

Infinitive wh-relatives in Romance and syncretism at the left periphery

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Contents

1	Introduction	2
2	Description of IWR	4
3	The structure of infinitive clauses	4
4	Truncation	5
4.1	Empirical support	5
4.2	Variation across Romance	6
5	Intervention	7
5.1	Rizzi's intervention effects in detail	7
5.2	Abels' revisitation	8
5.3	Haegeman's radical solution	9
6	A new proposal: syncretism in the left periphery	13
6.1	Selection	13
6.2	Syncretism	14
6.3	Prepositional relatives	15

1 Introduction

Infinitive *wh*-relatives (IWR):¹

- (1) a. Sto cercando una persona con cui discutere questa proposta. It.:
be.1SG seeking a.F person with which discuss this.F proposal
Cinque (1988, ex.28a)
'I am looking for a person with who(m) to discuss this proposal.'
- b. Busca un amigo en quien/en el que confiar. Sp.: Hernanz (1999, sec.36.3.3.1)
seek.3SG a friend in whom/in the that rely
'(S)he is looking for a friend on which to rely.'
- c. Necessitem una causa per la qual lluitar. Cat.: Alsina (2002, sec.20.2.4.2)
need.1PL a.F cause for the.F which fight
'We need a cause for which to fight.'

Question

Why is Clitic Left-Dislocation (CLLD) impossible in IWR?

- (2) a. *Sto cercando una persona con cui questa proposta discuterla. It.:
be.1SG seeking a.F person with which this.F proposal discuss.her
Bianchi (1991)
'I am looking for a person with who(m) to discuss this proposal.'
- b. *Busca un amigo al que sus secretos confiarlos. Sp.
seek.3SG a friend to.the that his/her secrets trust.them
'(S)he is looking for a friend on which to trust his/her secrets.'
- c. *Necessitem una causa per la qual als carrers lluitar-hi. Cat.
need.1PL a.F cause for the.F which at-the streets fight.INF.LOC
'We need a cause for which to fight at the streets.'

Quick (wromg) answer: nonfinite sentences have a defective left periphery Hooper and Thompson (1973, 484).

Problem

Infinitive *wh*-interrogatives are compatible with CLLD.

- (3) No sé, d'aquest pernil, on comprar-ne. Cat.: Villalba (2009)
not know.1SG of-this ham where buy-of.it

One could argue that the relative-interrogative asymmetry is an intervention effect, namely CLLD is blocking the *wh*-relative.

¹Throughout the text I follow the Leipzig Glossing Rules. I will thus use the following abbreviations: COND=conditional, F=feminine, FUT=future, LOC=locative, PL=plural, PST=past, REFL=reflexive clitic, SG=singular, SBJ=subjunctive. As for languages, I use the following abbreviations: Cat.= Catalan, Fr.= French, It.= Italian, Port.= Portuguese Rom.= Romanian, Sard.= Sardinian, Sp.= Spanish.

Problem

Finite *wh*-relatives are compatible with CLLD, just as *wh*-interrogatives.

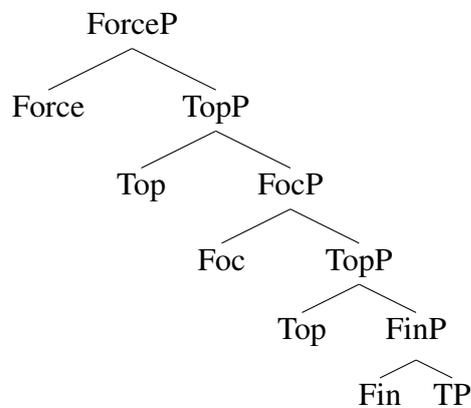
- (4) a. la persona amb qui d'aquest tema en vaig parlar Cat.: Villalba (2009)
the.F person with who of-this subject of.it PST.1SG talk
'the person that I talked to about this subject'
- b. La política a la que el máster se lo regalaron finalmente
the.F politician.F to the.F that the master to.him it give.PST.3PL finally
dimitió. Sp.
resign..PST.3SG
'The politician that they gave a master degree resigned finally.'
- c. un uomo a cui, il premio Nobel, lo daranno senz'altro It.:
a man to whom the prize Nobel it grant.FUT.3PL without-other
Rizzi (1997, 289)

'a man to whom the Nobel prize they will certainly grant'

Main goal

To investigate the extent and nature of the ban against CLLD in infinitive *wh*-relatives (IWR) and explore the consequences it raises for the commonly assumed left periphery of sentence (Rizzi, 1997):

(5)



Hypothesis

IWR display a maximally syncretic left-periphery, whereas *wh*-interrogatives have a fully-fledged one, for they selected.

4 Truncation

The *truncation hypothesis* (Rizzi, 1993, 1994; Haegeman, 2003; Benincà and Poletto, 2004; Emonds, 2004; Shlonsky and Soare, 2011) claims that in certain infinitive clauses have a limited variety of discourse oriented material (i.e. topic, focus) in their left periphery.

4.1 Empirical support

Romance CLLD is widely found in subordinate contexts, as in the following examples from Spanish (Hernanz, 2011) (see Cinque 1977, 1990 and Villalba (2009) for Italian and Catalan, respectively):

- (12) a. Juan niega que a **María** le hayan dado el premio.
 John deny_{3SG} that to Mary to.her have.SBJ.3PL given the prize
 ‘John denies that Mary was given the prize.’
 b. Pepe no se acordaba de que **esta novela** ya la había leído.
 Pepe not SELF remind.PST.3SG of that this.F novel already her have.PST.3SG
 read
 ‘Pepe did not reminded that he had already read this novel.’

In contrast, CLLD is not easily found in similar infinitive clauses:

- (13) a. *Juan niega a **María** haberle dado el premio.
 John denies to Mary have-to.her given the prize
 ‘John denies having given the prize to Mary.’
 b. *Pepe no se acordaba de **esta novela** haberla ya leído.
 Pepe not SELF remind.PST.3SG of this.F novel have-her already read
 ‘Pepe did not reminded having already read this novel.’

Also for fronting of non D-linked elements like negative polarity items:

- (14) a. *Conec bancs on **mai** no guardar-hi els diners.
 know.1SG banks where never not save.LOC the.PL money.PL
 ‘I know about banks to never put my money on.’
 b. Conec bancs on **mai** no hi podria guardar els diners.
 know.1SG banks where never not LOC could.1SG save the.PL money.PL
 ‘I know about banks which I could never put my money on.’
 (15) a. ??Conozco bancos en los que **nunca jamás** guardar mi dinero.
 know.1SG banks in the.PL that never never save my money
 ‘I know about banks to never put my money on.’
 b. Conozco bancos en los que **nunca jamás** podría guardar mi dinero.
 know.1SG banks in the.PL that never never could.1SG save my money
 ‘I know about banks which I could never put my money on.’

normal	ForceP	TopP	FocP	TopP	FinP	TP
truncated	ForceP	TopP	FocP	TopP	FinP	TP

Table 1: Radical truncation analysis.

Problem

Since truncation is lack of structure above FinP, we are forced to assume that the *wh*-relative pronoun/adverb lands in FinP in infinitive clauses, but in ForceP in finite ones.

- (16) *un lloc* [_{FinP} *on* [_{Fin'} Fin [_{TP} PRO *descansar*]]]
'a place to rest'
- (17) *un lloc* [_{ForceP} *on* [_{Force'} Force [_{TopP} [_{FocP} [_{FinP} [_{TP} *la Maria descansava*]]]]]] 'a place where Mary is resting'

A possible solution: syncretism of features.

- (18) *un lloc* [_{Fin/ForceP} *on* [_{Fin/Force'} Fin/Force [_{TP} PRO *descansar*]]]
'a place to rest'

Problem

Generalized truncation of infinitive clauses doesn't extend to infinitive *wh*-interrogatives, which do allow CLLD.

- (19) a. No sé, **d'aquest pernil**, on comprar-ne. (Cat.: Villalba 2009)
not know.1SG of-this ham where buy-of.it
'I don't know where to buy this ham.'
- b. No saben **al governador** cuándo destituirlo. Sp.: Hernanz (2011)
not know.3PL to-the governor when depose-him
'They don't know when to remove the governor.'

4.2 Variation across Romance

- (20) a. ??Non so, tuo fratello, quando chiamarlo.
not know.1SG your brother when call-him
'I do not know when to call your brother.'
- b. ??Non so, il pane, dove comprarlo.
not know.1SG the bread where buy-it
'I do not know where to buy the bread.'
- (21) (Barbosa, 2001, 44)
- a. *Je me demande à Jean, ce que lui a donné Marie.
I REFL ask to John that that to.him has given Marie
'I wonder, to John, what has given M.'
- b. *Sabes ao Pedro quando mais lhe convirá lá ir?
know.2SG to-the Pedro when more to.him suit.FUT.3SG there go
'Do you know, for Peter, when it is more convenient to go there?'

Interim conclusion

- The truncation analysis offers a simple solution for IWR, for it forbids focus or topic material in the left periphery.
- This solution cannot be extended to infinitive interrogatives, which do allow CLLD.

5 Intervention

The distribution of elements in the left periphery are derived from intervention effects (Jiménez-Fernández, 2010; Abels, 2012; Authier and Haegeman, 2012; Haegeman, 2012; Jiménez-Fernández and Miyagawa, 2014), in fact a version of Rizzi's RELATIVIZED MINIMALITY (Rizzi, 1990, 2004).

- (22) $wh_1 \dots wh \dots t_1$
- *How do you wonder *whether* John will solve the problem? Haegeman (2013)
 - ??Chi non sai *che cosa* ha fatto? Rizzi (1982)
 who not know.3SG what thing have.3SG done
 'Who don't you know what did?'
- (23) $wh\text{-}[+d\text{-linked}]_1 \dots wh \dots t_1$
- ?Which problem do you wonder **whether** John will solve? Haegeman (2013, 129)
 - ?Which problem do you wonder how to solve? Friedmann et al. (2009, 83)

5.1 Rizzi's intervention effects in detail

(Rizzi, 1982, 50–51):

- (24) a. Il solo incarico che non sapevi a chi avrebbero affidato è poi
 the only charge that not knew.1SG to whom have.SBJ.3PL entrusted is then
 finito proprio a te.
 ended exactly to you
 "The only charge that you didn't know to whom they would entrust has been
 entrusted exactly to you."
- b. Tuo fratello, a cui mi domando che storie abbiano
 your brother, to whom wonder.1SG which stories had.3PL told
 raccontato, era molto preoccupato.
 was very troubled
 "Your brother, to whom I wonder which stories they told, was very troubled."
- (25) a. *Chi ti domandi chi ha incontrato?
 who you ask.2SG who has.3SG found
 "Who do you wonder who met?"
- b. ??Chi non sai che cosa ha fatto?
 who not know.2SG which thing has.3SG done
 "Who don't you know what did?"

- D-linked *wh*-interrogative (Rizzi, 2001, ex.25a):

- (26) Quanti problemi non sai come risolvere?
 how.many.PL problems not know.2SG how solve

Possibility 1:

- (27) [_{TopP} *problemi* Top [_{FocP} *quanti problemi* Foc [_{FinP} [_{TP} *non sai come risolvere quanti problemi*]]]]

Possibility 2:

(28) [_{FocP} *quanti* Foc [_{TopP} ~~*quanti problemi*~~ Top [_{FinP} [_{TP} *non sai come risolvere ~~quanti problemi~~*]]]]

- Wh-interrogatives and CLLD:

Possibility 1:

(29) [_{TopP} *problemi* Top [_{FocP} ~~*quanti problemi*~~ Foc [_{TopP} **CLLD** [_{FinP} [_{TP} *non sai come risolvere ~~quanti problemi~~ ... CLLD*]]]]]]

Possibility 2:

(30) [_{TopP} **CLLD** Top [_{FocP} *quanti* Foc [_{TopP} ~~*quanti problemi*~~ Top [_{FinP} [_{TP} *non sai come risolvere ~~quanti problemi~~ ... CLLD*]]]]]]

- *wh*-relatives and CLLD Rizzi (1997):

Possibility 1:

(31) [_{ForceP} *a cui* [_{TopP} **CLLD** Top [_{FocP} ~~*a cui*~~ Foc [_{TopP} ~~*a cui*~~ Top [_{FinP} [_{TP} ... ~~*a cui*~~ ... **CLLD**]]]]]]]]

Possibility 2:

(32) [_{ForceP} *a cui* [_{TopP} ~~*a cui*~~ Top [_{FocP} ~~*a cui*~~ Foc [_{TopP} **CLLD** Top [_{FinP} [_{TP} ... ~~*a cui*~~ ... **CLLD**]]]]]]]]

Problem

Rizzi's system makes the wrong predictions, for it predicts much more intervention effects than needed.

5.2 Abels' revisitation

Abels (2012) solution is specifying relative pronouns as both operators and topics, so that, by the Elsewhere Condition, they will be allowed to cross over the less specific element (CLLD), but not conversely.

(33) a. un uomo a cui, **il premio Nobel**, lo daranno senz'altro
 a man to whom the prize Nobel it grant.FUT.3PL without-other
 Rizzi (1997)

'a man to whom the Nobel prize they will certainly grant'

b. *A Gianni, ti parleró solo delle persone che senz'altro gli
 to Gianni to.you talk.FUT.1SG only about people that without-other to.him
 daranno il premio Nobel. Abels (2012, ex.8b)
 give.FUT.3PL the Nobel Prize

Problem

- This prediction is wrong for Spanish and Catalan relatives regardless of tense, and for Romance IWR across the board
- Assuming a topic-like nature for *wh*-relatives in IWR is counterintuitive, for they are typically associated with non-specific indefinite antecedents, and we know that topics are preferably definite and specific NPs (Prince, 1992).

5.3 Haegeman's radical solution

Haegeman (2013, ch. 4) solution: assume, with Cinque (1990), that Romance CLLD is base-generated, so it *never* creates intervention effects.

- (34) a. ?Non so a chi pensi che, **queste cose**, le dovremmo dire.
not know.1SG to whom think.2SG that these things DAT.3PL should.2PL say
It.: Rizzi (2004, ex.27)

'I don't know to whom you think that these things we should say them.'

- b. J'aimerais savoir à qui **ton texte**, tu comptes le
I-like.COND.1SG know to whom your text you count.2SG it show
montrer d'abord. Fr.: Haegeman (2013, 57)
first

'I would like to know to whom you are thinking of showing your text first.'

- (35) a. ?Ecco lo studente a cui, **il tuo libro**, lo darò. It.:
this-is the student to whom, the your book it give.FUT.1SG
Haegeman (2013, 58)

'This is the student to whom I'll give your book.'

- b. Voici l'étudiant à qui **ton livre** je le donnerai. Fr.:
this.is the-student to whom your book I it give.FUT.1SG
Haegeman (2013, 58)

'This is the student to whom I'll give your book.'

Problem

CLLD DOES involve movement

- sensitivity to strong islands (see Cinque 1977, 408, López 2009, par. 6.2 and Villalba 2009, ch.2; cf. De Cat 2007 for French; beyond Romance, see (Iatridou, 1995, 18), (Grohmann and Etxepare, 2003, 143), (Anagnostopoulou, 1997, 156-7), Chomsky and Lasnik 1977, 91, Postal (1994, 175)):

- (36) a. *A Giorgio, ieri ho conosciuto la ragazza che gli ha scritto
to Giorgio yesterday have.1SG known the.F girl that to.him has written
quelle insolenze.
those insolent.words
'To Giorgio, yesterday I met the girl who wrote those insolent words to him.'

- b. *A Giorgio, chi può credere alla calunnia che gli abbiano dato
to Giorgio who can.3SG believe to-the slander that to.him have.PST.3PL given
dei soldi?
of.the money
'To Giorgio, who can believe the slander that they gave him money?'
- c. *Di quel libro, mi son seduto in poltrona e ne ho letta una meta,
of that book REFL be.1SG sit in armchair and of.it have.1SG read a half
ieri.
yesterday
'Of that book, I sat in the armchair and read half of it yesterday.'
- d. *A Giorgio, che tu gli abbia scritto vuol dire che sei
to Giorgio that you to.him have.PST.2SG written want.3SG say that be.2SG
ancora innamorata.
still in.love
'To Giorgio, that you wrote to him means that you're still in love.'

- CLLD can easily skip *wh*-islands, just as happens with *wh*-movement:

- (37) a. A Mara, no recuerdo quién preguntó [(que) dónde la había
to Mara not remember.1SG who asked that where acc.f.SG have.PST.1SG
visto yo]. Suñer (2006)
seen I
- b. Dinero, te pregunta [(que) por qué no tiene]. Rivero (1980)
money DAT.2SG ask.3SG that for what not have.3SG

López (2009, 223):

- (38) a. Bon estudiant, el Joan diu que el Carles ho pot ser.
good student the Joan says that the Carles so can.3SG be
'A good student, Joan says that Carles can be one.'
- b. ??Bon estudiant, em pregunto quan ho serà.
good student REFL ask.1SG when so be.FUT.3SG
'A good student, I wonder when he will be one.'
- (39) a. D'històries, el Joan n'explicarà el diumenge.
of-stories the Joan ot.it-explain.FUT.3SG the Sunday
'Stories, Joan will explain on Sunday.'
- b. ??D'històries, em pregunto com n'explicarà el diumenge.
of-stories DAT.1SG ask.1SG how of.it-explain.FUT.3SG the Sunday
'Stories, I wonder how he will explain on Sunday.'

Problem

CLLD DOES show intervention effects

- topic islands (Rochemont 1989, ex. 19,22, Lasnik and Saito 1992; Culicover 1991, 2013):

- (40) a. *¿A quién crees que el premio se lo dieron? Sp.: Goodall (2001, 201)
to whom think.2SG that the prize to.him it gave
'Who(m) do you think that they gave the prize to?'

- b. *Che cosa pensi che a **Luigi**, gli regalerai? It.:
 what thing think.2SG that to Luigi to.him give.FUT.2SG
 Frascarelli (2000, 153)
 ‘What do you think that they will give to Luigi?’
- c. *Amb qui creus que, **de Cuba**, en parla Chomsky? Cat.:
 with who(m) believe.2SG that about Cuba of.it talk.3SG Chomsky
 Villalba (2009, ch.4) (see also Sheehan 2016, 348)
 ‘With whom do you believe that Chomsky talks about Cuba?’
- d. *A quem achas que o prémio o deram no ano passado?
 to whom think.2SG that the prize CL.ACC gave in.the last year
 European Portuguese: Sheehan (2016, 348)
- e. ??Quem (que) a Ana, ela convidou pra festa? Brazilian Portuguese:
 who that the Ana she invited t to-the party
 Quarezemin and Cardinaletti (2017, 389)

- (41) a. *I asked what, to Lee, Robin gave.
 b. *Lee forgot which dishes, on the table, you are going to put.
 c. *Robin knows where, the birdseed, you are going to put.

Cf. Haegeman (2013) evidence:

- (42) a. ?Non so come pensi che, a **Gianni**, gli dovremmo parlare.
 not know.1SG how think.2SG that to Gianni to.him must.3PL talk
 Rizzi (2004, 232)
 ‘I don’t know how you think that, to Gianni, we should talk to him.’
- b. ?Non so a chi pensi che, **queste cose**, le dovremmo dire.
 not know.1SG to who think.2SG that these.f things ACC.3PL.F must.3PL say
 Rizzi (2004, 232)
 ‘I don’t know to whom you think that, these things, we should say them.’
- (43) a. J’aimerais savoir à qui **ton texte**, tu comptes le montrer d’abord.
 I-like.COND.1SG know to whom your text you count.2SG it show first
 ‘I would like to know to whom you are thinking of showing your text first.’
- b. Voici l’étudiant à qui **ton livre** je le donnerai.
 this.is the-student to whom your book I it give.FUT.1SG
 ‘This is the student to whom I’ll give your book.’

The examples always involve (i) indirect interrogatives, and (ii) local CLLD.

- Cf. direct interrogatives:

- (44) (Domani,) che cosa (*a Gianni,) gli dovremmo dire?
 tomorrow which thing to Gianni to.him should.1PL say
 ‘Tomorrow, what should we say to Gianni?’

- Cf. nonlocal CLLD:

- (45) a. ??El lingüista al que reconozco que **el libro** se lo robé
 the linguist to-the that acknowledge.1SG that the book to.him it steal.PST.1SG
 es Coseriu.
 is Coseriu
 'The linguist which I acknowledge that I stole the book is Coseriu.'
- b. ??¿A quién admitió que **el libro** se lo robó?
 to who(m) admit.PST.3SG that the book to.him it steal.PST.3SG?
 'Who did (s)he admit that (s)he stole the book?'

- The two interveners belong to different clauses:

- (46) a. *¿De quién_i admites que **al profesor**_k le denunciaste _{t_k} que
 of who admit.2SG that to-the teacher to.him denounce.PST.3SG that
 se burlaba _{t_i}?
 REFL mock.PST.3SG
 'Of who(m) do you admit that you denounced to the teacher that (s)he mocked?'
- b. *La persona a quien **a Juan** le ordenaron que matara era
 the person to who to Juan to.him order.PST.1SG that kill.sbj.3SG be.PST.3SG
 un espía ruso.
 spy Russian

- CLLD+wh-islands:

- (47) a. *¿A quien no sabéis **el libro** cuándo se lo dieron?
 to who not know.3PL the book when to.him it give.PST.3pl
- b. *La persona a quien no sabía **quién el libro** se lo dio
 the person to who not know.PST.3SG who the book to.him it give.PST.3SG
 era un espía ruso.
 be.PST.3SG a spy Russian

- local vs. nonlocal CLLD and weak crossover (WCO):

- (48) a. A cada niño_i, su_i madre lo_i acompañará el primer día de escuela.
 to each child his mother him accompany.FUT.3SG the first day of school
- b. *A cada niño_i, su_i madre piensa que María lo_i acompañará el primer
 to each child his mother thinks that María him accompany.FUT.3SG the first
 día de escuela.
 day of school

Conclusion

CLLD displays intervention effects in Spanish and Catalan, which supports a movement approach to this construction.

Intervention analyses: Recap

Even though CLLD creates intervention effects, the asymmetry between IWR and finite relatives regarding CLLD cannot be explained as an intervention effect.

- (49) a. ?Ecco lo studente a cui, **il tuo libro**, lo darò. It.:
 this-is the student to whom, the your book it give.FUT.1SG
 Haegeman (2013, 58)
- ‘This is the student to whom I’ll give your book.’
- b. *Sto cercando una persona con cui **questa proposta** discuterla. It.:
 be.1SG seeking a.F person with which this.F proposal discuss-her
 Bianchi (1991)
- ‘I am looking for a person with who(m) to discuss this proposal.’

6 A new proposal: syncretism in the left periphery

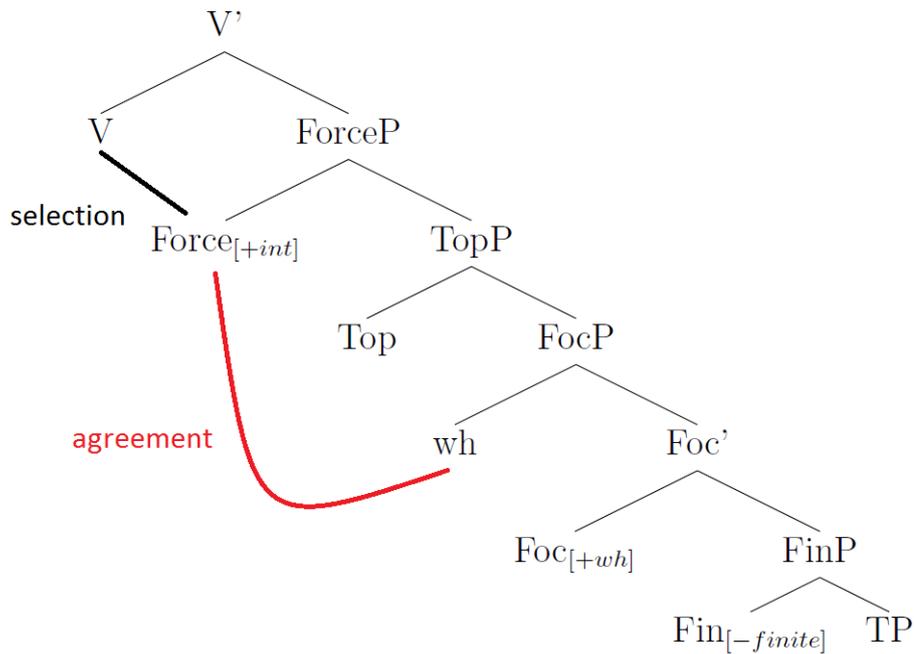
We cannot assume a unified truncation analysis for both relatives *and* interrogatives.

6.1 Selection

In infinitive *wh*-interrogatives **the role of Force is crucial for linking the [+interrogative] feature of the sentence with the corresponding selectional requirements of the higher governing predicate** (see also Benincà and Poletto (2004); Grewendorf (2009); Haegeman and Hill (2013) for similar ideas, and Bresnan (1970); Chomsky and Lasnik (1977); Grimshaw (1979) for a initial discussion of the issue of complementizer selection in the context of English infinitive relatives).

- the [+interrogative] Force head is locally selected by the higher verb,
- whereas the interrogative *wh*-element landing lower in the CP-area (here in IntP) gets licensed by Agree through the standard probe-goal procedure (Chomsky, 2000, 2001).

(50)



Relative clauses are not selected, so the crucial mediating role of Force is less clear at this point, regardless of your favorite analysis of relatives (see Borsley 1997; Bianchi 1999; Hulsey and Sauerland 2006). Hence, if truncation in IWR is not constrained by selectional issues, and TopP is linked to the presence of Force, a radical truncation analysis is plausible, as represented in Table 2.

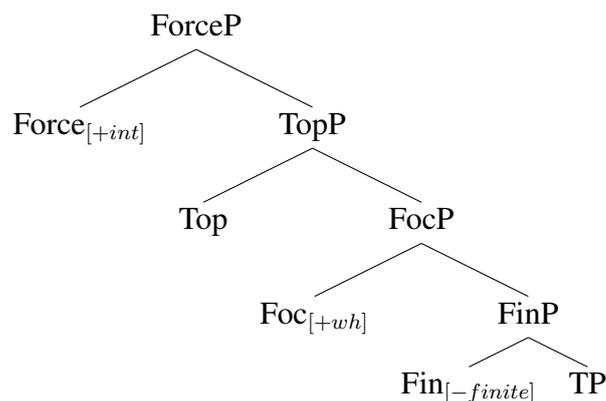
	ForceP	TopP	FocP	TopP	FinP	TP
infinitive interrogative		CLLD	wh			
IWR	-	-	-	-	wh	

Table 2: IWR and infinitive interrogatives in Catalan and Spanish under the radical truncation analysis.

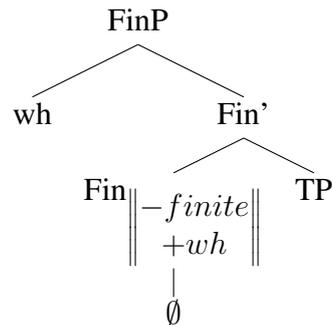
6.2 Syncretism

The projection of the features involved in the CP-domain allows several degrees of syncretism (Zubizarreta 1998, 100, Giorgi and Pianesi 1996; Bianchi 1999:

(51) wh-interrogative



(52) IWR



6.3 Prepositional relatives

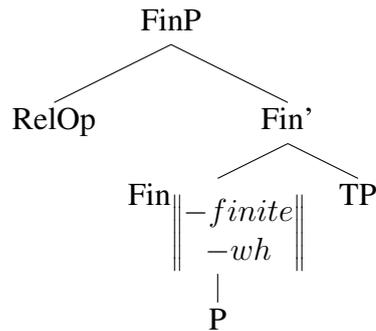
- (53) a. Les livres **à** lire sont sur la table.
 the.PL books to read be.3PL on the.F table
 ‘The books to read are on the table.’ Fr.: Giurgea and Soare (2010, 192)
- b. Cărtile **de** citit sînt pe măsă.
 books-the.PL by read.SUP be.3PL on table
 ‘The books to read are on the table.’ Rom.: Giurgea and Soare (2010, 192)
- c. Cerco un libro **da** leggere.
 seek.1SG a book by read
 ‘I am looking for a book to read.’ It.: Cinque (1988, ex.28a)
- d. O peixe **para** grelhar está aqui.
 the fish for grill.INF is here
 ‘The fish to grill is over here.’ European Port.: Duarte et al. (2015, ex.1a)
- (54) a. Encara no té un model **per** imitar.
 still not have.3SG a model for imitate
 ‘(S)he still lacks a model to imitate.’ Cat. Alsina (2002, sec.20.2.4.3)
- b. Las tierras por sembrar son difíciles de vender.
 the.F.PL lands for plant are difficult.PL of sell
 ‘The lands to be planted are difficult to sell.’ Sp. Hernanz (1999, 36.3.3.3)
- (55) Busco libros que leer.
 look.for.1SG books that read
 ‘I look for some books to read.’ Sp. Táboas (1995, ex.9a)
- (56) No’isco de b’andare (o nono).
 not-know.1SG of LOC-go or not
 ‘I do not know whether to go there (or not).’ Sard.: Jones (1996, 291)

Cf. *wh*-interrogatives:

- (57) a. En Pere no sap si fer-ho.
 the Pere not knows whether do-it
 ‘Peter doesn’t know whether to do it.’ Cat. Rigau (1984, 251)
- b. Dudaba si hacer el cordero al horno.
 doubt.PST.3SG whether do the lamb at.the oven
 ‘(S)he doubted whether (s)he would cook the lamb in the oven.’ Sp.
- c. Gianni non sa se andare al cinema.
 John not knows whether go to-the cinema
 ‘John doesn’t know whether to go to the cinema.’ It. Kayne (2000, 53)

- proposal for prepositional infinitive relatives:

(58)



- (59) a. Jean a essaye **de** chanter. Fr.: (Kayne, 2000, 282)
John has tried of sing
'John tried to sing.'
- b. Gianni ha tentato **di** cantare. It.: (Kayne, 2000, 282)
John has tried of sing
- c. En Joan ha intentat **de** cantar. Cat.
the John has tried of sing
- d. Credo **de** ti connóskere. Sard.: Jones (1996, 264)
believe.1SG of you know
'I believe that I know you.'

Conclusions

1. The ban against CLLD in IWR cannot be explained in terms of intervention effects, but rather must be analyzed as a case of truncation in infinitive contexts.
2. As far as CLLD is a case of movement, intervention approaches could not explain why IWR contrasted with their finite counterparts.
3. Truncation cannot be extended to infinitive *wh*-interrogatives, which do allowed CLLD.
4. The contrast between IWR and interrogatives has been derived from the necessity of projecting ForceP in the latter, which are selected by a higher predicate.
5. This crucial difference between interrogatives and relatives is consistent with the existence of specialized prepositional complementizers for the latter but not for the former.

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