Sportiche, Dominique (2013). French reflexive se: Binding and Merge locality. In Aboh, E, Maria Teresa Guasti and Ian Roberts, Celebrating Locality. Oxford: Oxford University Press, 136

Tippets, Ian (2011). Differential Object Marking: Quantitative evidence for underlying hierarchical constraints across Spanish dialects. In Luis A. Ortiz-López MA: Cascadilla Proceedings Project, 107-117. (ed.), Selected Proceedings of the 13th Hispanic Linguistics Symposium. Somer ville

Torrego Salcedo, Esther. (1999). El complemento directo preposicional. In Ignacio Torrego, Esther. (1998). The dependencies of objects. Cambridge, MA: MIT Press. y modales. Madrid: Espasa Calpe, 1779–1805 2: Las construcciones sintácticas fundamentales. Relaciones temporales, aspectuales Bosque and V. Demonte (eds.), Gramática descriptiva de la lengua española, Vol.

Torrego, Esther (2008). Revisiting impersonal se. In X. Artiagoitia and J. Lakarra Filología Vasca (ASJU Gasteiz), 785-792. (eds.), Gramatika Jaietan: Patxi Goena garen omenez? Anuario del Seminario de

Woolford, E. (2006). Case-agreement mismatches. In C. Boeckx (ed.), Agreement Systems. Amsterdam; John Benjamins, 317-339.

CHAPTER 11

of WH-in-situ in Brazilian Portuguese Some syntactic and pragmatic aspects

AND ELAINE GROLLA MARIA CRISTINA FIGUEIREDO SILVA

11.1 INTRODUCTION: OUR GOALS

in the languages displaying them. One of the curious properties found is in which they are obligatory. Most of the works mentioning that fact are confor example), and if grammars seek more economical derivations, WH-in-situ in these grammars. If movement is a costly operation (as opposed to merge, appearing either in situ or moved. However, one would not expect optionality that in some languages there seems to be optionality, with the WH element cerned with WH-in-situ in islands (cf. Cheng 2009; Reglero and Ticio 2013) unnoticed that even in languages with optional WH-in-situ, there are cases minimalist theories. On the other hand, as far as we know, it has gone almost no optionality possible. Therefore, these languages pose a challenge to current constructions should always be the preferred strategy over moved WH, with The study of WH-in-situ constructions has uncovered some interesting facts in BP. Section 11.4 discusses an analysis for the obligatory WH-in-situ cases in scrutiny is Brazilian Portuguese (BP). The chapter is organized as follows. In situ in a language where in general WH-in-situ is optional. The language under In this chapter we explore this type of data, namely cases of obligatory WH-inexamines the pragmatic conditions (if any) under which WH-in-situ is allowed which WH-in-situ is optional, forbidden, and obligatory in BP. Section 11.3 section 11.2, we present a detailed description of the syntactic conditions in BP. Section 11.5 includes our final remarks.

II.2 DAIA

17.2.1 WH-in-situ and moved WH

Classical approaches to WH-in-situ (cf. Cheng 2009, for a comprehensive review) assume that there are languages in which WH-in-situ is the only way to ask questions, as in Japanese and Chinese, and there are languages in which it alternates with moved WHs, as in French and BP. In other languages, such as English, questions with WH-in-situ are restricted to echo and multiple questions.

In BP, questions with the WH-in-situ are not restricted to echo-questions. It is an alternative way of asking real, information-seeking questions. Comparing it to a closely related language, European Portuguese (EP), we can observe interesting differences. According to Duarte (2000), EP licenses WH-in-situ in matrix and embedded clauses, but it is restricted to echo-questions. Lopes-Rossi (1996), in a historical study comparing WH-questions in EP and BP, found only 2.8 percent of WH-in-situ questions in her data from twentieth-century EP whereas in BP she found 32.4 percent for the same period, as detailed below.

The reason for this difference between the two languages can be traced back to the nineteenth century. Lopes-Rossi (1996) observes that in the nineteenth century, WH-questions in BP followed the word order WH-verb-subject, which is still possible in BP today. In the twentieth century, this word order was replaced by two other word orders in BP: WH-subject-verb and WH-in-situ.²

- 1. Cf. Section 11.3 for contexts in which some English WH-in-situ questions are grammatical even if their interpretation is not echo; neither are they instances of multiple WH-questions. In any event, for all the languages considered here, we leave aside cases of questions with more than one WH element, such as 'who bought what?' However, it must be noted that multiple WH-questions in BP, although perfectly grammatical in simple sentences, are completely excluded in islands, a remarkable fact that deserves a separate study.
- 2. The WH-subject-verb order is shown by Lopes-Rossi's (1996; 64) examples reproduced here (the information in parentheses relates to the corpus from which the sentences were taken):
- (i) O que ela te disse, Luiza? (Eiró, first half of the nineteenth century)
 What she you told, Luiza?
 'What did she tell you, Luiza?'
- (ii) Onde você estuda? Where you study? 'Where do you go to school?'

Wh-in-situ:

(iii) Brigou por quê?
Fought why?
'Why did you fight?'

(Azevedo, second half of the nineteenth century)

The WH-verb-subject word order decreases from around 45 percent in the nineteenth century to 12.5 percent in the twentieth century. Conversely, the production rates of both WH-subject-verb and WH-in-situ increased over time. In the first half of the nineteenth century, the rate of WH-subject-verb was 1.4 percent. In the second half of the twentieth century, it increased to 16 percent. For WH-in-situ, it went from 0 percent to 32.4 percent in the same periods.

Thus, the types of WH-questions found in contemporary BP have become quite different from the picture found in EP. In order to start exploring the types of questions found in BP, we first present the grammatical contexts in which the alternation between moved WH and WH-in-situ in BP can be seen.

A. Matrix clauses with a null Co:

- (1) a. Oque você viu?
 what you saw
 'What did you see?'
- b. Você viu <u>o quê?</u> you saw what

B. Complement tensed clauses with a null matrix $C^{0.3}$

- (2) a. Oque você disse que ela viu? what you said that she saw 'What did you say that she saw?'
- b. Você disse que ela viu o quê? you said that she saw what

C. Root infinitives as matrix interrogatives

- (3) a. O que (*que) fazer numa situação dessa?
 what to do in a situation of-this?
 'What to do in a situation like this?'
- b. Fazer <u>o que</u> numa situação dessa? to do what in a situation of-this?

(TV)

^{3.} As we will see in section 11.2.2, C^0 can have an overt complementizer in WH-questions. When it is null, the WH can remain in situ. However, when it is overt, the WH must move to Spec CP.

D. Wh-interrogatives embedded in indirect questions:

- (4) a. Oque a Maria perguntou se o João comeu?

 what Mary asked if John ate?

 'What is the thing such that Mary asked if John has eaten this thing?'
- b. A Maria perguntou se o João comeu <u>o quê?</u>
 Mary asked if John ate what?

E. Null subject sentences in which the null subject is interpreted as a generic noun phrase:

- (5) a. Onde compra caneta (aqui perto)? where buys pen (here near)? 'Where can pens be bought (near hear)?
- b. Compra caneta onde (aqui perto)?
 buys pen where (here near)?

In all these contexts, it seems that the choice between moved or in-situ WHs can be made on the basis of discourse factors.

11.2.2 Obligatory WH-movement

Nevertheless, there are grammatical contexts in which even the languages allowing optionality do not admit WH-in-situ. In BP, these contexts are:

- A. Matrix or embedded clauses with an overt matrix C⁰ (cf. Mioto 1994):
- (6) a. Oque que (a Maria disse que) você viu? what that (the Mary said that) you saw 'What did (Mary say that) you see/saw?'
- b. *Que (a Maria disse que) você viu <u>o quê</u>?
 que (the Mary said that) you saw what

. Cleft interrogative sentences:

- (7) a. Oque é que você viu?

 what is that you saw

 'What is it that you saw?'
- b. É <u>oque</u> que você viu?

 Is what that you saw.

 'What is it that you saw?'

- c. *É que você viu <u>o quê?</u> is that you saw what
- C. Embedded interrogative WH clauses:
- a. Ele perguntou o que ((é) que) a Maria viu. he asked what ((is) that) Mary saw 'He asked what Mary saw.'

8

- b. *Ele perguntou ((é) que) a Maria viu <u>o quê</u> he asked ((is) that) Mary saw what
- D. Questions with inherently non-D-linked elements:
- (9) a Que diabo (que) você comeu?
 what devil (that) you ate
 'What the hell did you eat?'
- you ate what devil

you ate what devil

In all these contexts, only moved WHs are grammatical. In some cases, the selectional properties of the C head are responsible for obligatory WH-movement.

11.2.3 Obligatory WH-in-situ

In some languages allowing optionality there are contexts in which only the WH-in-situ construction is possible. In BP, the relevant contexts are:

- A. Strong islands (as relative clauses or adjunct clauses) (cf. Négrão 2000):
- (10) a. *Que livro (que) a Maria admira [o autor que escreveu]? which book (that) Mary admires the author who wrote
- b. ?A Maria admira [o autor que escreveu que livro]?

 Mary admires the author who wrote which book

 Which is the book x such that Mary admires the author who wrote x?
- l) a. *Oque você vai no quarto [fazert]? what you go in-the bedroom [to-do]
- b. Você vai no quarto [fazer <u>o quel?</u>
 you go in-the bedroom [to-do what]
 'You are going to your room to do what?'

verb, responsible for the future tense interpretation), as shown in (12): complement of the matrix verb (in which case, ir 'go' is in fact an auxiliary Notice that, in the case of (11), extraction is possible if the sentence is the

- O que você vai fazer t no quarto? 'What will you do t in the bedroom?'
- B. Clauses with deitic or anaphoric definite null subject:

and child. The child says "I said \dots I said \dots " and then the mother asks (13a). Example (13b) shows that the question with moved WH is impossible: Question (13a) was uttered in the context of a dialogue between mother

- (13) a. Falou <u>o quê</u>? said what?
- *O que falou? 'What did you say?' what said?

where the WH could be moved to:4 C. Structures in which apparently there is no sentential functional projection

- (14) a. O scratch dodoi de of whom? quem?
- *De of whom the quem 0 scratch? dodói?
- clauses are islands in Portuguese, as revealed by the dubious status of the sentences 4. We do not commit ourselves to any particular analysis to the examples in (14) and (15). It may be the case that we are dealing with a DP or an AdvP, but it can also be the case that we are facing a small clause structure. However, it is not clear that small
- ?Você you acha find the Mary in love Maria apaixonada por with quem? whom?
- Ξ ?* Por 'With whom do you think Mary is in love?' with whom you quem você acha a find the Mary Maria in love? apaixonada?
- (iii) considera consider the a Mary Maria apaixonada in love por with quem? whom?
- (iv) With whom do you consider Mary in love? with whom quem you você considera consider Mary a Maria apaixonada? in love?

(15)

a

Junto

com

together with

whom? quem?

*Com with whom together? quem junto?

tor. Example (13) illustrates a constraint particular to BP. Cases like (14) and containing the WH has its Spec CP position already occupied by some operaof strong islands, it is clear that movement is not allowed because the sentence (15), which are supposed to be examples of elliptical structures, have yet to be In all these grammatical contexts, WH-movement is forbidden. In the case

WH-in-situ constructions in BP, a problem discussed in section 11.4.In any event, it is necessary to find the means to interpret the obligatory

11.3 PRAGMATIC CONSTRAINTS

adults and children, we conclude that none of them is able to completely capa somewhat similar proposal made by DeRoma (2011). Based on data from the licensing of WH-in-situ. We discuss Pires and Taylor's (2007) proposal and In this section we discuss the pragmatic conditions that might be involved in DeRoma's proposal in order to better account for the data. ture the restrictions on WH-in-situ in BP. We then propose a modification of

about something already mentioned, as the following examples illustrate: tion about something mentioned immediately prior or for more information eral, WH-in-situ is possible when there are requests for specific informacontexts where WH-in-situ is possible, both in BP and in English. In genconditions can WH elements remain in situ. They list a series of pragmatic Pires and Taylor (2007) argue that only under specific discourse-pragmatic

- (16)A: I made desserts.
- You made [what kind of desserts]?
- Você fez lque tipo de sobremesa]?

Ÿ B

- (17)A: I made many different kinds of desserts.
- So, you made [how many cookies]?
- Você [quantos biscoitos]

structures are not enough or suitable to allow WH-movement. The exact structure out of small clauses is ungrammatical, but example (iv), with the verb 'considerar remains the same: the projections of functional categories supposedly present in these (consider), sounds better. Whatever the best analysis turns out to be, our point here involved in these examples is a matter for future research Example (ii), with the verb 'achar' (think), seems to indicate that WH-movement

tain properties of the extralinguistic context make the question felicitous: The authors claim that WH-in-situ interrogatives are also possible if cer-

- (18)B sees his friend reading something
- You're reading what?
- Você (es)tá lendo o-quê?

quoted by Pires and Taylor 2007: 5). part of the Common Ground (CG), a concept found in Stalnaker (1978, 2002 WH-in-situ questions are special in that the set of possible answers to them is discourse-pragmatic conditions in English and in BP. The different types of For these authors, WH-in-situ in single WH-questions requires specific

given in the discourse or in the extralinguistic context and that is shared (or assumed by the speaker to be shared) by speaker and hearer. Pires and Taylor information being requested is expected (by the speaker) to be part of the CG (2007) propose that WH-in-situ in English and BP will be possible when the Common Ground can be defined as information that was previously

following sentences are infelicitous in the context: claim that if WH-in-situ has to satisfy the CG conditions noted previously, the it is syntactically possible, is not freely optional in Portuguese. The authors One prediction of this analysis is that WH-in-situ, in the contexts in which

- You approach a colleague at work and ask, out of the blue:
- #Você conhece quem em São Paulo?
- #You know who Sao Paolo?

and Taylor's hypothesis by bringing in data from a sociolinguistic study and that only moved WH-questions are possible. In what follows, we discuss Pires from an experiment conducted with adults and children. In completely "out-of-the-blue" contexts, Pires and Taylor (2007) argue

sifies these contexts into three types: the contexts where WH-in-situ questions are favored and disfavored. She clas-Oushiro (2010), in a sociolinguistic study with 53 interviews, investigates

- (20) universal presupposition contexts
- cultural presupposition contexts
- (iii) discourse presupposition contexts

rally shared by all speakers, and they cannot be negated. Examples like the following illustrate this (Oushiro 2010: 635) Universal presuppositions are the ones that are always true, being natu-

- (21) a. and you were born when 'When were you born?' você nasceu quando?
- and you are living 'Where do you live now?' Cê tá morando onde where now agora?

edge usually shared by almost everyone: Cultural presuppositions, although they can be negated, are considered knowl-

- (22) a and she works 'With what does she work?' ela trabalha com o quê? with what
- Ġ, Cê votou em quem pra presidente... na última eleição? you voted in who for president ... on the last election 'For whom did you vote in the last presidential election?'

assumed that most people work and vote (especially in Brazil, where it is obligatory to vote) Although not everyone works and not everyone votes, it can be usually

(adapted from Oushiro 2011: 82 [irrelevant parts omitted]): Finally, discourse presuppositions are the ones introduced by the discourse

- (23)A e você sabia que hoje em dia "a gente" é considerado um proa personal pronoun, just like "I you they"? nome pessoal do mesmo jeito que "eu você tu eles"? 'And did you know that "a gente" [informal form of 'we'] is considered
- W
- 'I didn't know.
- mas é considerado aonde? But it is considered [a pronoun] where?

expression 'a gente' is considered a regular pronoun) is established as a com-If it were not, B's question would be anomalous. mon ground between speakers A and B after speaker A puts it into discourse Here we can see that the presupposition of the question (the fact that the

a cultural presupposition, and 21 percent have a discourse presupposition. In terms of relative weight, the figures are .71 for universal, .55 for cultural, and pus, 50.6 percent of them have a universal presupposition, 35.4 percent have Oushiro reports that out of a total of 199 in-situ-WH-questions in her cor-

presupposition contexts and disfavored in discourse presupposition contexts. .38 for discourse presuppositions. Therefore WH-in-situ is favored in universal

children were guided in the questions they were supposed to ask, as illustrated were two parts to the experiment. Part I was "controlled" in the sense that children talked to a puppet and were encouraged to ask him questions. There between 3.8 and 6.5 years of age. The experiment was an elicitation task where in-situ, arrive at similar results. They interviewed 10 adults and 18 children Grolla and Alvarez (2010), in a study concerning the acquisition of WH

Background: Fiona scolded Shrek for not taking his shower. Now she's not where he doesn't know. Can you ask her?5 Experimenter: Shrek wants to know where Fiona went. She went some talking to him. The child is asked to help Shrek by asking questions to Fiona

Expected questions: Aonde você foi? aonde? (You went where?) (Where did you go?)

Fiona kept it somewhere and he wants you to ask her. Experimenter: Shrek is hungry, but he doesn't know where the food is

Expected questions: Onde você guardou a comida? Você guardou a comida onde? (Where did you store the food?) (You stored the food where?)

child asked a question, he or she had all this CG linguistically established that she bought food and stored it somewhere in the kitchen. So, when the updated the CG, with information about Fiona's leaving the house or the fact (which we henceforth call "discourse CG"). Observe that, in these cases, the experimenter introduced a sentence that

asks questions without a discourse CG established that he or she can ask him anything. No information is introduced; the child to play with her friends and Shrek is left alone with the child. He tells the child In the second, noncontrolled part of the experiment, Fiona leaves the room

linguistically provided of WH-in-situ in the second part of experiment, as in this case no CG was contained clear discourse CG. Conversely, they expected to find fewer cases expected to find more WH-in-situ in the first part of the experiment, which Following Pires and Taylor's (2007) hypothesis, Grolla and Alvarez (2010)

in universal presuppositions contexts. In these cases, the presupposition was noncontrolled part, there were 77 moved WH-questions and 6 WH-in-situ part, there were 79 WH-questions with moved WH and no WH-in-situ. In the moved WH-questions and 4 WH-in-situ questions. Similar results were found controlled part of the experiment, all 51 questions produced were with the was enough to introduce the CG, as shown in example (25c). It is worth noticin situations where no discourse was introduced but the nonlinguistic context sally shared by speakers (cf. (25a) and (25b)). WH-in-situ was also produced not introduced by discourse but was implicit, as part of the knowledge univerquestions. The results show that WH-in-situ questions were mainly produced for the children: 162 WH-questions were produced in total. In the controlled WH moved to the left periphery. In the noncontrolled part, there were 69 ing that no out-of-the-blue questions were produced. In the adults' results, a total of 124 WH-questions were produced. In the

Universal presupposition contexts:

- Vocês 'What kind of food do you eat?' comem <u>o que</u> de comida? eat what as food
- 9 Você escreve com 'With what hand do you write? You write with what que hand mão?

with names written on them and asks: Nonlinguistic context (situation): Child takes a piece of paper

Aqui Here is written what 'What is written here?' tá. escrito o quê?

experiment, both by adults and children, where no discourse CG was prohypothesis. WH-in-situ was produced only in the noncontrolled part of the vided. In the contexts where a clear indication of the possible answers to the hypothesis is not enough to capture the distribution of WH-in-situ in BP. was produced by children and adults. This suggests that Pires and Taylor's question was linguistically provided (the controlled part), no WH-in-situ These results are surprising, if we consider Pires and Taylor's (2007)

situ was produced. which were not linguistically provided. When clear discourse presuppositions were provided, such as in the controlled part of the experiment, no WH-inilar: most of the WH-in-situ questions involved universal presuppositions, Note that Oushiro's (2010) and Grolla and Alvarez's (2010) results are sim-

be modified in such a way that, for a WH-in-situ to be possible, what needs to DeRoma (2011) suggests that Pires and Taylor's (2010) hypothesis should

ing what the experimenter had said. rest of the question was not provided, in order to prevent the child from simply repeat-The lead-in sentence offered by the experimenter stopped at "can you ask her?" The

be in the CG is not the possible answers but the presupposition of the non-WH portion of the question itself. So, for a question like "you eat what as food?", for example, it must be established that you eat food. This is precisely the context provided in the controlled part of the experiment in Grolla and Alvarez's (2010) study. For example, in one trial, it is said that Fiona stored the food somewhere but Shrek does not know the place. This context provides exactly the presupposition of the non-WH portion of the question, a context in which DeRoma would predict WH-in-situ to be favored. Yet no questions of this type were produced.

However, comparing Pires and Taylor's (2010) and DeRoma's (2011) proposals, we believe that DeRoma's analysis seems more suitable to account for the data. In universal presupposition contexts (which favors WH-in-situ), the context (and not the linguistic discourse) provides the non-WH portion of the question. So, in order to account for the data, we propose a modification of DeRoma's hypothesis as follows: WH-in-situ is more likely to occur when the presupposition of the non-WH portion of the question is encoded in the nonlinguistic CG.

The results of Grolla and Alvarez's (2010) study indicate that the use of WH-in-situ is more frequent when the CG is not linguistically provided in the discourse but other contextual items not mentioned in the utterance prior to the question are included. Therefore, it seems necessary to make the definition of CG sharper: the information shared by all individuals of a community, for example, must be taken into consideration, and not just the linguistic discourse. Given that presuppositions come not only from the context but also from cultural and universal knowledge shared by the speakers, it seems unreasonable to think of both types of questions—with moved WH and with WH-in-situ—without a CG, that is, as completely out of the blue. Hence, questions (be it with moved WH or WH-in-situ) completely out of the blue are infelicitous. The following example, cited by Pires and Taylor (2007) as infelicitous as a WH-in-situ question, is also infelicitous as a moved WH-question:

(26) You approach a colleague at work and ask, out of the blue:

Você conhece quem em São Paulo?
You know who in Sao Paolo

B: # Quem você conhece em São Paulo?
Who you know in Sao Paolo

'Who do you know in Sao Paolo?'

In fact, the only possible question in such a context is a yes/no interrogative:

(27) Você conhece alguém em São Paulo? 'Do you know anyone in Sao Paolo?'

WH-questions presuppose existence; hence, WH interrogatives (of whatever type) will be inappropriate in contexts unable to guarantee this condition. This is corroborated by Oushiro's (2010) data: she reports that she found no question (be it with moved WH or WH-in-situ) in out-of-the-blue contexts in her cornus

The language acquisition and sociolinguistics results discussed here point to the same conclusion, namely, that linguistic CG disfavors WH-in-situ and contexts with universal presuppositions (not linguistically provided) favor it. However, we do not find 100 percent of WH-in-situ in universal presupposition contexts and 0 percent of WH-in-situ in contexts with linguistic CG. Rather we find only a general tendency, and it is still possible to have WH-in-situ with linguistic CG, although this is less probable. Given that even this more refined analysis, considering different kinds of CG, is not able to clearly predict the licensing conditions for WH-in-situ in BP, it is necessary to seek an analysis where grammatical restrictions play a central role. This is discussed in the next section.

11.4 AN ANALYSIS OF WH-IN-SITU IN BP

One of the main topics concerning the discussion on WH-in-situ is: Must WH-in-situ always display covert movement? The fact that WH-in-situ can take wide scope like moved WH phrases is an argument for some kind of movement. However, it may be the case that it is not the WH phrase that moves but something else. For example, Bošković (1998), examining data from French, proposes that there is insertion in LF of a [+wh] complementizer (which explains why there is no WH-in-situ out of root domains in French). This author also proposes that LF movement is necessarily feature movement (which explains the sensitivity of WH-in-situ in French to negation, for example). Severtheless, BP has no comparable restrictions: WH-in-situ is available in embedded sentences as well as in negative sentences, as shown in (28a) and (28b), respectively:

(28) a. O João disse que o Pedro comprou <u>o quê</u>?

The John said that the Peter bought what
"What did John say that Peter bought?"

6. Cf. Cheng and Rooryck (2000), who, in a rather distinct way, also propose feature movement at LF in order to explain the facts in French. These authors propose the existence of an intonation morpheme that licenses both WH-in-situ and yes/no questions and is realized by the rising intonation present in these structures. Being compatible with both structures, this morpheme in French is underspecified and must be assigned a value—wh or y/n—in order to be properly interpreted. This is achieved by movement at LF of the wh-feature to C, which explains the properties WH-in-situ exhibits in French. Apparently optional, WH-in-situ is attested; if there is no intonation morpheme in the numeration, only WH-movement is possible.

b. O Pedro não come <u>o quê</u>?

The Peter not eat what

'What doesn't Peter eat?'

Alternatively, the wide scope interpretation can be obtained by other interpretative mechanisms. Reinhart (1998), for example, argues that there is no movement in Logical Form (LF) of WH-in-situ constituents. The way in which their interpretation is determined is given by a choice function, that is, a function applying to a set and yielding an individual member of the set. This mechanism is available to argument DPs but not to adverbial WH-in-situ. The prediction made by this hypothesis is that BP native speakers should see some contrast between (29a) and (29b), and also between (30a) and (30b):

- (29) a. ?A Maria riu quando o Pedro consertou <u>o quê</u>

 The Mary laughed when the Peter fixed what (com chiclete)?

 (with chewing gum)
- *What did Mary laugh when Peter fixed t with chewing gum?
- b. ??/* A Maria riu quando o Pedro consertou o The Mary laughed when the Peter fixed the carro como?
 car how
- **How did Mary laugh when Peter fixed the car t?
- (30) a. ?O Pedro conheceu a mulher que consertou o

 The Peter knew the woman that fixed the
- carro de <u>que</u> <u>maneira?</u> car in which way
- "In which way did Peter know the woman that fixed the cart?"
- b. *O Pedro conheceu a mulher que consertou o carro como?

 The Peter knew the woman that fixed the car how?

 "*How did Peter know the woman that fixed the car t?"

However, judgements are not so clear-cut. In fact, it seems that only whysentences are completely excluded from islands. Most speakers find locative and manner adjuncts degraded in relative clauses but judge them as less degraded in adjunct islands. There are even speakers who see no contrast at all between the sentences in (29) and (30). Hence, even if choice functions are our best alternative to explain the facts in BP (including the cases of ellipsis discussed in section 11.2), it is clear that it cannot be the whole story. In any event, we assume that the interpretative problem can be solved along the lines outlined previously, and we now turn our attention to the syntactic problem.

Kato (2004, 2013) proposes that there are two kinds of WH-in-situ in BP: *echo questions* (exhibiting fising intonation, like yes/no questions) and *ordinary questions* (showing falling intonation, like declarative sentences). Her hypothesis is that these two types of WH-in-situ have different sources:

- (31) a. the echo-question is the real in situ case; its intonation pattern is given by the interrogative operator Q also present in yes/no questions.
- b. the ordinary question is a fake in-situ case: the WH undergoes short movement to a lower FocusP position (cf. Belletti 2004), where it has its WH-features checked. The FP position in the periphery of \(\nu\)P assigns falling intonation to the sentence, the same present in sentences with information focus on the object for example.

Elaborating somewhat on Hornstein, Nunes, and Grohmann's (2005) proposal, Kato (2004) assumes that BP has three different complementizers with different properties:

- (i) a lexical que [+wh] present in C⁰ forces the WH-phrase to move to its Spec:
- (32) $[C_P \text{ Quem } [C_P \text{ que}_{[+wh]}] [P_P \text{ você } \text{ viu } t_{WH}]]]$ who that you saw 'Who did you see?'
- (ii) a null Ø [wib] present in C⁰ prevents the WH-phrase from moving to Spec CP; this is the real in-situ construction. This complementizer is responsible for the movement of IP to Spec CP (cf. Kayne 1994) and also triggers the rising intonation, characteristic of yes/no questions and echo WH-insitu questions:
- (33) a. [_{CP} Q [_{IP} Você viu a Maria]] → [_{CP} [_{IP} você viu a Maria], [_C'Q [_{IP} t,]]]
 You saw the Mary
 'Did you see Mary?'
 b. [_{CP} Q [_{IP} Você viu quem]] → [_{CP} [_{IP} você viu quem], [_C'Q [_{IP} t,]]]
- b. $[_{\mathbb{CP}} Q[_{\mathbb{I}_P} \ Você \ viu \ quem]] \rightarrow [_{\mathbb{CP}} [_{\mathbb{I}_P} \ você \ viu \ quem], [_{\mathbb{C}} Q[_{\mathbb{I}_P} \ t,]]]$ 'You saw who?
 'You saw WHO?'
- 7. Note that the lexical complementizer que trans must also have a [+finite] feature, as the ungrammaticality of (i) shows (cf. the example in (3) in the text):
- (i) *Oque que fazer numa situação dessas? what that to do in-a situation of-this

(34) a.
$$L_{CP}$$
 Quem $[c \otimes_{(awh)}]$ $[l_P]$ você viu $t_{wt}]]]$ who you saw .

o.
$$\lfloor_{CP}Q \rfloor_{P}$$
 você viu \lfloor_{FP} quem $\lfloor_{F'} \lceil \emptyset \land wh \rceil \rceil \rfloor$ 'Who did you see?'

tizers, each one with a different set of features between moved WH and WH-in-situ; in fact, there are different complemen-This approach leads us to the conclusion that there is no optionality at all

able predictions: (i) echo WH-in-situ and yes/no questions have the same intosentences with information focus on the object or answering out-of-the-blue nation pattern, and (ii) real information WH-in-situ questions and declarative close relation between prosody and syntax,8 producing two interesting testinformation-seeking WH-in-situ question in PB. This approach assumes a importance to the difference in intonation patterns between echo and real WH-questions also share the same prosody Kato's (2004) analysis is the first one noting and attributing theoretical

phonetics To test these predictions, we conducted a pilot experiment in acoustic

same intonational pattern, in particular in the very end of the sentences. Figures 11.1 and 11.2, echo WH-in-situ shares with yes/no questions the It turns out that Kato's claims are partially confirmed: as we can see in

levou o Zé? (Has Mara taken Zé?) uttered in a context such as "Mara went to a party in her office and we don't know whether her boyfriend, Zé, was with a cooked skunk to dinner"; Figure 11.2 exemplify a yes/no question A Mara QUE? (Mary has brought WHAT?) uttered in a context like "Mary has brought her," where the subject is not part of the focus. Figure 11.1 shows the pitch contours of an echo WH-in-situ A Muria levou O

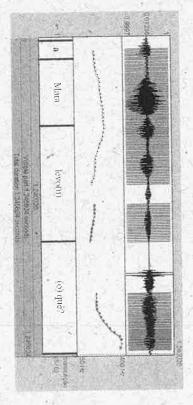


Figure 11.1 Wave form, energy and pitch contours of the echo WH-in-situ sentence A Maria levou O QUE?

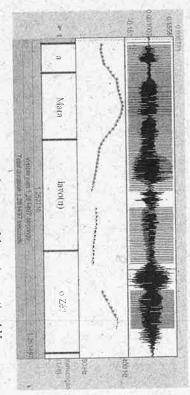


Figure 11.2 Wave form, energy and pitch contours of the yes/no question A Mara levou o $Z\acute{e}$?

and a final falling tone, it is also clear that the range of the movements are very different, as shown in Figures 11.3 and 11.4. tle: although it is true that both sentences exhibit a raising tone on the verb The second parallel drawn by Kato (2004) is a more difficult matter to set-

a clue for a syntactic structure or a syntactic operation, a point to which future cannot be completely supported by the data, it is clear that intonation can be research must return. Although it seems that such a close relation between prosody and syntax

WH-in-situ questions should be found. The data show that this is not the case example, some differences in word order between echo and real information not the direct object but the indirect object or an adjunct phrase of manner, for particular, it would be expected that in structures in which the WH-in-situ is echo and real information WH-in-situ questions have different structures. In In what follows, we turn our attention to Kato's (2004, 2013) claim that

part of the sentence and do not pay attention to other intonation clues as duration. for example. 8. However, Kato's (2004, 2013) works make reference only to the prosody of the last

speaker does not mistake one structure for the other. ible being a much higher H tone on the subject of the y/n question. Clearly, a native many differences can be observed between the two intonation patterns, the most vis-9. It is noteworthy that, even if the two structures are very similar in their endings,

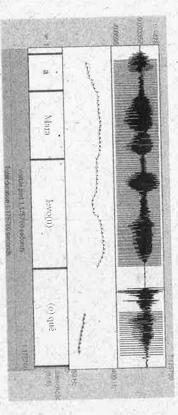


Figure 11.3 Wave form, energy and the pitch contour processed by the MOMEL script of the ordinary WH-in-situ A Maria levou o qué?

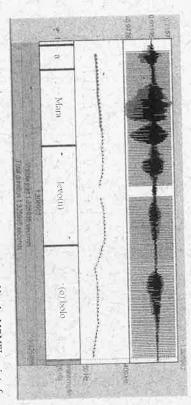


Figure 11.4 Wave form, energy and the pitch contour processed by the MOMEL script of the out of the blue declarative A Maria levou o bolo

- (35) a. O Pedro deu esse presente pra quem? (real question)

 Peter gave this gift to whom

 'To whom did Peter give this gift?'

 h O Pedro den esse presente PRA QUEM? (echo questi
- b. O Pedro deu esse presente PRA QUEM? (echo question)
 c. O Pedro deu pra quem esse presente? (real question)
- d. O Pedro deu PRA QUEM esse presente? (echo question)
- 26) o O Padro vin a Maria como? (real question)
- (36) a. O Pedro viu a Maria como? (real question)
 Peter saw Mary how
 'How did Peter see Mary?'

- b. O Pedro viu a Maria COMO? (echo question)
- c. O Pedro viu como(,) a Maria? (real question)
- d. O Pedro viu COMO(,) a Maria? (echo question)

situ structures, the "parasitic" null object would be a pro. Hence, no stress shift of the WH-phrase to the lower FocusP. In particular, in parasitic gap construcin-situ, since only in the latter could we have a trace thanks to the movement on stress shift possibilities on echo WH-in-situ and on what she calls fake WH categories are not alike in this respect: pro blocks stress shift while traces do not ing the possibility of stress shift. Nunes and Santos (2007) observe that null seeking WH-in-situ as in Kato's proposal makes a wrong prediction concernwould be grammatical, given the trace in the matrix sentence. However, as we see WH structures exemplified in (37b, b'), stress shift in the embedded sentence other hand, in the real information-seeking WH-in-situ structures, as in moved should be allowed, like in instances of no A-bar movement as (37a, a'); on the tions (PG), the prediction would be that, since there is no trace in echo WH-inhave this effect. If Kato's analysis is correct, we would expect some difference as echo or fake ones (examples adapted from Nunes and Santos 2007: 127): in (37c, c') and (37d, d'), no stress shift is possible in WH-in-situ interrogatives Moreover, assuming different structures for echo and real information-

- (37) a. Eu encomendei esse livro [depois que ela ok perdeu pro ontem]
- a'. Eu encomendei esse livro [depois que ela "<u>per</u>deu*pro <u>on</u>tem*] I ordered this book after that she lost yesterday 'Tordered his book after she had lost it yesterday'
- b. [Que livro]; você encomendout, [depois que ela ok per<u>deu PG on</u>tern]?
- b'. [Que livro], você encomendou t, [depois que ela ok perdeu PG ontem]? which book you ordered after that she lost yesterday 'Which book did you order after she lost yesterday?'
- c. Você encomendou que livro [depois que ela ot per<u>deu</u> pro <u>on</u>tem]?
- c'. Você encomendou que livro [depois que ela * <u>per</u>deu <u>pro on</u>tem]? you ordered which book after that she lost yesterday
- d. Você encomendou QUE LIVRO [depois que ela ot perdeu pro ontem]?
- d'. Você encomendou QUE LIVRO [depois que ela * <u>per</u>deu <u>pro on</u>tem]? you ordered WHICH BOOK after that she lost yesterday

The judgments reported by Nunes and Santos (2007: 127) do not contain echo WH-in-situ sentences, but in any case they suggest that WH-in-situ

information-seeking questions in BP. We adopt the more conservative idea lead us to abandon the difference in structural representation of echo and real like (37b, b'). Even if these judgements are subtle, they are robust. These facts interrogatives always behave like (37a, a'), as opposed to moved WH-questions. independently of their intonation or their interpretation. that in-situ questions are in fact in-situ, as suggested by stress shift facts,

generated in the head of CP). of the different complementizers: the null Ø $_{[\cdot,wh]}$ is responsible for the (echo or data concerning apparent optionality are explained on the basis of the choice see how Kato's hypothesis deals with the data examined in section 11.2. The tizers, makes very precise predictions concerning the distribution of the difthe \varnothing $_{(wh)}$ is responsible for the version with moved WH (in which case it is real information) WH in-situ version of the interrogatives in (1) to (5), 10 while ferent types of WH structures. Elaborating somewhat on her proposal, let us In any event, Kato's (2004) analysis of BP, resorting to a set of complemen

analysis is the case of inherently non D-linked cases, as in (9). Given the special is null). The only case for which this hypothesis does not provide an immediate requires WH-movement to the embedded Spec CP even if the complementizer interrogatives) or a selectional requirement of the matrix predicate (which cerned, we have either the lexical que occupying C (including the case of cleft are led to suppose that it is impossible to use the choice function mechanism to lexical character of this WH expression, in particular its impossibility to refer, we arrive at an interpretation for this DP, a matter that deserves further research. On the other hand, as far as the obligatory WH-movement version is con-

in (13)) and truncated structures (as in (14) and (15)). In all these cases, the clauses in (10) and adjunct clauses in (11)), definite null subjects (exemplified in-situ cases. The sentences analyzed are those presented in (10) to (15), tion of these sentences as questions. The original proposal builds the relation chosen complementizer is the $\varnothing_{|\cdot wh|}$. The problem is to relate this complemented which exemplify the following syntactic constructions: strong islands (relative the Q morpheme to the WH-in-situ in strong islands impossible in the case of strong islands. We need to find another way to relate postulating remnant movement of the sentence to Spec CP, but this is clearly tizer to the Q morpheme, which is ultimately responsible for the interpreta-Kato's hypothesis faces more difficulties in explaining the obligatory WH.

problems in the recent literature. In order to deal with cross-linguistic differences in interrogative constructions, the Minimalist Program, for example At this point it is interesting to seek new ways of thinking about these old

not surprising to find researchers playing with more than simply the WH that could be responsible for the distinctions at the interfaces. It is therefore operator and its variable, such as Kato (2004, 2013) and Cheng and Rooryck (which assumes that narrow syntax is universal), tries to find other elements analysis of WH-in-situ in both the nominal and clausal domains. WH-in-situ inside islands is possible in this language, they arrive at a unified (2013) on Spanish WH-in-situ. Assuming a non-movement approach, since (2000). A particularly interesting work in this respect is Reglero and Ticio

with a copy theory of movement partially explain the Spanish WH-in-situ and enters the derivation in ForceP. Thus different Q-particles associated triggers its movement and another that does not agree with the WH-phrase sesses two Q-particles in the lexicon: one that agrees with the WH-phrase and in Spanish requires the most prominent element of the sentence or DP, (its facts. Other characteristics of the phenomenon are explained by an interface focus) to be at the very right edge in order to receive main stress language-specific restriction, namely, the fact that the Nuclear Stress Rule Their hypothesis, built on the work of Cable (2010), is that Spanish pos-

Our point here is just to note that we have to have one more element to be is not our intention to assume a particular version of the Minimalist Program. or many types of complementizers, or something else. For the time being able to complete the picture: a Q-morpheme, null or realized by intonation constraints languages exhibit. we leave this question for future work, keeping our attention on the specific It is not our aim here to defend this specific analysis or any other, because it

see in BP is the same: in BP the stress rule applying in declaratives does not that a phonological rule that is mandatory in Spanish declarative sentences sible to have "medial" WH-in-situ, as seen in examples like (35c-d) and (36c-d). the same is true of WH-in-situ sentences, which means that it is perfectly posrequire the final position to be the most prominent element of the sentence; the Nuclear Stress Rule—is also active in WH-in-situ constructions. What we One of the interesting observations of Reglero and Ticio's (2013) work is

option of this grammar, not a universal impossibility, as shown by the Rio da situ in definite null subject constructions in BP is less direct: this is a parametric ject phenomenon. This is the reason why the explanation for obligatory WH-in to be contrasted with the BP data in (13), repeated here as (38e-f): Plata Spanish data (we thank Marcelo Villena e Andrés Saab for these data)— Yet more interesting is the fact that WH-in-situ interacts with the null sub-

- (38)a (you) go where? adónde?
- 9 Maria llegó Mary - arrived when? cuándo?

^{10.} It is not clear how the hypothesis that this complementizer has the ability to force remnant movement of the sentence to Spec CP, as in Kato's original proposal, deals with the sentences in (3).

- Adonde vas?
- Д. Cuándo llegó (Maria)?
- e. Falou o quê?
- * O que (que) falou? What .. spoke?

in which the focus has been moved to the initial position of the sentence, as subjects. Specially in root sentences, Figueiredo Silva observes that null subgested that the CP system is concerned with the possibility of definite null tion, the sentence is acceptable, as shown by (40): jects are impossible both in interrogative sentences and in focalized sentences (39) shows; however, if the focalized phrase is not moved to this higher posi-Some scholars (cf. Figueiredo Silva 1996, 2000; Modesto 2000) have sug-

- * O que /what ec bought?/ ec comprou?
- (context: Mary will bring a salad to the dinner) * (Não,) A SOBREMESA ec vai trazer.
- (40)(context: someone says: "Mary will bring a salad to the dinner") No, THE DESSERT will bring
- (Não,) ec vai trazer A Will bring THE DESSERT SOBREMESA.

fighting for an adequate position. the CP system, where null subjects and moved WH or focused phrases will be phrases and null subjects in BP. The problem concerns the higher projection in Hence, it seems that there is no incompatibility between focalized (in-situ)

tional focus on the object either, as shown in (41): It should be noted that null subjects are not incompatible with informa-

- Quem a Maria convidou 'Who did Mary invite for dinner?' Mary invited pra to jantar? dinner?
- ec convidou o Paulo. invited Paul
- 'She invited Paul.'

ter to be discussed in the next section; the truncated structures presented in (14) and (15) are also discussed However, it can be the case that (41) is in fact an elliptical structure, a mat-

11.5 ELLIPTICAL STRUCTURES AND OBLIGATORY WH-IN-SITU

jection, how can we interpret them as WH interrogatives? with whom?)? If they really are structures in which there is no functional prostructures like o dodoi de quem? (injury of whom?) or junto com quem? (together We now must consider the following problem: What should be said about

of interrogatives, shown in (42) (material in "< >" are elided): A possible solution (tentative at this stage) is to explore a general property

- (42)A O que 'What did John João comeu? eat?
- ÿ <O João comeu> maçã '<John ate> apple'.

of the sentence that cannot be missing is the focused element. But how can we represent this structural possibility? the answer to the WH constituent. As noted by Vallduvi (1993), the only part the focused part of the sentence, which is new information, corresponding to The most natural answer to the question is not the full sentence but only

a structure like (43):11 tional focus and are the only pronounced part of the sentence, must occupy the specifier of a higher FocusP position. Hence, the answer in (42) has in fact (2004, 2013) is to suppose that focalized elements, when they are informa-An answer to this question in the spirit of the framework adopted by Kato

l_{FocP} maçã, Apples, John ate. L_{IP} <0 the John João comeu t_i>]]

relevant part of the question. How exactly does this process of elision work? part ("maçã"), we have a special structure, in which 'maçã' is in (a higher) Spec FocusP and the remaining part of the sentence is elided under identity with the When the answer to the question in (42) is comprised of only the focus

to α , and α is selected by a functional head containing an [E] feature. Hence author, a constituent α can be elided if there exists an antecedent β , identical We propose an analysis based on Saab's (2008) ellipsis theory. For this

a position outside IP, followed by ellipsis of the entire IP. Although comparing these proposes an analysis similar to what is being proposed here: the answer with a finite verb is derived from the full sentence, with additional movement of the finite verb to proposals would be very interesting, it would lead us far from our present concerns and for this reason we leave aside this matter. 11. Holmberg (2001), discussing minimal answers to yes/no questions in Finish

TP can be elided if C has the [E] feature; VP can be elided if T has the [E] feature, and so on. If we adopt this proposal, we can say that IP in (43) can be elided because the head of FocusP has the [E] feature.

The problem we have to solve here is one of locality concerning the identity requirement that holds for ellipsis: it is clear that, in the example under discussion, there exists an antecedent β , but this antecedent does not belong to the utterance of the same speaker. However, it must be noted that question/ answer pairs are domains of locality for other process, including pronominal reference, as we can see in the following:

In out-of-the-blue contexts, B's sentence would have the interpretation in which it is Ana herself who left, a reading excluded in the dialogue, showing that even if the DP belongs to the speech of a different speaker, it counts as a possible antecedent for the pronoun.

If this set of ideas is correct, we also have an explanation for the cases of truncated structures, like o dodoi de quem?, in which it seems that an isolated DP is doing the job of a whole sentence. We can hypothesize that in fact this DP is an argument of a sentence, which is elided under identity, resulting in a structure like (45):12

(45)
$$\{p_{\text{ocusp}} \mid \text{o dodoi de quem}\}$$
, $\text{Foc}_{i+\text{E}} [p_{\text{p}} \text{ você viu } t_i]\}$

Here the problem is more serious because in fact we do not have the sentence in the preceding discourse. A complete analysis of this type of case deserves a separate study.

In any case, for the most general case, it seems possible to extend the analysis and postulate movement of the focus of the sentence to Spec Focus P, yielding representations like (47) for question/answer pairs like (46):¹³

12. As observed by an anonymous reviewer, it may be the case that the structure at stake is not like (45) but rather like the following:

(i)
$$[_{IP} \text{ você viu } [_{PocusP} [o \text{ dodói de quem}], Poc_{[+E]} [_{vP...}]]]$$

However, it is not clear how to implement an analysis based on ellipsis if the structure at hand is (i) because, in general, elliptical processes operate by stripping out the lower part of the tree, not the upper one.

13. These constructions can be considered examples of the "vertical syntax" discussed by Scollon (1976). According to the author, this type of interaction is crucial in children's development of syntax. Children start with a vertical syntax, with the adults'

- (46) A: Onde você está indo? 'Where are you going?'
- 3: Para o quarto 'To the bedroom.'
- Fazer o quê? 'To do what?'

A

(47) B: $[p_{ocP} [para \ o \ quarto], Foc_{[+E]} [p < eu \ estou \ indo \ t_>]]$

A: $[I_{PooP}]$ [fazer o que], $Foc_{[IP]}$ $[I_{IP}]$ você está indo para o quarto $t_i > 1$]14

Even if this analysis is tentative at this stage of the research, it can explain some properties of this construction, like the impossibility of generic interpretation for the null subject in this case: the elided material is recovered under identity with the antecedent, present in the previous utterance. The generic interpretation is perfect in a root infinitive as a matrix interrogative, as we have seen in (3), partially repeated in (48):

(48) Fazer o que (numa situação dessa)?

To do what (in a situation like this)?

11.6 CONCLUSION

This chapter has presented a very detailed description of the contexts in which WH elements must move or must remain in-situ and also the contexts in which both options are possible in BP. It brought some evidence against both Pires and Taylor's (2007) and DeRoma's (2011) proposals for the pragmatic licensing conditions on WH-in-situ in BP, suggesting a way of improving DeRoma's analysis in order to account for the data discussed. It has also explored Kato's (2004, 2013) proposal regarding a syntactic analysis for this construction. Although we concluded that Kato's proposal cannot account for the facts presented in this chapter, by discussing her proposal we gained a clearer picture of WH-in-situ in BP and the WH-in-situ phenomenon in general.

participation, in order to arrive at a horizontal syntax, where he or she can produce complete sentences. As we can see by this example, vertical syntax is also present in adult exchanges.

14. As a matter of fact, this movement results in an ungrammatical sentence. Here the ellipsis seems to be a rescue strategy, a powerful mechanism that must be studied in future work.

- Belletti, Adriana. (2001). "Inversion" as focalization. In Aafke Hulk and Jean-Yves New York: Oxford University Press, 60-90. Pollock (eds.), Subject Inversion in Romance and the Theory of Universal Grammar
- Belletti, Adriana. (2004). Aspects of the low IP area. In Luigi Rizzi (ed.), The Structure of CP and IP. New York: Oxford University Press, 16-51.
- Bošković, Željko. (1998). LF movement and the Minimalist Program. In Pius N. Society 28. Amherst: University of Massachusetts Graduate Linguistic Student Tamanji and Kiyomi Kusumoto (eds.), Proceedings of North East Linguistic Association, 43-57
- Cable, Seth. (2010). The Grammar of Q. Q-Particles, Wh-Movement and Pied-Piping Oxford: Oxford University Press
- Cheng, Lisa. (2009). Wh-in-situ, from the 1980s to now. Language and Linguistics Compass 3(3): 767-791.
- Cheng, Lisa, and Johan Rooryck. (2000). Licensing WH-in-situ. Syntax 3: 1-19.
- DeRoma, Cynthia. (2011). Divide et impera—Separating operators from their variables. Doctoral dissertation, University of Connecticut, Skorrs.
- Duarte, Inês. (2000). Sobre interrogativas-Q em português europeu e português brasileiro. Paper presented at Congresso Internacional "500 Anos da Língua Portuguesa no Brasil." Évora, Portugal.
- Figueiredo Silva, Maria Cristina. (1996). A posição do sujeito em português Figueiredo Silva, Maria Cristina. (2000). Main and embedded null subjects in brasileiro: Frases finitas e infinitivas. Campinas: Editora da Unicamp.
- Brazilian Portuguese. In Mary Kato and Esmeralda Negrão (eds.), Brazilian Portuguese and the Null Subject Parameter. Frankfurt: Vervuert, 127–145.
- Grolla, Elaine, and Bruno Alvarez. (2010). The optionality of wh-in-situ questions in Psycholinguistics: Formal Approaches. Unicamp/IEL, Brazil. Brazilian Portuguese: Child and adult data. Paper presented at I Experimental
- Holmberg, Anders. (2001). The syntax of yes and no in Finnish. Studia Linguistica 55: 141-175.
- Hornstein, Norbert, Jairo Nunes, and Kleanthes Grohmann. (2005). Understanding Minimalism: An Introduction to Minimalist Syntax. New York: Cambridge University Press.
- Mary. (2004). Dislocated and in-situ wh-questions in Brazilian Portuguese Paper presented at the Spring Symposium on Spanish and Portuguese University of California, Santa Barbara.
- Kato, Mary. (2013). Deriving WH-in-situ through movement in Brazilian Portuguese. González and Mariano Reyes-Tejedor (eds.), Information Structure and In Victoria Camacho-Taboada, Angel L. Jiménez-Fernández, Javier Martín-Agreement. Amsterdam: John Benjamins, 175–192.
- Kayne, Richard. (1994). The Antisymmetry of Syntax. Cambridge, MA: MIT Press. Lopes-Rossi, Maria Aparecida. (1996). As orações interrogativas-q no português do Brasil: Um estudo diacrônico. Doctoral dissertation, Universidade Estadual de
- Modesto, Marcello. (2000). Null subjects without rich agreement. In Mary Kato and Frankfurt: Vervuert, 147-174. Esmeralda Negrão (eds.), Brazilian Portuguese and the Null Subject Parameter.
- Mioto, Carlos. (1994). As interrogativas no português brasileiro e o critério WH. Letras de Hoje 29: 19–33.

- Negrão, Esmeralda. (2000). Wh-extractions and relative clauses in Brazilian Portuguese. D.E.L.T.A. 16: 141-164.
- Oushiro, Lívia. (2010). Condicionamento discursivo-pragmático no uso variável de Nunes, Jairo, and Raquel Santos. (2007). Stress shift as a diagnostics for identify-Essays on Brazilian Portuguese Syntax. Amsterdam: John Benjamins, 121-136 ing empty categories in Brazilian Portuguese. In Jairo Nunes (ed.), Minimalist
- Oushiro, Lívia. (2011). Uma análise variacionista para as Interrogativas-Q. Master' Interrogativas-Q. Estudos Linguísticos 39: 628-639
- thesis, Universidade de São Paulo.
- Pires, Acrisio, and Heather Taylor. (2007). The syntax of WH-in-situ and common Chicago Linguistic Society 43, Vol. 2. Chicago: Chicago Linguistics Society, ground. In Malcolm Elliott (ed.), Proceedings from the Annual Meeting of the
- Reglero, Lara, and Emma Ticio. (2013). A unified analysis of WH-in-situ in Spanish The Linguistic Review 30(4): 501-546.
- Reinhart, Tania. (1998). Wh-in-situ in the framework of the Minimalism Program Natural Language Semantics 6: 29-56.
- Saab, Andrés. (2008). Hacia una teoría de la identidade parcial en la ellipsis. Doctoral dissertation, Universidad de Buenos Aires
- Scollon, Ron. (1976). Conversations with a One-Year Old: A Case Study of the Stalnaker, R. (1978). Assertion. In P. Cole (ed.), Pragmatics: Syntax and Semantics: Developmental Foundations of Syntax. Honolulu: University Press of Hawaii
- Vallduví, Enric. (1993). The informational component. Doctoral dissertation, Stalnaker, R. (2002). Common Ground. Linguistics and Philosophy 25: 701-721 University of Pennsylvania, Philadelphia.

Vol. 9. New York: Academic Press, 315-332