to integrate it to our proposal straightforwardly. Our proposal, however, should be compatible with accounts of the progressive/habitual, provided they be translated in event terms.

3.1 Modal Quantification

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In practice, (8) presupposes that the extensional event’s run time is within a topical interval provided by a context Top-Time(c), which itself must be anterior to the local evaluation time. That the anteriority restriction holds for this interval as well can be shown by considering intervals that overlap the local evaluation time (here, the utterance time):

In (10), Ce matin, *Aujourd’hui*, Paul jouait du piano.
This morning, *today* Paul was playing the piano.

Given (9), we obtain the following compositional skeleton and denotation for (8):

\[
\begin{array}{cc}
\lambda e \in e_0 \exists e' \in e \quad & \exists e'' \in e' \quad & \forall \text{P}_{\text{play piano}}(e) \\
& \forall \text{P}_{\text{play piano}}(e') & \forall \text{P}_{\text{play piano}}(e'')
\end{array}
\]

(11) \[ \forall w \in \text{E}((\text{Circ}, \text{NI}, \text{e'} \in \text{e''} \in \text{e} \quad \forall \text{P}_{\text{play piano}}(e')) \quad \exists e'' \in e' \quad \forall \text{P}_{\text{play piano}}(e'') \]

4 The Imperfect and Counterfactuality

Having considered the treatment of canonical uses of the Imperfect, we now move to a discussion of counterfactual uses. As we mentioned at the outset, empirically, counterfactuals show none of the requirements that drove us to the considerations in the previous section—they do not seem to describe past events, they may be said out of the blue, and there is no notion of ongoingness communicated. In (14), we are talking about possible future or current events of arriving and writing. Furthermore, these events may be understood as completed: a completed arrival would lead to a meeting of Marie; and Marie’s happiness seems most likely contingent of a complete letter, as opposed to a mere event of writing in progress:

(14) a. Si Paul arrivait demain, il rencontrerait Marie.
If Paul arrived yesterday, he would meet Marie.

b. Si Paul écrivait une lettre à Marie, elle serait contente.
If Paul wrote a letter to Marie, she would be happy.

Of course, one explanation for this is that counterfactuals do not involve IMPF, and that the morphology is deceiving us. However, if we assume the morphology is a manifestation of IMPF, it is unclear why counterfactuals should behave so differently from other uses of the Imperfect.

As mentioned at the outset, we will argue that the culprit in all of these differences is the future modal (FUT), whose morphological exponent is the future morphology in the consequent condition (Iatrondon 2000). Recall that when introducing IMPF, we made it relative to an event argument, whose position is saturated by the extensional event. We will pursue an account of FUT that treats it also as an event relative, along the lines of the event relative modality in Haugard (2006). It too will thus require an event argument, and we will likewise assume that this position is filled by \( e_{\text{rel}} \). The skeleton of this account is in (15):

(15) \[ \lambda e \in e_0 \exists q_{\text{at}} \exists q_{\text{on}} \exists q_{\text{on}} \quad \forall \text{P}_{\text{meet}}(q_{\text{on}}) \quad \forall \text{P}_{\text{meet}}(q_{\text{on}}) \]

(15) is thus a future conditional, apart from the contribution of IMPF. In the event relative framework IMPF’s modal contribution will disappear under vacuous quantification, while its presuppositions on \( e_{\text{rel}} \) will still remain. Thus, (15) will reduce to a future conditional with respect to a past, framed event, which we will show yields a counterfactual interpretation.

4.1 Event-relative modality

Under the event-relative framework, modals uniformly select an event argument which serves to characterize the modal base quantified over. In Hintikkan systems, modal bases are determined with respect to individual, temporal, and intensional parameters; in the present

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system it is argued that all of this information is provided by a particular event, which may be the speech event or an attitudinal event. The system imposes the constraint that the event arguments of modals are constrained to be variables bound by the closest event binder (in the spirit of Farkas 1994, Percus 2000). This thus requires that two modals stacked without any intervening material will require their event variables to be co-bound, resulting in vacuous quantification of the higher modal.

To see this, consider (16), which schematizes the situation in question. Both modals uniformly quantify over worlds accessible from the event in question. But given that the lower modal is evaluated with respect to its event argument, not the worlds quantified over by the higher modal, the higher modal binds vacuously into its scope:

(16) \[ \lambda e \forall w \in Acc(e) [\forall w' \in Acc(e) [p[w'-1]]], \text{or } \forall w' \in Acc(e) [p[w'-1]] \]

Hacquard (2006) argues this happens with epistemics under doxastic attitudes, yielding a quantificationally-variable doxastic attitude.

As (16) is another instance of this pattern, the modal contribution of IMPF will also be nullified. What differentiates (15) from (16), however, is that, because of its presuppositions, IMPF imposes restrictions on the event argument of the lower modal. We will now investigate the consequences of these restrictions.

4.2 Recipe for Counterfactuality

First, we should specify our assumptions about FUT and the structure in (13). Following Condoravdi (2001) and Copley (2003), we will assume FUT is a metaphysical modal, which combines with two properties of times. In order to make metaphysical modality event-relative, we construct metaphysical alternatives with respect to an event argument of the modal (we assume future shifting of the temporal now following Abusch 1998):

(18) \[[\text{FUT}]^{e'} = \lambda e \lambda p w \lambda q w' \in \text{Best}(\text{Meta}(e)) \] \( [\text{if } p[v, e] = (w)] [q[l(w, e)]]) [q[w-1]] \]

As Iatridou (2000) demonstrated, the conditionnel mood displayed in Romance counterfactuals is the morphological spellout of IMPF above FUT. Given (16), we assume that the FUT modal takes two properties of times. These structures we assume have aspectual elements, whose presence is diagnosed by the availability of ongoing interpretations with counterfactuals:

(19) Si Jean courrait régulièrement, il serait en pleine forme.
If Jean run-impf regularly, he be-COND in good form
‘If Jean ran regularly, he would be healthy.’

Both antecedent & consequent have obligatory imperfective morphology in counterfactuals, a morphological rule we assume blocks the appearance of the aspect of the embedded clauses:

(20) a. Si Jean arrivait demain, il rencontrera Jane.
If Jean arrive-impf tomorrow, he met-COND Jane
b. *Si Jean arrivera demain, il rencontrera Jane.
If Jean arrive-fut tomorrow, he met-COND Jane
c. *Si Jean arrivait demain, il rencontrerait Jane.
If Jean arrive-impf tomorrow, he met-fut Jane

Thus, despite appearances, we assume that the antecedent is denotationally equivalent to consequent, and that the mandatory appearance of the Imperfect in the antecedent is agreement. While we leave the precise specification of the morphological realization principles to future research, we note that in Quebecois French the agreement is complete – both antecedent and consequent show conditionmod morpholog:

(21) Si Jean serait là, Marie serait heureuse.
If Jean be-COND there, Marie be-COND happy
‘If Jean were there, Marie would be happy.’ (Michael Gagnon, p.c.)

These assumptions serve to provide the structure in (22), which is a more detailed version of (15):

(22) \[ \lambda e \lambda p \lambda q \lambda w \lambda w' \in \text{Best}(\text{Meta}(e)) \] \( [\text{if } p[v, e] = (w)] [q[l(w, e)]]) [q[w-1]] \]

Given the denotations for FUT and IMPF as well as the principles governing structures such as (14), (22) has the following denotation:

1 Note that as it stands IMPF and FUT will not combine because of a type clash. At present, we assume vacuous type-raising of FUT to yield a property of events (as done in the tense literature, e.g., Katz 2001). While this is clearly undesirable, it is unclear to us how to solve this general problem regarding future scoping below modality. Significantly, Copley (2003) manages this by making aspect take temporal property arguments, but this generally produces problems with accomplishments (Landman 1992).
We consider each in turn. When one considers the futures of the itinerary fixing in which the antecedent is true, the other time. In a sentence like ‘If Jean arrived tomorrow, he met Jane.’, that past had lead to Jean arriving tomorrow, it would also have led to him meeting Jane. Hence a sentence like (23) makes the intuitively appealing proposal that counterfactuals are de re claims about a particular salient ‘past’, such that if that past had lead to Jean arriving tomorrow, it would also have led to him meeting Jane. We would like to argue that counterfactuals make claims not just about a particular past time, if that past had lead to Jean arriving tomorrow, it would also have led to him meeting Jane. Hence a sentence like (23) makes a cla

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The question then is what Ext(p) is. Recall that for the canonical Imperfect forms, it was the extensional event part of the P-event in circumstantial worlds. What about counterfactuals? Let’s pause for a moment and consider what counterfactual conditionals express. Arregui (2004) makes the intuitively appealing proposal that counterfactuals are de re claims about the past. Hence a sentence like (23) makes a claim about a particular salient ‘past’, such that if that past had lead to Jean arriving tomorrow, it would also have led to him meeting Jane. We would like to argue that counterfactuals make claims not just about a particular past time, if that past had lead to Jean arriving tomorrow, it would also have led to him meeting Jane. Hence a sentence like (23) makes a cla

In counterfactuals, we take Ext(p) to be that very forking event. For (22), that event is Jean’s itinerary-fixing event, i.e., the event that led to Jean arriving tomorrow or at some other time. In a sentence like ‘If McCain were President, GM would be bankrupt’, that forking event is an election event, etc. Assuming this is the case, (22a) roughly asserts that when one considers the futures of the itinerary fixing in which the antecedent is true, the consequent follows.

This is as desired. The remaining task is to demonstrate how one arrives at the forking event given the presuppositions introduced by IMPF. We consider each in turn.

4.3 The Anteriority Presupposition

The anteriority presupposition requires that felicitous use of a counterfactual conditional be made with respect to an event that occurred in a topical interval that is prior to the evaluation time. As has been noted by Condoravdi (2001), Ippolito (2003), and Arregui (2007) the counterfactual component of counterfactual conditionals results from evaluating metaphysical alternatives in the past, as it is the settlingness of the past which yields the contrary-to-fact implicature. In these systems, the anteriority of alternatives is a result of tense. In the event relative system, it is due to an event constrained to be in the past which determines metaphysical alternatives.

While this allows us to assimilate the contrary-to-fact implicature to prior work, note that the anteriority presupposition does not otherwise determine the extensional event. This is true for the canonical Imperfect sentences as well, where, in the spirit of Landman, we saw that the property argument is what constrains the nature of Ext(p) (it must be merologically compatible with an event which the property denoted by the VP is true of). In the case of counterfactuals, we assume that it is the framing presupposition which serves to identify the extensional event’s characteristics.

4.4 The Framing Presupposition

The framing presupposition enforces the run-time of the extensional event within contextual topic time. However, conditionals are not temporal adverbs, and hence by assumption do not shift topic time. Nonetheless, we concluded from (10) that the lexical content of DPs may pragmatically introduce topical intervals. Alongside this, we propose that antecedents pragmatically introduce the interval under which the forking event was a historical issue, in the sense of Ippolito (2008).

(25) Historical Issue (Ippolito 2008)

For any proposition p, world w and time t, p is a historical issue in w at t just in case:

(i) w is historically as close to w_t as allowed by the fact that the set of worlds accessible from w at t (call this set A) must include both p-worlds and ¬p-worlds;
(ii) all the worlds w’ in A maximally similar to w, are worlds where ps(p) are true (ps(p) = presuppositions in p).

As Ippolito notes, “if p is foreclosed [settled] in w_t, t must be a time immediately before the time when p got foreclosed in w.” Thus, the antecedent pragmatically sets TOP-TIME(c) to an interval immediately bounding the run time of the event which settled the antecedent property. The settling event then serves as a fork (in the sense of Bennett 2003), producing divergence into p- and ¬p-worlds, and hence the metaphysical alternatives at the time of the event include both types of worlds.

Thus, in canonical cases the framing presupposition serves to temporally locate an extensional sub-event within some independent temporal interval provided by context (or context shifting of temporal adverbs). In contrast, in counterfactual cases, the framing
presupposition individuates a forking event via the temporal interval evoked by the antecedent clause.

5 Conclusion

The goal of this paper was to account for the presence of the Imperfect in Romance counterfactuals, despite counterfactuals lacking the traditional hallmarks of the Imperfect. We argued counterfactuals involve both an IMPF and a FUT, as suggested by morphology. We claimed that the differences of the counterfactual were due to quantification by a different modal, the metaphysical modal FUT, while the counterfactual component followed from the anteriority and framing presuppositions IMPF imposes on the event determining the alternatives for FUT. By rendering both IMPF and FUT event relative, we demonstrated that the modal force of IMPF is vacuous in counterfactual contexts, thereby, in effect, removing it from the picture.

Several thorny issues remain. Within Romance, we have not considered what Ippolito (2004) calls Imperfect Conditionals, the necessarily contrary to fact conditions which do not have future morphology. More generally, we have not ventured to comment on either the cross-linguistic split between languages which use the past for the counterfactual and those which use the imperfect or the fact that (in contrast to our semantics for IMPF), generics tend to morphologically pattern with counterfactuals and not progressives (Iatridou 2000).

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References


