Narrative Infinitives, Narrative Gerunds, and the Features of the C-T System

1. Introduction

Philological studies on Romance languages often debate the nature of the historical infinitive, which, as shown in (1), is attested in the corpora of almost every member of this language group (e.g., Lombard 1936; also Beardsley 1923 for Old Spanish; Marcou 1889 for Ancient and Middle French; Nedelcu 2013 for Old Romanian; Schnerr 1966 for Brazilian Portuguese; Shewring 1948: 18 for Italian). This construction consists of a root clause that displays an infinitive verb instead of an indicative one, but it amounts to the same declarative assertive reading as a regular root declarative with indicative verbs.

(1) a. Così disse; e tutti a rabbividire. E il povero Geppetto so spoke; and all to cringe. INF and the poor Geppetto a corrergli dietro. Italian to run. INF. them after ‘So he spoke; and everybody cringed. And poor Geppetto ran after him.’ (Collodi. apud Shewring 1948/2016: 18)

b. O grupo achava graça nos dois e aplaudia-os com the group found fun in the two and applauded-them with gargalhadas. E o paratí a circular sempre de mão en mão. laughter and the cap to circulate. INF always from hand to hand ‘The group found that the two (actors) were fun and applauded them with laughter. And the cap (for money) was circulating from hand to hand.’ (Azevedo apud Schnerr 1966: 72)

c. Manetraronlos luego como vinien fellones, Old Spanish tied. them then as come. 3PL felons Darles grandes feridas con muy grandes bastones. give. INF. them great wounds with very great clubs ‘They tied up their hands as they came as felons and caused them injuries with big clubs.’ (Mil 889 apud Beardsley 1921/2013: 85)

d. On se met à causer, et Flaubert de blaguer we REFL. 3 put to talk and Flaubert to joke. INF un peu grosserement. a bit crudely ‘We were talking and Flaubert was joking a bit too crudely.’ (Goncourt, Journal 1, 303)

e. Preâmblă Machiedonia şi Ahaiaa şi a mearrgie în Rusalim wander. 3 Macedonia and Ahaia and INF go to Jerusalem ‘Macedonia and Ahaia are off wandering and going to Jerusalem’
For these types of infinitives, we adopt the label ‘narrative infinitive’ (henceforth, NI), following Nikolaeva (2014), in order to differentiate them from other types of root infinitives, which either cannot have Nominative subjects or do not express assertions. For example, infinitives are possible in interrogatives (e.g., It. Che fare? ‘What to do?’) where they get an impersonal reading, but the infinitive constructions in (1), and in (2) with gerunds, are personal and display independent Nominative subjects. For analyses of different types of root infinitives we refer the reader to work by Kayne (1992), Rizzi (1994), Haegeman (1995), Grohmann (1999, 2000), Etxepare & Grohmann (2000), Grohmann & Etxepare (2003), Etxepare & Grohmann (2005), Nikolaeva (2014) and references therein.

Philologists agree that NIs are rare in texts, having a more significant presence in Middle French than in other languages, and, where they may have survived, they continue to be infrequent in the modern versions of these languages. For instance, according to Grevisse & Goosse (2008: 1111; §901), the NI in French is attested since Old French and was considered familiar in the 17th c, while today it sounds elegant and somewhat erudite. Of the French diaspora, Acadian French still preserves this construction, so consulting native speakers for grammatical judgments is possible.

The indicative declarative also has a concurrent equivalent gerund in some of the Romance languages, as shown in (2), amounting to the same assertive effect as the NI. It also has rare occurrences. We label this construction the ‘narrative gerund’ (henceforth, NG).

(2) a. Chegavam os moradores com as calças arregaçadas, pedindo semente de algodão para o roçado. E a chuva caindo sem cessar.

‘The residents were arriving with their pants rolled up, asking for cotton seeds for the sowing. And the rain was falling incessantly.’

(Lins do Rego apud Schnerr 1966:72)

b. Eber fiind de 31 de ani și rodi Peleg.

‘Eber was 31 years of age and begot Peleg.’ (PO {41},16)

From the perspective of formal grammar, NI and NG constructions are challenging since they entail independent temporal readings, as well as independent lexical subjects, in a domain where the verb is uninflected for tense. There is no doubt that these constructions are interpreted as finite clauses since they can be explicitly coordinated with indicative declaratives (see the underlined coordinating conjunctions), although they may also occur by themselves, as in (1c), or may be the first term of coordination, as in (2b). Furthermore, they are propositional since they denote assertions. Hence, the question we address concerns the underlying featureal make-up that allows a derivation with a non-finite verb form to converge as if it were finite.

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1 Note that, the NI in modern French, while belonging mostly to the literary language, is still recognized by speakers and is still used in journalism; for example, see http://www.languefrancaise.net/forum/viewtopic.php?pid=60473. See also Iglesias & Traill (1989) for Mexican Spanish. We thank an anonymous reviewer for pointing out these facts.
This paper adopts the following working hypothesis: given that NIs and NGs yield exclusive declarative (versus interrogative) readings (see also Nikolaeva 2014), it follows that any explanation of these derivations must be linked to their forced declarative clause typing. Since, semantically, these declarative clauses are assertions, we suggest that an Assertion Operator (Assert OP) is syntactically mapped to an otherwise non-finite clause, with the effect of recategorizing the clause as finite. This is in opposition to declarative indicatives, which we assume lack an Assert OP as the assertive interpretation arises here by default (i.e. from the principle of compositionality).

As the formal inquiry needs a variety of data for tests, we focus on Middle French (henceforth, MF), Acadian French (henceforth, AF) and Old Romanian (henceforth, OR) from the group of Romance languages allowing for non-finite forms in root clauses. The data cover both NIs and NGs.

AF is a conservative dialect mainly spoken in New Brunswick (Canada), which reflects the 16th century continental French, and gives us the opportunity to verify the NIs with native speakers. AF is also spoken by smaller groups in Nova Scotia, Newfoundland, Prince Edward Islands and areas of Eastern Quebec. Dialectal variation is attested from one region to another, but this paper focuses only on the New Brunswick variety. OR is the Romanian language attested in texts dating from the 16th to the end of the 18th century; these OR texts provide sufficient NGs (but not sufficient NIs) for a detailed inquiry.

The paper is organized as follows: Section 2 introduces the sources for our examples and explains how we elicit grammatical judgements. In section 3 we argue that root indicatives achieve the assertion reading in the absence of any clause typing operator. In section 4 we show that NIs and NGs project to a CP phasal structure, have independent subjects and temporal readings, and require obligatory verb movement out of vP. Section 5 suggests that an Assert OP is syntactically mapped to the Spec,CP/ForceP of configurations with NIs/NGs and argues that the feature distribution within the C-T system plays a key role in the variation and diachronic changes discussed in these constructions. The conclusions in section 6 highlight the theoretical significance of our findings.

2. Sources and methodology

The data we use in this paper come from three sources: (i) texts for MF and OR; (ii) naturalistic data and (iii) elicited grammatical judgements for AF. The MF texts range from *Cent nouvelles nouvelles*, a collection of narrated stories put together by Antoine de la Sale in the mid 15th century, to Rabelais (15th c. – 16th c.). This information is further supplemented with examples from the philological literature, as needed to garner clues for the syntactic structure. The OR texts consist of translations and original writings compiled in a corpus provided by the Romanian Institute of Linguistics in Bucharest. As there is no access to native speakers of MF and OR, we rely exclusively on the data available in texts for any testing.

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2 An Assertion Operator is proposed in Meinunger (2004), from where we borrow the label, but the motivation and implementation differ in our approach.

3 Terminologically, *Old Romanian* is used interchangeably with *Early Modern Romanian*, as the body of texts they refer to is the same. The former label occurs in philological studies and some formal literature, whereas the latter was introduced in diachronic generative studies by Alboiu & Hill (2012), Alboiu et al (2015).
AF, on the other hand, provides native speakers. Although NIs are disappearing from the New Brunswick variety, the young generation has passive but solid grammatical judgements on these constructions: they do not use NIs themselves, but have heard them used by their elders. For AF, we use naturalistic data from two corpora (i.e., Péronnet – full corpus, and Beaulieu/FANENB – samples of the corpus), both of which cover the AF spoken in New Brunswick between 1980-1995. We supplement these data with examples from sociolinguistic studies.

Elicited data are available only for AF, and the approach adopted was to choose a sentence containing an NI from the corpus, then add or subtract an item, as needed for our tests, while keeping the rest of the context intact. For example, if the purpose was to find the level of verb movement, we introduced a temporal adverb before or after the infinitive verb leaving everything else unchanged. This gave us syntactic minimal pairs, thus enabling us to identify the location of the verb. Fifteen native speakers volunteered their judgments for each word order sequence. Elicited data for tests are indicated through ‘authors’ test’ (henceforth, AT) added in brackets next to the respective example.

This study does not make use of statistics. Native speaker judgments of fifteen speakers is sufficient to indicate whether a certain construction is or is not possible in the language. There is undoubtedly considerable inter-language variation and it is clear that not all AF varieties behave in a uniform fashion. However, this is not significant for our purpose as any construction that is deemed grammatical even by a single native speaker needs to be syntactically accounted for, and that is what we strive to do here.

3. Assertion with root indicatives

The question we explore in this section is whether declarative indicative clauses could perhaps have a clause typing operator in Spec,CP, which would be responsible for the assertion reading (Meinunger 2004). We argue against such a hypothesis, at least for most Romance languages. Instead, we propose that the assertion reading comes as a default in root indicatives, due to the morphosyntactic properties of these clauses.

The first observation is that there is no visible evidence for a clause typing operator in declarative C in Romance, which led Rizzi (1997) to postulate that Romance declaratives are truncated insofar as they lack ForceP and end up at TopP. That is, assuming the cartographic mapping of the CP domain as in (3a), the structure of a declarative would be (3b). Our AF consultants comprised of eight women and seven men aged between 30-55. They are all nurses (so have equivalent education) working in similar health institutions. For the elicitation, we extracted a text containing an NI from the existing corpus. The consultant was first asked to read the test. Then they were shown the same text with the addition of an item (e.g., in (i)-(iii), the temporal adverb in bold) and were asked to answer the following question: Which version of the following sentence is acceptable to you:

(i) On avait une pelle pis aut’fois pelleyer devant le cheval
we had a shovel and at.the .time shovel.INF in.front the horse

(ii) On avait une pelle pis pelleyer aut’fois devant le cheval.
we had a shovel and shovel.INF at.the.time in.front the horse

(iii) On avait une pelle pis pelleyer devant le cheval aut’fois.
we had a shovel and shovel.INF in.front the horse at.the.time

‘We had a shovel and, at the time, we were shovelling in front of the horse.’

It should be noted that here we have in mind a syntactic operator in Spec,ForceP denoting illocutionary force, in the way an interrogative Spec,ForceP has an operator denoting interrogative force.
Second, modality is constantly realis under an assertion reading, and realis is the default value of indicative finiteness (i.e. Fin head) in the absence of operators signalling the contrary. This follows since all the information that amounts to a realis reading is encoded morphologically on the verb (i.e., mood, tense and aspect values). This empirical observation signals that the formal features supporting a realis modality are active in the inflectional layer rather than in the C domain of the clause.

Furthermore, when a complementizer occurs in a declarative clause, it is a ‘that’ element with no operator features. For example, when speech act heads in Romanian functionally select a ForceP root clause with an indicative verb, as in (4), Force may be optionally spelled out. The spell out for Force is că ‘that’ in these instances, as seen in (4a) under an evidential head, and in (4b) under an ostensive particle. However, că ‘that’ is incompatible with clause typing operators, as shown in (4c), which contains an interrogative operator: a wh-phrase is possible in this context, but not că ‘that’. Also, long distance extraction is possible across an embedded că ‘that’, as in (4d), indicating that Spec,ForceP is available as a transitional landing site in successive-cyclic movement, so cannot be occupied by another operator. For more information on the lack of clause typing operators in the presence of că ‘that’ in Romanian, we refer the reader to Dobrovie-Sorin (1994) and Alboiu (2002), among others.

\[(3) \ a. \ [CP \ ForceP > (TopP) > (FocP) > FinP] > IP/TP > vP \]
\[b. \ [(TopP) > (FocP) > FinP] > IP/TP > vP \]

(4) a. \textit{Bineîn\c{t}eles (că) Elena va sosî la timp.} \textit{Of course that Elena will arrive at time.}
   ‘Of course that Elena will arrive on time.’

b. \textit{Na (că) ne-au sosit musafirii.} \textit{PRT6 that to.us-have.3PL arrived guests.the}
   ‘Blimey, the guests have arrived.’

c. \textit{Bineîn\c{t}eles (*că) la cine altcineva vrei să meargâ?} \textit{of.course that to whom other want.2SG SUBJ go.3SG}
   ‘Of course, to whom else do you expect her to go?’

d. \textit{Ce spuneai [\textit{ForceP <ce>} că voia <ce>]?} \textit{what said.2SG what that wanted.3SG what}
   ‘What did you say s/he wanted?’

Note that we do not discuss French data, despite the fact that equivalent constructions do exist, see (5), as there is homophony between French que ‘that’ as complementizer and as interrogative or relative pronoun; the latter entail operators in Spec,CP/ForceP, which would confuse the evidence.

(5) \textit{Biensûr (que) je viendrais.} \textit{of.course that I come.1FUT}

\(^6\) This is an ostensive particle with no obvious structural English equivalent. For tests indicating a monoclausal structure in (4a, b) see Hill (2014).
‘Of course, I’ll come.’

Crucially, in Romanian, the complementizer că ‘that’ is distinct from the interrogative/relative ce ‘what’ or care ‘which’ that have operator features. This way it is clear that in root indicatives clause typing operators are not present in root indicatives, regardless of whether Force is projected or not.

Hence, we conclude that a declarative clause with an indicative verb converges to an assertion reading in the absence of an Assert(ion) clause typing operator, as all the necessary information for obtaining this reading is ensured through the morphosyntax of the TP domain. In light of this discussion, NIs and NGs, which also express assertions, must arise from a derivational mechanism that can recuperate the type of information that the morphosyntax of the TP provides in root indicatives.

4. Properties of narrative infinitives/gerunds

We next look at the defining properties of NIs and NGs in order to figure out their underlying structure. This is a prerogative for understanding how these constructions converge to an independent assertion reading. The two key empirical properties we identify are: (i) possibility of lexical subjects, where available, indicating that T is finite (i.e., it has independent temporal reference) despite the non-finite inflection of the verb; and (ii) the fact that the verb, be it infinitive or gerund, always raises out of vP, which indicates a probe situated high in the clause hierarchy.

The framework for assessment is the cartographic representation of clauses in Rizzi (1997, 2004), where the CP field is split as shown in (3). We maintain a non-split analysis of TP and vP, as only the CP shows variation with respect to the level of verb movement.

4.1. Subjects

NIs and NGs allow for independent lexical subjects in MF and OR, on a par with their indicative counterparts. These subjects - underlined in (6) and (7) - occur irrespective of whether the NI/NG is coordinated with an indicative root clause in (6a) or whether it occurs independently in (6b, 7). Note that (7) is also an out-of-the-blue context opening a chapter in the book.

(6) a. [il estoit yvre et se laisse tomber,  et  chacun de rire] MF
   he was drunk and REFL let fall.INF and everyone to laugh.INF
   ‘he was drunk and let himself fall and everyone laughed’ (Maupas 1625: 325)

   b. Lors Oudart se revestir. (Rabelais B. ii, Le quart livre, Chap. xiv: 32)
      then Oudart REFL.3 cloth.INF
      ‘Then Oudart clothed himself.’

(7) Traian întâiu, împăratul, supuindu pre dahii. OR
    Trajan first emperor.the conquering.GRD DOM Dacians
    Dragoş apoi în moldoveni premenindu pre vlahi.
Dragos then in Moldovans turning Vlachs
‘First, Trajan, the Emperor, conquered the Dacians. Then, Dragos turned some Vlachs into Moldavians.’ (Costin 11, 17th c)

These constructions do not qualify as ECM configurations since they are not selected, neither do they involve backward control. Nonetheless, they license Nominative subjects, as also noticed for French by earlier grammarians, such as Maupas (1625). In such contexts, the complementizer de situated in Fin, following Rizzi’s (1997, 2004) tests for French and Italian, may occur, as in (6a), but, crucially, is not obligatory, see (6b). It therefore cannot be assumed to be what licenses the subject (contra Mensching 2000). Furthermore, the OR equivalent in (7) lacks complementizers but displays lexical subjects. Since the licensing of subjects depends on the features of T, in turn determined by C as we discuss in Section 5, T must counts in some sense as finite in NI/NG, despite the non-finite (i.e. uninflected) morphology of the verb.

On the other hand, AF seems to be deficient in this respect. The data show no evidence of lexical subjects in NIs, neither in the corpus nor in elicited judgments. For example, the lexical subjects in (8) received a strong ungrammatical mark from all our native speakers.

(8) a. Vous les netteyez comme i faut pis vous prenez des foies,
you them clean.2 as it needs and you take.2 livers
pis de la farine et pis des ègnons pis (*vous) mettre
and some four and onions and you put.INF
ensemble, pis vous les remplissez, pis vous les mettez
together and you them fill.2 and you them put.2
à bouillir.
to boil.INF

‘You clean them properly, then you take some livers and some flour and some onions and you put them together, and stuff them, and you let them boil.’ (AT following Brasseur 1998: 86)

b. Ben dans les maisons c’était pas chaud. On brûlait du bois. (nous/*la mère) Faire du feu pis (*nous/*la mère) avoir des couvertes
well in the houses it was not hot we burned wood
we/the mother make.INF fire we/the mother have.INF blankets
pour s’abriter. Se levait le matin i faisait pas chaud <hm>
to cover Woke up the morning it made not hot
faulait que la mère faise de feu dans le poêle là pis
had that the mother make fire in the stove there and
(nous/*les enfants) manger des crêpes.
we/the children eat.INF pancakes

‘Well, it was not hot in houses. We burned wood. We made fire and had blankets to cover ourselves. We woke up in the morning, it wasn’t hot, the mother had to make fire in the woodstove and we ate pancakes.’ (AT following Wiesmath 4, M365/p. 78)
The NIs in (8) do not allow for lexical subjects, despite the fact that these subjects are present and repeated in the text in the coordinated indicative clauses. Although the examples in (8) show the ungrammatical subjects only in preverbal position (for visual clarity), the speakers were also consulted for post-verbal and clause final placement of such subjects. The judgments were unanimously negative.

Thus, descriptively, the following conclusions arise from the data in this section:
(a) In NI/NG, T licenses independent, Nominative subjects in MF and OR;
(b) T in NI is defective for subject licensing in AF.

4.2. Verb movement

The general observation is that, in root contexts, the infinitive or gerund verb systematically moves out of the vP, although an embedded infinitive may remain inside the vP in all French dialects (and when it raises it never moves above Negation; Pollock 1989). Verb movement in root contexts targets either T or Fin or Force, a fact that we show depends on dialect and/or time period.

4.2.1. V-to-T in MF and OR

V-to-T occurs in MF NIs and infrequently in OR NGs, as shown in examples (9) to (12) - this configuration is rare in OR texts. First, the tests verify that V is not in Fin, but somewhere lower in the hierarchy. The assessment criteria consist of lexical complementizers, preverbal pronouns (clitics or weak pronominal forms) that are T-oriented in Romance (Kayne 1991), including OR (Alboiu et al 2015), and non-clitic negation. If the verb is lower than these elements, then it is in TP domain.

Consider the word order in (9) and (10).

(9) Ha! ribault prestre, estes-vous tel? Et bon prestre à soy retirer. MF
ha debauched priest are-you so and good priest to REFLEX retire.VERB
‘Ha! you debauched priest, are you so? And the good priest was withdrawing.’
(Cent Nn B. II, N. 76)

(10) a. iar cuconu mirele cu ochi negri le privind. (Gabinschi 2010: 83) OR
and mister groom.the with eyes black them=watching.VERB
‘The groom watched them [the earrings] with black eyes’

b. Ce nu lasându în voia căpăteniilor de Ardeal împăratul
but not leaving.VERB at will.the captains.the.GEN of Ardeal emperor.the
nemtescu, au socotit și cu sabiu să-i supui, avându tocami cu Bator.
German has decided and with sword.the subj-them repress having deals with Bator
‘But the German Emperor, not leaving things at the will of Ardeal’s captains, decided to repress them by sword, having arrangements with Bator.’ (Costin 19)

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8 See the position of the infinitive verb (underlined) in relation to souvent (Pollock 1989): le fait de ne pas souvent se voir versus le fait de ne pas se voir souvent (English, ‘the fact that they don’t see each other often’).
9 “In Old French, the object pronoun appears as a weak form before the main verb in the infinitival non prepositional structures […] but most often it appears as a strong form before the infinitival verb when the structure is prepositional.” (Martineau 1991:235).
In (9), the MF infinitive verb is lower than the complementizer à ‘to’ and the preverbal reflexive pronoun soy. Similarly, in OR, the gerund verb is lower than clitic pronoun le ‘them’ in (10a), and also, as seen in (10b), is lower than the non-clitic negation nu ‘not’, which selects T in Romance (Zanuttini 1997). Hence, V is lower than Fin.

The second round of tests aims to show that the same type of verb is moved out of vP. The assessment criteria are temporal adverbs, which necessarily merge directly in the TP field; and, for OR, the possibility of VS with lexical subjects in situ (i.e. in Spec,vP), which indicate verb raising.

Accordingly, the infinitive verb has undergone verb raising in MF, since it is higher than the temporal and aspectual adverbs related to the TP field, such as auparavant ‘previously’ in (11a) and soudain ‘suddenly’ in (11b) - see hierarchy in Cinque (1999).

(11) a. j’avons vu les deux hommes tout a plain, qui nous faisant signe de les aller querir; we have seen the two men all in clear who to.us made sign to them go fetch et moi de tirer auparavant les enjeux. (Molière; Festin II, 1)
and I to get.out.INF in.advance the bets ‘[…] and I previously got my bets out’

b. Moi de dire soudain que sa bonne fortune I DE say.INF suddenly that his good fortune Ne lui pouvoit offrir d’heure plus opportune; not him could offer hour more favourable (Corneille, L’Illusion comique, IV. 2, 1085).
‘I suddenly said that his good fortune could not offer him a better opportunity.’

For OR, NGs allow for subjects in situ, as in (12), where the subject nemții ‘the Germans’ precedes the direct object oaste cu turcii ‘war with the Turks’. The gerund verb având ‘having’ is to the left, so higher, than the in-situ subject, hence it has raised out of the vP. However, the gerund follows the temporal adverb atunce ‘then’, so it resides in T.

(12) Atunce având [v nemții oaste cu turcii ] încă de then having Germans.the war with Turks.the already from la Beci, și tot bâte nemții și să lăție. at Beci and relentlessly hit Germans.the and REFL spread ‘By then the Germans had already had war with the Turks since Beci, and the Germans were hitting relentlessly and were spreading themselves.’ (Neculce 95)

The conclusion is that, with both MF infinitives and with some OR gerunds, the verb is between Fin and v, so in T (or in a head of the TP field if a split TP cartography is used).

Note that the verb moved out of vP in Old French NIs as well, as shown in (i), where it occurs above sentence adverb toutefois ‘though’, which can never be merged in vP.

(i) Quant il vit ce, et il dou combatte toutefois comme huem desesperez when he saw this, and he DE fight.INF though as man desperate (Li fet des romains: 308, 21)
4.2.2. V-to-FIn or Force in AF and OR
The same kind of word order tests indicate that NIs in AF and the productive NGs in OR display verb movement higher than T.\footnote{In OR, V-to-FIn is the default option with gerunds, although V-to-T is also concurrently attested up to a point.} In particular, the location of the verb in relation to temporal adverbs is leftward, as seen in (13) and (14); this indicates that the verb is higher than TP (to which these adverbs adjoin) for both AF NIs and OR NGs.

(13) a. \textit{On avait une pelle pis \text{pelleyer} aut’fois devant le cheval.} \text{AF} \hspace{1cm} \text{INF we had a shovel and shovel in front of the horse}
\hspace{1cm} ‘We had a shovel and yore we used to shovel in front of the horse.’

b. \textit{Pis là \text{asteure} quand c’était toute tchuit, y \text{avait presque pas} d’eau là, pis là \text{i} le bouillaient, \text{faire} \text{asteur} une sauce dedans.} \text{AF} \hspace{1cm} \text{INF now water and they it boiled make now a sauce in there}
\hspace{1cm} ‘Then, now that all was well cooked, there was almost no water there, and they boiled it, and now made a sauce with it’ (AT adapted from Brasseur 1998: 87)

(14) \textit{Ştefănita-vodă \text{vrând} odată să \text{scoată} fumărit \text{pe} \text{țară} \text{OR} \hspace{1cm} \text{GRD want once impose smoking tax on country}}
\hspace{1cm} ‘King Stefanita wanted \text{at one time} to impose a smoking tax...’ (Neculce 120)

Nonetheless, as we show in the next section, verb movement behaves differently in AF than it does in OR, a fact we attribute to different landing sites in the CP field.

4.2.2.1. V-to-Force in AF. NIs in AF stand out as being systematically V1. A set of properties, as listed below, concur for yielding the V1 configuration.

- Absence of complementizers. NIs in MF show free alternation between the option without complementizer and the option with complementizer (i.e., à, but mostly de). However, AF systematically displays the option without a complementizer, which, in conjunction with other word order restrictions (see below), amount to a V1 word order.

- Absence of preverbal negation. Consider (15):

(15) a. \textit{I \text{jouiont aux cartes, [(pas) \text{boire} de la bière]} \hspace{1cm} (AT)}\hspace{1cm} \text{they played at the cards not drink of beer}
\hspace{1cm} ‘They were playing cards, they did not drink beer’

b. \textit{Ah ben j’ai \text{peur} \text{de pas réussir.}} \hspace{1cm} (FANENB, 2:016)
\hspace{1cm} ‘Ah well I have fear to not succeed’

\hspace{1cm} ‘Ah, well, I’m scared of not succeeding.’

c. \textit{I \text{jouiont pas aux cartes, [(pas) boire ((pas) de la bière)]} \hspace{1cm} (AT)}\hspace{1cm} \text{they played not at the cards not drink of beer}
\hspace{1cm} ‘They were not playing cards, they did not drink beer’
In (15a), preverbal negation is ruled out in the NI, although it is grammatical with embedded infinitives, as attested in (15b), taken from Beaulieu’s corpus. The native speakers consulted had no hesitation concerning (15a), but showed hesitation and variability for (15c), where the negation is introduced in both the indicative and the NI. For speakers that allowed negation in both clauses, only the postverbal position for pas ‘not’ in the NI was deemed acceptable. Following Zanuttini (1997), clausal negation (i.e. Neg) in Romance selects TP; hence, at first sight, its absence would indicate that the relevant T features are not available or that T is absent altogether. T absence would account for (15a) but not for (15c) where pas ‘not’ is allowed in NI by some speakers. In addition, even for speakers that fail to allow for the overt presence of pas ‘not’ in the NI of (15c) the situation can be recovered at LF given the negative interpretation of the NI. In that case, the negation would still have to be merged in the syntax and select a TP. Crucially, the overt location of pas ‘not’, when permitted, indicates that the infinitive verb is higher than T, so in Fin or Force.

In sum, the data in (15) show two important properties of AF NIs: (i) T cannot be selected by Neg unless Neg is present in the matrix, which amounts to saying that T in NI is present but inactive for independent negation; (ii) the infinitive verb in NI is above the TP field.

- Auxiliaries are ruled out. Notably, AF infinitives do not generally show auxiliaries, but that is a matter of preference, whereas with NIs, it becomes a matter of grammaticality; this is shown in (16).

(16)  a. I regrettiont avoir fait ça. (AT)
    they regretted have done this
    ‘They regretted to have done this.’

    b. *I aviont joué aux cartes, avoir bu de la bière. (AT)
    they had played with cards have-INF drunk of the beer
    Intended: ‘They had played cards, they had drunk beer.’

Native speakers accept an auxiliary with the embedded infinitive in (16a), but not with a NI, as in (16b). As verbal functional heads, auxiliaries merge in the Infl/T domain so their absence potentially denotes something about the properties (or lack thereof) of this level in AF.

- There is no fronting to the left periphery. This is shown in (17b) where constituent fronting rules out the NI introduced in (17a). Compare (17b) to (17c) with an embedded infinitive.

(17)  a. I alliont veiller dans les maisons, pis i contiont
    they went invigilate in the houses and they told
    des contes et i chantiont, i jouiont aux cartes, [boire
    stories and they sang they played cards drink-INF
    de la bière, du home-brew]. (Brasseur 1998: 87)
    beer some home-brew
    ‘They went to keep vigil in houses, and they told stories and sang, they played cards and drank beer, home-brewed.’

    b. I jouiont aux cartes, ([*toult l’temps]) boire de la bière... (AT)

12 In particular, nine out of the fifteen speakers allowed for (15c) with pas ‘not’ in both clauses.
they played cards all the time drink-INF beer
Intended: ‘They were playing cards, they drank beer all the time.’

c. Ah ça peut pas [[toutes les fois] y aller ben.] (Beaulieu/FANENB, 1:006)
ah it can not all the time go-INF well
‘Ah, it can’t go well all the time.’

The example in (17a) comes from Brasseur’s (1998) study of AF infinitives. While maintaining the coordination of root indicative and NI clauses as in the original, we introduced the fronted constituent tout l' temps ‘all the time’, which is attested in Beaulieu’s corpus for embedded infinitives, as shown in (17c). This fronted constituent is ruled out (17b), which indicates that the infinitive verb must occupy the first position in the NI.

The tests in (15) to (17) indicate a sharp contrast between the behavior of the verb in NIs versus in embedded infinitives. More precisely, embedded infinitives keep the verb low in the structure (i.e., lower than complementizers, negation, auxiliaries and proclitics), as also discussed by Pollock (1989) for standard French, whereas NIs are systematically V1.

Two analyses of NIs may arise from the AF data: one is to assume that the NI is a truncated structure that does not project beyond vP. The second is to consider that the NI is a ForceP, with V-to-Force and inactive T.

The following properties rule out a truncated vP structure for AF NIs:

1. **Coordination.** As shown in many of our examples, NIs can be coordinated with root indicatives, which are CPs (Chomsky 2008 and subseq). It is well known that coordinated members must be of identical category and size (i.e. DP with DP; NP with NP; etc.; Johannessen 1998 a.o.) both syntactically and semantically. Hence, AF NIs must have CP status.

2. **Negation.** Although negation is not a default option in NIs, it may be lexicalized for some speakers in some contexts, as seen in (15c). Furthermore, when it is, it is constrained to a postverbal position. As discussed, this indicates the presence of a TP, which automatically rules out a truncated vP structure, because, as discussed, Neg selects TP, and not vP.

3. **Subjects.** Some root vPs contextually allow for lexical subjects with default Case (so not licensed by finite T). This holds in child language (Rizzi 1994) or in adult grammars with truncated structures (Progovac 2008). Lexical subjects are completely disallowed in AF NIs. This would be difficult to account for under a vP analysis where a subject with default Case would be expected.

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13 The semantic identity is essential as some categorial/syntactic exceptions are apparently permitted in certain contexts as long as the semantics is identical; consider (ia), with DP and AP, or (iib), with AP and PP seemingly coordinated. In fact, what is being coordinated are either two semantic predicates (ia), or two semantic adjuncts (ib), quite possibly indicating vP coordination and AdjunctP coordination, respectively.

(i) a. He is [vP/DP an unpleasant person] and [vP/AP unlikely to find any friends soon].
   b. She arrived, [AdjunctP/AP flustered] and [AdjunctP/PP in a fit].

Since root indicatives are assertive propositions, the same holds of coordinated NIs (see also Nikolaeva 2014), which crucially indicates a CP status as vPs are not propositional.

14 Even if we want to assume that the negation is somehow inserted post-syntactically – which should be ruled out given the Principle of Full Interpretation, anyway - its post-verbal position is left unaccounted for as negation should be above vP, not inside it.

15 Examples from Progovac (2008):

(i) Peter retire?! Him worry?!
(iv) Adverbs. As shown in (13), adverbs related to the T domain are possible in AF NIs, as long as these occur in post-verbal position. This is a clear indication that the TP domain is present, and, given linearization facts, that the infinitive verb is higher than TP.

In conclusion, empirical and theoretical properties of AF NIs rule out a vP, truncated analysis. Rather, these constructions involve propositional CPs, with V-to-C/Force (given the V1 requirement), but an inactive T. Section 5 argues that V moves to Force to check the null AssertOP in Spec,ForceP. Last but not least, from a diachronic perspective, V-to-C/Force is more plausible than a truncated vP analysis because V1 is reminiscent of V2 configurations with null operators in Spec,CP shown to occur at earlier stages of French (Labelle & Hirschbühler 2011).

4.2.2.2. V-to-Fin in OR. Section 4.1 provided data showing that OR sometimes displays V-to-T in NGs. This option is not productive, and competes with higher V movement, as in (18) and (19), which texts show to be the preferred option by far. This suggests that V-to-T was disappearing by the 16th century (see also arguments in Hill & Alboiu 2016).

(18) Şi Ştefan vodă tocmisă puţini oameni preste lunca
and Stefan king organized few men over valley
Bârladului, ca să-i amâgească cu buciune şi cu
Birlad.the.GEN that SUBJ-them tease with oboes and with
trâmbiţe, dându semnă de război; atuncea oastea turcească
trombones giving sign of war then army.the.Turk
întorcându-să la glasul buciunelor şi împiedicându-i şi
turning.GRD-REFL at voice.the.oboes.the.GEN and blocking.GRD-them and
apaşi lunca şi negura acoperindu-lu-i, tându
water.the and valley.the and fog.the covering.GRD-them cutting.GRD
lunca şi sfârâmându, ca să treacă la glasul bucinilor. (Ureche 100)
valley.the and crushing.GRD that SUBJ cross to sound.the.oboes.the.GEN
‘King Stefan organized a few men across the Birlad valley in order to tease them [the enemy] with oboes and trombones, by emitting the signs of war; then the Turkish army turned towards the sound of oboes, but the water delayed them, and the valley and the fog covered them when they were cutting through the valley trampling it, trying to cross towards the sound of the oboes.’

(19) Decii Roman vodă neputându să-şi îngăduiască cu văru-său,
so Roman king not.being.able.GRD [TP SUBJ-REFL put.up with cousin-his
cu Pătru, ficiarul lui Ştefan vodă, pentru domnie, că cerea Roman
with Petru son.the of Stefan king for throne ] because asked Roman

Note, furthermore, that, in English, truncated root infinitives crucially never allow for Nominative lexical subjects, Me/(*I) say something like that? This indicates that the default subject is not licensed by T.

16 In modern Romanian gerunds display exclusively high V-motion to Fin.
să omoară pe Pătru, de i-au căutatu a fugi lui Pătru vodă la unguri.

Therefore, King Roman was not able to put up with his cousin, Peter, King Stefan’s son, in their co-reigning, because Roman was asking for Petru to be killed, so that it occurred to Petru to run away to Hungary.’ (Ureche 84)

In (18), the gerund (in bold) displays enclitics, which indicates V movement above the T level. However, preverbal constituents (underlined) are still available: both the adverb *atuncea* ‘then’ and the subjects *oastea turcească* ‘the Turkish army’ and *negura* ‘the fog’ precede the gerund-enclitic sequence. Similarly, in (19), the lexical subject, *Roman vodă* ‘King Roman’, is preverbal. Preverbal subjects in OR are topics, so the gerund is higher than T, but lower than TopP. This indicates Fin as the landing site of V movement in gerund clauses. The negation *ne*-occurring on the gerund in (19) is a verbal prefix, so it does not block V-to-Fin movement. Compare with (10b), where the non-clitic negation *nu* blocks verb movement and keeps the gerund lower, in T. V-to-Fin gerunds allow only for affixal negation (Hill & Alboiu 2016).

We conclude this section by pointing out that grammars that allow for NIs and NGs display obligatory verb movement of various types in these contexts, be it V-to-T, V-to-Fin or V-to-Force. The next task is to identify the features that uniformly trigger verb movement in these constructions, as well as the features that account for the variation in the level of movement and the other observed syntactic properties.

5. Clause typing for assertions

This section starts by arguing for an Assert OP in the Spec,ForceP of NIs/NGs (versus root indicatives). It then discusses the observed variation arising within the ForceP field containing an Assert OP (i.e., presence or absence of subjects; different levels of verb movement). This discussion involves the feature distribution within the C-T system, which we consider to be the key trigger of variation and diachronic change in these constructions.

5.1. Common core and Assert OP

In this subsection, the focus falls on the properties that are systematically and cross-linguistically present in NIs and NGs. These constitute the common core of the syntactic structure that allows for such derivations to converge.

In this respect, one common property of NIs/NGs in MF, AF, and OR is their CP/ForceP structure. That is, although complementizers, as well as other constituents associated with the CP field (e.g., topic or focus), may be missing, these derivations always project structure up to the ForceP/phase level. This is indicated by several properties, as already discussed: (i) the propositional nature of these constructions; (ii) when independent lexical subjects occur, these are Nominative (versus default Accusative), which denotes a property of CP phases; (iii) the fact that coordination may take place with root indicatives, which are indubitable CP phases; and (iv) the fact that infinitive/gerund verbs reside higher than the vP phase – hence, the structures cannot involve truncated vP domains.
For the sake of clarity, we offer the examples in (20)-(22) which again illustrate the similar behaviour of NIs/NGs and root indicatives. In (20), the NI in MF is coordinated with a root indicative. In (21), in AF, the entire second sentence consists of two coordinated NIs which count as root clauses. In (22), the NG in OR occurs as the first term of the coordination involving a root indicative so cannot depend on the root indicative for its convergent derivation, while in (7), repeated as (23), there is no coordinated indicative that the NG could derive its features from.

(20) \[il \ s'éloigna tout honteux] et [nous de rire] \[MF\]
he departed very embarrassed and we to laugh-INF
‘he was receding very embarrassed and we were laughing’ (Luker 1916: 174)

(21) \[On brûlait du bois. Faire du feu pis avoir des couvertes\]
we burned-INF of wood make-INF of fire and have-INF covers
for REFLEX COVER
‘We burned wood. We made a fire and had blankets to cover ourselves.’ \[AF\]
(Wiesmath 2006: 78; 4, M365)

(22) \[Postindu-mă şi voi îi dezlegă a mâncă, şi nu mă voi îi arăta.\]
fasting-GRD.REFL and will.1SG stop to eat and not me=will.1=show
‘I will fast and will stop eating and will not show myself.’ \[Coresi EV \{4\}\] \[OR\]

(23) \[Traian întâi, împăratul, supuindu pre dăhii.\]
Trajan first emperor.the conquering DOM Dacians
Dragos apoi în moldoveni premenindu pre vlahi.
Dragos then in Moldovans turning DOM Vlachs
‘First, Trajan, the Emperor, conquered the Dacians. Then, Dragos turned some Vlachs into Moldavians.’ (Costin 11, 17th c)

Another cross-linguistic property of NIs/NGs is that their clause coordination is restricted. That is, coordination is allowed either between NIs, see (21), or NGs, see (23), or with declarative root indicatives, as in (20), (22), but never with an interrogative clause. This restriction is shown in (24), with data obtained from AF native speakers. Insofar as texts are concerned, we can only rely on negative evidence in this respect.

(24) a. \[*I jouiont-ti aux cartes et boire-(ti) de la bière?* (AT)
they played-Q cards and drink-INF.Q beer

b. \[*Où jouiont-i aux cartes et boire-(t-i) de la bière?* (AT)
where played-they cards and drink-INF.-they beer

In (24a-b), coordination is ruled out between a root interrogative with an indicative verb and a NI, irrespective of the type of interrogative (i.e., yes-no in 24a versus wh-interrogative in 24b). However, AF infinitives are nonetheless compatible with indirect interrogatives, as seen in (25), so something other than infinitive status must be the blocking factor in (24).
This confirms the contrast between NIs and embedded infinitives already observed in the previous section, while also indicating competition between the interrogative operator and some other operator in the Spec,ForceP of AF NIs.

Crucially, as previously mentioned and as also observed elsewhere for NIs (e.g. Nikolaeva 2014), NIs and NGs have an **obligatory realis/assertion reading**, which explains exclusive coordination with root declaratives that have a similar reading.

Finally, despite variation seen in other properties, all NIs/NGs show verb movement out of vP, either to T or to Force or Fin. This is a non-trivial matter especially considering that infinitive verbs need not (or cannot) raise in embedded contexts in Romance.

In sum, all NIs/NGs share the following four core properties: (i) CP/ForceP phasal structure; (ii) restricted coordination: (a) never with interrogative CPs; (b) always with assertions; (iii) V movement outside of vP. We take these four shared properties to support our working hypothesis which postulates an Assert OP in the Spec,ForceP of NIs/NGs. The relevant configuration is shown in (26).  

17 An anonymous reviewer asks how the morphology knows, for configurations such as (26), that the verb must be an infinitive or a gerund, especially given that Fin is [+finite]. It does not. The spellout of the verb depends on the frequency clues. For instance, in OR, either the infinitive or the gerund are candidates for the same configuration (narrative/root infinitives are also attested in OR), but the gerund was the preferred spellout option. The important point is that the presence of an Assert OP in the derivation forces a non-finite verb form to be semantically interpreted as a finite assertion.

18 We use Chomsky’s (1995) ‘strong’ versus ‘weak’ feature distinction as a generic labelling for a feature setting that triggers movement into its domain versus one that can be checked long distance under Agree and c-command. Chomsky (2000, 2001) updates this labelling to presence versus absence of an EPP feature (i.e. ‘selectional’ versus ‘non-selectional’ feature, respectively).
function as finite, whereas in embedded contexts, where an Assert OP does not apply, infinitive T is bound by matrix T as an anaphor (e.g., through a Zeit OP as proposed in Bianchi 2007).

The next section refines the feature-checking mechanisms that license these structures and accounts for the empirical variation noticed in the data.

5.2. Variation in feature-checking and locus of features

If the previous subsection looked at the shared core properties of NIs/NGs cross-linguistically, in this subsection, the focus falls on cross-linguistic variation observable in these contexts, namely, the level of verb movement and other differences such as presence/absence of independent lexical subjects. We aim to show that these can be accounted for as a result of the parametrized cross-linguistic options relating to the feature transfer mechanisms between C and T alongside feature-checking options. We first introduce the relevant theoretical background and then provide an analysis for the NI and NG derivations.

5.2.1 Theoretical background and C-T features

The paper discussed variation that goes beyond the landing site of V movement. For example, AF does not license lexical subjects in NIs, nor does it allow for clitics, although MF and OR display both items in these same contexts (see section 4.1). Ungrammaticality with lexical subjects in AF was shown in (8). In (27), we further illustrate the extent to which AF also avoids clitics in NIs, be it in pre- or post-verbal position.

(27) a. Pis là asteure quand c’était toute tchuit, y avait presque
and there now when it was all cooked there was almost
pas d’eau là, pis là i le bouillaient, [faire une sauce dedans],
not water and they-it-boiled make.INF a sauce inside
faulait que je rempliais une cuillérée ou deux de farine de blé, là,
needed that I filled a Tbsp or two of flour of wheat
dans, avec de l’eau là, [mettre ça plein], pis vous vidiez dedans là,
inside with water put.INF it full then you emptied inside
tandis que ça bouillait, là. (Brasseur 1998: 87)
while that it boiled there.
‘Then when all was well cooked, there was almost no water there, and they boiled it, made a sauce with it, I had to fill one or two spoons with wheat flour and some water, I put (the flour) in until full (pasty), then you emptied this inside (the pot) while it’s still boiling.’

b. Pis là asteure quand c’était toute tchuit, y avait presque
and there now when it was all cooked there was almost
pas d’eau là, pis là i le bouillaient, [(*y) faire une sauce],
not water and they-it-boiled in-make.INF a sauce
faulait que je rempliais une cuillérée ou deux de farine de blé, là,
needed that I filled one Tbsp or two of flour of wheat
dans, avec de l’eau là, [(*en) mettre ça plein], pis vous vidiez.... (AT)
in with water of it put.INF it full and you poured
c. ça va finir par y aller mieux (Beaulieu/FANENB 16.3)
   this will end by go better
   ‘this will end up by being better’

d. j’ commence plus à en faire. (Beaulieu/FANENB 1: 163)
   I start more to of.it do
   ‘I start to not do it more.’

As a general rule, on a par with other Romance languages, AF has T-oriented clitic pronouns. These are excluded from NIs, as seen in (27b), although, as shown in (27c, d), clitic pronouns such as y and en are attested as proclitics on embedded infinitives more generally. Instead, in NIs, constituents such as AdvPs and DP demonstratives must be used, which in (27a) correspond to dedans and ça, respectively. Absence of clitics in AF NIs cannot be attributed to verb head movement, as AF imperatives show that clitics do not interfere with V-to-Force movement. Consider (28) where the AF imperative allows for enclitics (see also Kayne 1994).

(28) Regardes-les voir, mes dessins! (from Léger 2018: 16)19
    look.2MP-them PART my drawings
    ‘Look at my drawings!’

Furthermore, in Section 4.2.2.2 clitics were equally shown to occur in OR NGs in the presence of V-to-Fin head movement, so some property beyond head-movement constraints must be responsible for blocking clitics in AF NIs.

In sum, on the one hand, the restriction on clitics in (27) needs to be related to something other than V-to-Fin or to V-to-Force, and on the other hand, in Romance, both lexical subjects and clitics are licensed at T. We suggest that both issues concern the interplay of features in the C-T system given that T inherits these licensing properties from the CP phase.

In particular, we adopt the following two theoretical proposals put forth in current literature, with the relevant symbiosis and adaptation in Miyagawa’s (2010, 2017) work:

(i) The feature inheritance/transfer theory introduced in Chomsky (2005, 2007, 2008 etc) whereby all A-features are a property of the C phase head that then transfers them to a selected head (i.e. to T).

(ii) The treatment of clitic pronouns in Delfitto (2002): clitic pronouns are defined as Agr spellouts (versus verb arguments) for the discourse relation between a [topic] feature at C and the comment provided in the TP.

These two proposals are implicitly unified in Miyagawa (2010, 2017), where the main tenet is that C is the site where two sets of features are merged: φ-features, which reflect the relation between subjects and verbs; and δ-features, which reflect the relation between topic/focus and comment/presupposition. While this is a universal property of the C phase, Miyagawa shows that there is cross-linguistic variation with respect to feature transfer possibilities from C to T (see also Lochbihler & Mathieu 2016). In particular, both these two feature sets may be transferred to T, or only one of them, or neither one. Accordingly, Miyagawa (2017) (also following Jiménez-Fernández & Miyagawa 2014) establishes the cross-linguistic typology in (29).

---

19 Léger argues that AF reanalysed voir (originally meaning ‘to see’) as a pragmatic marker for injunctions in imperative contexts.
Miyagawa’s 2017 typology:

Category I: Cφ, Tδ
Japanese

Category II: Cδ, Tφ
English

Category III: C, T φ/δ
Spanish

Category IV: Cφ/δ, T
Dinka

In light of (29), Romance languages fall under Category III, on a par with Spanish, since they display subject-verb agreement (i.e., φ at T) and T-oriented clitics, which are a reflection of [topic] features - hence, there is also transfer of δ to T in these languages, on a par with the transfer of φ.

Nonetheless some refinements are in order.

First, under the cartographic mapping we are working with, it needs to be made clear that the C phase head is equivalent to Force in (3a), repeated here as (30). Following Rizzi (1997, 2004), Fin is the location of φ-features in C, together with modality.

\[ CP \text{ ForceP} > (\text{TopP}) > (\text{FocP}) > \text{FinP} > \text{IP/TP} > \text{vP} \]

Second, the data from most Romance languages indicate that the δ transfer to T is a too strong analysis if δ stands for [topic]/[focus]: although clitics do occur at T, fronted constituents with topic/focus readings remain in the CP domain. Consider, for example, (31), with the word order in a typical OR root subjunctive clause (preserved in modern Romanian):

(31) a. Pre acestū omū iară să-l aduceți la mine.
   DOM this man again SUBJ=him bring.2PL to me
   ‘Bring this man to me.’ (Costin 95)

   b. Scrisă amu iaste că îngerilor tăi zis1ai [de tine]
      written now is that angels.the.DAT your told=have.2SG from tine
      să te păzească şi [pre mâni] să te ia
      you= guard.SUBJ.3PL and by hands SUBJ you= take.3
      ‘It is written now that you told your angels to guard you from yourself and to take you by the hand’ (CT, 120v apud Dimitrescu 1963)

In (31), the subjunctive marker să is in Fin (Hill & Alboiu 2016; Nicolae 2015). A direct object DP is fronted to contrastive TopP in (31a) and a PP is fronted to FocP in (31b). In both examples, the fronted constituents are higher than Fin-șă, hence, they occupy TopP > FocP between Force and Fin. However, they cooccur with clitics on T (i.e., necessarily CLLD for Delfitto 2002). Hence, a distinction must be drawn between the [topic]/[focus] features that probe for XPs, and the discourse agreement relation of these features with the predication, which is reflected through clitics at T. Thus, we must nuance Miyagawa’s terminology, and point out that what δ transfer to T involves in Romanian (and probably for all the languages of Category III) is discourse Agr, not the discourse features themselves.

Overall, the discourse fronting described for Romanian in (31) was also shown to apply in Italian (Rizzi 2004) and even in Spanish. For the latter, Demonte & Fernández-Soriano (2004) show that all types of topic constituents are in the CP domain since they can occur between
que... que (i.e., Force and Fin respectively) in recombination constructions, although the resumptive clitics are systematically at T. Jiménez-Fernández & Miyagawa (2014) argue for a topic position in Spec, TP in some instances (i.e., familiar and contrastive topics). This means that the [topic] feature itself is transferred to T in these instances, and that Spanish is either of Category I (for aboutness topic) or of Category III (for contrastive and familiar topics). This type of discriminations do not apply to French, Italian or Romanian finite clauses, which rather follow the discourse hierarchy in Frascarelli & Hinterhölzl (2007), where, although TopP can be further split in more discrete functional projections, it remains in the CP field, above Fin.20

In view of this theoretical background, we can now examine the φ-feature and δ-feature sets in NIs/NGs, as these derivations systematically project to a CP/ForceP phase.

5.2.2 φ-feature and δ-feature sets in NIs/NGs

It is important to understand that, given the non-finite form of the verb (i.e. infinitive and gerund), the φ-feature set cannot be assumed to reside in T in NIs/NGs (otherwise these derivations would be spelled out with an inflected V, as indicatives). In fact, since infinitives and gerunds are inherently non-finite domains, their Fin heads lack any intrinsic φ-features to transfer to T. This is where the Assert OP plays a crucial role. It is an obligatory ingredient of an NI and NG derivation as it provides the necessary realis modality and finite features (i.e. φ-features) to allow for matrix clause status and coordination with declarative indicatives. So, in NIs/NGs, φ-features are introduced by the presence of the Assert OP and not because they intrinsically reside on C/Fin. So, crucially these features stay in C. In effect, Assert OP is licensed by feature-checking of Fin φ-features and [modal].

Concurrently, NIs and NGs display a set of modal features arising from the use of AssertOP, and which is not present in root indicatives. More precisely, AssertOP triggers a realis [modal] feature in Fin, and this modal feature is chain related to the [mood] feature of T (for [mood] in T, see D’Alessandro & Ledgeway 2010).

φ-features and [modal] in Fin require licensing, and the presence of these features must be signalled overtly (Strong Uniformity, Miagawa 2010). This explains the consistent verb movement we see in NIs/NGs cross-linguistically. Crucially, V-to-T is both necessary and minimally sufficient for feature checking as checking of the [mood] feature signals presence of the realis [modal] feature in Fin. Whether checking of φ-features and modality in C requires further movement is a matter of parametrization and feature strength (strong vs weak), as with any feature-checking mechanism.

Interestingly, diachronic change seems to indicate a strong preference for lexicalization of the Fin head in order to license the Assert OP in Spec,ForceP.21 For example, an idiosyncratic tendency for regularization in Romanian was that [modal] in Fin had to be spelled out (e.g., să for subjunctive; a for infinitive). If no dedicated Fin complementizer existed, V-to-Fin would supply the lexical material. This involved not only gerunds but also supine clauses, which also lack a dedicated Fin complementizer (Hill & Alboiu 2016). Equally in Middle French, de in Fin becomes obligatory by the 17th c (i.e. it is optional in Rabelais but obligatory in La Fontaine). On

20 Note that the presence of CLLD does not necessarily entail feature transfer of δ to T. Church Slavonic and the modern upsprings have C-oriented clitics (Pancheva 2005), meaning that the δ agreement remains at C, together with the topic feature.
21 We can think of the tendency to lexicalize Fin as a Recoverability mechanism ensuring that a syntactic unit with semantics must be pronounced unless otherwise retrievable (à la Pesetsky 1998).
the other hand, $\delta$-features are not related to finiteness, so these may be present on T even in non-finite contexts (i.e., when $\varphi$-features are not transferred to T).

The configuration introduced in (26) for NIs/NGs is thus refined as in (32b-d); (32a) shows a root indicative, for contrast:

(32) a. Root indicatives in Romance: C/Fin $\varphi$-feature (& $\delta$-feature) transfer

\[
\begin{array}{ll}
[\text{ForceP Force} ([\text{TopP XP Topic}] [\text{FinP Fin} [\text{TP } \nu-T_{[\text{fin}]}/[\text{mood}]/[\text{\(\delta\)}]] [\nuP \ldots <\nu>\ldots]])]]) \\
\end{array}
\]

b. V-to-T movement and long-distance checking of features in C

(i.e. earlier MF NIs and some OR NGs):

\[
\begin{array}{ll}
[\text{ForceP AssertOP Force} ([\text{TopP XP Topic}] [\text{FinP } \text{Fin}_{[\varphi]}/[\text{realis}] [\text{TP } \nu-T_{[\text{fin}]}/[\text{\(\delta\)}]] [\nuP \ldots <\nu>\ldots]])]]) \\
\end{array}
\]

c. V-to-T movement and lexicalized Fin (i.e. MF NIs):

\[
\begin{array}{ll}
[\text{ForceP AssertOP Force} ([\text{TopP XP Topic}] [\text{FinP } \text{de-Fin}_{[\varphi]}/[\text{realis}] [\text{TP } \nu-T_{[\text{fin}]}/[\text{\(\delta\)}]] [\nuP \ldots <\nu>\ldots]])]]) \\
\end{array}
\]

d. V-to-Fin movement (i.e. OR NGs):

\[
\begin{array}{ll}
[\text{ForceP AssertOP Force} ([\text{TopP XP Topic}] [\text{FinP } \nu-Fin_{[\varphi]}/[\text{realis}] [\text{TP } <\nu>-T_{[\text{fin}]}/[\text{\(\delta\)}]] [\nuP \ldots <\nu>\ldots]])]]) \\
\end{array}
\]

Crucially, NIs/NGs display $\varphi$ in Fin, checked by the V in T, in (32b); by lexicalization of Fin, in (32c); or by the V in Fin, in (32d). The presence of $\varphi$-features in Fin/T explains why root indicatives can license subjects. AssertOP is responsible for making this possible, since it selects for a finite Fin. The question then is why we only see lexical subjects in some NIs/NGs rather than across the board: recall that these are permitted in MF and OR but not in AF.

Unlike in MF NIs and OR NGs, V-to-Fin is insufficient to license the Assert OP in AF. Furthermore, not only are subjects lacking, but so are clitics, despite their presence in AF embedded infinitives (i.e., CLLD is allowed). This suggests that there is no Fin with $\varphi$-features and there is no $\delta$ at T. This in turn would explain the obligatory V-to-Force in the NIs of AF: lexicalization of Force is the only manner of licensing the Assert OP in the absence of a split CP. This yields a configuration as in (33) for NIs in AF:

(33) V-to-Force (i.e. AF NIs):

\[
\begin{array}{ll}
[\text{Force/FinP AssertOP } \nu-\text{Force/Fin}_{[\varphi]}/[\text{realis}] [\text{TP } <\nu>-T_{[\text{fin}]}/[\text{\(\delta\)}]] [\nuP \ldots <\nu>\ldots]]) ] ] \\
\end{array}
\]

At this point we are not sure why CP fails to split in these configurations in AF. However, there are other cross-linguistic instances where C/ForceP phasal infinitives with $\varphi$-features fail to split into Force and Fin and require V-to-Force. Consider the Romanian example in (34), where the infinitive subject clause (obligatorily a CP phase) licenses an interrogative subject cine ‘who’ - so $\varphi$-features must be present - but lexicalization of Fin (i.e. $a$), which is otherwise always obligatory in Romanian infinitives (both embedded and adjuncts) is ruled out. Crucially this configuration is only possible in interrogative clauses which would be ruled out with NIs as these are assertions.

(34) N-are [C/ForceP cine (*a) câştiga din asta].

not-have [who win. Inf of this]

‘No one has anything to win from this.’
Lastly, there are two NI/NG properties that require comments in light of the above analysis. One is the absence of subjects in AF NIs, despite the presence of a CP phase and φ-features. Given that in-situ-subjects are ruled out in AF (Motapanyane 1997), this is likely due to the absence of a relevant specifier position to host this subject. The second one is the propensity of NI/NG for being associated with past tense. In light of the analysis proposed here, this is not a grammatical restriction but a pragmatic outcome. That is, NI/NG could refer to present or future events; see (35) for a future event. However, the context of use consists, generally, of stories, which entail past tenses.

(35) Şir de bună mireazmă izvorând dintr-însele şi nime să nu fie necredincios
string of good smell springing.GRD from-them and nobody SUBJ not be.SUBJ.3 unbeliever

‘A string of good smells will come out of them (sa int’s bones) and nobody should behaves like a non-believer’ (Dosoftei VS {IIIr})

With respect to the diachronic tendency of NIs/NGs to fall out of use (or, if kept, count as marked in some way), there are factors working against their favour. On the one hand, a derivation with an Assert OP is arguably more complex (i.e. less economical) than its indicative equivalent, so dis-preferred by Ockham’s razor. On the other hand, these are marked typologically, as φ-features at C clash with the diachronic stabilization of the default setting for Category III in finite clauses.

6. Conclusions

This paper discusses NIs and NGs in Romance by looking at MF, AF, and OR data. That is, we focus on constructions with non-finite verb forms occurring in clauses that otherwise coordinate with declaratives that contain indicative, hence finite, verbs. We show that NIs/NGs yield exclusive declarative (versus interrogative) readings and argue that an Assert OP is mapped in Spec,CP/ForceP of these derivations thus recategorizing an otherwise non-finite derivation into a finite, realis clause. Conversely, we argue that root indicatives achieve the assertion reading in the absence of any clause typing operator.

Aside from the shared realis/assertion semantics, the paper identified a set of common syntactic properties in NIs/NGs, as follows: (i) projection to a phasal CP, and (ii) verb movement outside the vP. The first property is in line with the requirement for identity between conjoined structures, the second was argued to fall out from the need to license the Assert OP.

In addition, there were a series of distinct empirical properties illustrated in the grammar of NIs/NGs in MF, AF, and OR. These concern: (i) the level of verb movement, (ii) the presence

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22 Note that root infinitives occur outside of Romance as well, making the analysis here cross-linguistically relevant. Consider (i) from Korean where a bare infinitive form coordinates with an indicative:

(i) Minswu-ka sakwa-lul mek-[ko] Chelswu-ka nwul-ul
Minsoo-NOM apple-ACC eat.INF-and Chulsoo-NOM water-ACC

masi-n-ta
drink-PRES-DECL

‘Minsoo eats apples and Chulsoo drinks water.’ (Michael Barrie, p.c.)
versus absence of a lexicalized independent subject, and (iii) the presence versus absence of clitics. In particular, it was shown that if in MF and OR independent subjects and clitics are permissible in these constructions, they are totally ruled out in AF. Our analysis pointed out that properties (ii) and (iii) can be related to the two types of Agreement features proposed in Miyagawa (2010, 2017) as properties of the C phase head: φ-features, having to do with subject predicate agreement and δ-features having to do with topic/focus and comment/presupposition agreement. These features can remain in C or be transferred to T yielding the 4-way cross-linguistic typology introduced in (29). On a par with Spanish, MF, AF and OR are all languages of Category III (subject agreement and clitics are T-oriented). However, in infinitives and gerunds C/Fin lacks intrinsic φ-features (these are inherently non-finite). So, in NIs/NGs, φ-features and realis modality are introduced by the presence of the Assert OP and typically enable subject licensing; these φ-features remain in C and will require relevant licensing. If present, is transferred to T as expected but has no direct impact on subject lexicalization.

The Assert OP in Spec,ForceP is licensed by checking of the realis [modal] feature and φ-features present in Fin, and, by extension, the [mood] feature of T. In order to overtly highlight the presence of these features, as is required by Miyagawa’s (2010) Strong Uniformity principle, lexicalization of at least one of these heads is a must. In MF, and rarely, in OR, there is just V-to-T movement with overt checking of [mood], while the Assert OP and Fin features check via long distance Agree, and later in MF, via de lexicalization of Fin. In AF and, by default in OR, there is V-to-C head movement. However, the landing site in C differs in AF and OR, with AF evidencing V-to-Force, and OR evidencing V-to-Fin. Obligatory absence of δ coupled with obligatory V-to-Force in AF NIs points to a merged Force/Fin. In sum, parametrization with respect to long-distance versus local licensing of the Assert OP seems intimately linked to whether the CP can split or not: in MF and OR, where it can, lexicalization of Fin (or T), either as a complementizer or via head movement, is sufficient. In AF, where CP fails to split, V-to-C/Force is required.

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Abstract:

This paper discusses narrative infinitives (NIs) and narrative gerunds (NGs) in Romance by looking at Middle French (MF), Acadian French (AF) and Old Romanian (OR) data. The focus is on constructions where clauses with non-finite verb forms are coordinated with declaratives that contain indicative, hence finite, verbs. We show that NIs/NGs yield exclusive declarative (versus interrogative) readings and argue that an Assert OP (Meinunger 2004) is mapped in Spec,CP/ForceP of these derivations thus recategorizing an otherwise non-finite derivation into a
finite, *realis* clause. Conversely, we argue that root indicatives achieve the assertion reading in the absence of any clause typing operator.

The paper identifies a series of shared properties in these derivations, as follows: (i) exclusive assertion semantics; (ii) projection to a phasal CP; (iii) verb movement outside of vP. By capitalizing on the two types of Agreement properties (i.e. $\varphi$-features and $\delta$-features) and the 4-way language typology proposed by Miyagawa (2017), the paper discusses these core properties while also accounting for the empirical variation illustrated in the grammar of NIs/NGs in MF, AF, and OR (i.e. level of verb movement, presence versus absence of independent lexical subjects and clitics).

Subject: Syntax; historical syntax

Key words:
narrative infinitives; narrative gerunds; Assert(ion) OP; $\varphi$-features; $\delta$-features; feature transfer