

# Transplanted Dialects and Language Change: Question Formation in Québec

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## 1 Introduction

Variability in question formation is a well-documented feature of French syntax. In yes/no questions, five distinct variant forms have been competing for centuries: *inversion* of (clitic) subject and verb (INV), as in (1), *complex inversion* (C-INV) (2), *rising intonation* (INT) (3), *phrase-initial interrogative particle* *est-ce-que* (ECQ) (4), and its post-verbal counterpart *tu* (TU) (5).

- (1) *As-tu* (INV) déjà parlé avec un vrai Français de France là?  
(XX.105.2768)<sup>1</sup>  
'Have you ever spoken to a real Frenchman from France?'
- (2) Et *le roi est-il* (C-INV) icitte? (XIX.036.3932)  
'And the king, is he here?'
- (3) Ah, toi *tu restes pas* (INT) avec tes parents? (XX.112.1819)  
'Oh, you don't live with your parents?'
- (4) Mes bombes *est-ce que* (ECQ) je les largue ici? (XX.078.1502)  
'My bombs, do I throw them here?'
- (5) *Tu vas-tu* (TU) être plus marié oubedonc moins marié?  
(XX.079.1471)  
'Are you gonna be more married or less married?'

Empirical studies of European varieties report that the variability illustrated in (1–5) has resolved itself in favor of INT (3), with ECQ persisting as a minor contender. INV, once the quintessential interrogative marker, is now restricted to literary use. The spread of TU is said to have been blocked by

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<sup>1</sup>Codes refer to corpus (XIX = *Récits du français québécois d'autrefois* [Poplack and St-Amand 2002]; XX = *Corpus du français parlé à Ottawa-Hull* [Poplack, 1989]; XVII = *Corpus of 17<sup>th</sup>-century popular French plays*), speaker, and line number. Examples are reproduced verbatim from audio recordings or plays.

stigma (Behnstedt 1973:32, Foulet 1921:271–272), while C–INV has disappeared altogether. In Québec French, on the other hand, not only are the “extinct” variants thriving, but, as we shall see, they each fulfill a well-defined function. As a result, the Canadian system of question formation appears structurally more complex than that of its source, the opposite of what is expected of transplanted dialects (e.g., Britain 2004).

In this paper, we investigate the continuing evolution of question formation by tracing the variable expression of yes/no questions before and after the French settlement of Québec during the 17<sup>th</sup> century.

## 2 Data and Method

The corpora on which our analyses are based, displayed in Table 1, are particularly well-suited to this endeavor.

Century	Source	Time span
20	<i>Corpus du français parlé à Ottawa-Hull</i> Poplack (1989)	(spkrs b. 1898-1965)
19	<i>Récits du français québécois d'autrefois</i> Poplack & St-Amand (2002)	(spkrs b. 1846-1895)
17	<i>17<sup>th</sup>-century popular French plays</i>	(1629-1663)
16-20	<i>Répertoire historique des grammaires du français</i> Poplack, Jarmasz, Dion & Rosen (ms)	(1530-1998)

Table 1: Data sources

Two of these represent vernaculars spoken in Québec in the 19<sup>th</sup> and 20<sup>th</sup> centuries. A corpus of 17<sup>th</sup>-century popular plays and a compilation of normative grammars dating from 1530 to the present are complementary diachronic sources representing a benchmark before the language was transplanted. We make use of the prescriptive tradition to date the variant forms, to assess their institutional acceptance, and most importantly, to ascertain the factors conditioning their selection (Rosen 2002; Poplack, Jarmasz, Dion, and Rosen (ms.); Poplack and Dion 2004; Poplack, Dion, Jarmasz and Leblanc 2002). Real-time analysis spanning several centuries will help pinpoint the locus and time of change, if any.

### 3 Variable Context

From each of the usage corpora we extracted every non-rhetorical question requiring a yes/no answer, noting the variant selected for each, excluding all others (e.g., *wh*-questions, as in (6), fixed expressions (7), non-sentential questions (8), imperatives (9), rhetorical questions (10), echo questions (11), and interrogative tags (12)).

- (6) Il dit « *Pourquoi* tu as pas tué l'ours blanc? » (XIX.036.2670)  
 'He says « *Why* didn't you kill the white bear? »'  
 (7) Hey, ça fait longtemps, *tu sais?* (XX.096.79)  
 'Hey, it's been a long time, *you know?*'  
 (8) *Les pattes rondes ça?* (XIX.043.2452)  
 '*The round paws, there?*'  
 (9) *Allons aux moutons?* (XIX.054.1893)  
 '*Shall we get to the point?*'  
 (10) *Tu as peut-être déjà vu ça ces chartières là ou entendu parler... ?*  
 (XIX.18.820)  
 '*You may have already seen those window bars, or heard of them... ?*'  
 (11) "Ah moi j'aime pas ça." "*Tu aimes pas ça?* (XX.103.398)  
 "'Ah, I don't like that." "*You don't like that?*"  
 (12) Ils grasseyent eux-autres à Montréal, *hein?* (XX.089.1725)  
 'They have a guttural R in Montreal, *eh?*'

Table 2 compares variant distribution in contemporary Québec and European French.

	Quebec French		European French				
	This study	Fox 1982	Pohl 1965	Terry 1970	Ashby 1977	Söll 1982	Coveney 2002
	%	%	%	%	%	%	%
Intonation	35	36	86	86	80	91	79
- <i>tu</i>	33	34	0	-	-	-	-
Inversion	26	29	0	11	9	1	-
<i>Est-ce que</i>	6	1	14	3	11	8	21
Complex-inv.	-	-	-	-	-	-	-
<b>Total</b>	776	871	816	3016	130	452	180

Table 2: Distribution of variants in Québec French and European French

INT is basically the only viable variant in Europe; in Canada, there are three. Why should speakers select one rather than another? Most scholars who have addressed this issue believe the variants differ pragmatically, conveying nuances like emphasis, doubt, astonishment, weak curiosity, etc. (e.g., Behnstedt 1973, Coveney 2002, Pohl 1965). We are less sanguine about our ability to identify such readings in discourse, let alone correlate them with specific variants. Instead, we examine the role of linguistic factors (e.g., subject type and frequency, form, semantics, syllable length and lexical identity of the verb, as well as polarity). Most of these, along with speech style, have been invoked for centuries as explanatory of variant choice (e.g., Ashby 1977, Behnstedt 1973, Coveney 2002, Dewaele 1999, Pohl 1965, Söll 1982, Terry 1970). We analyze their combined effect using Goldvarb 2001 (Rand and Sankoff 1990), which enables us to contextualize the role of the variants within the system, with a view to elucidating its evolution over time.

#### 4 Results

Turning first to contemporary Canadian French, a first important finding (Figure 1) is that negative polarity is overwhelmingly expressed by INT, as in (3). Ensuing analyses thus deal only with affirmative questions.

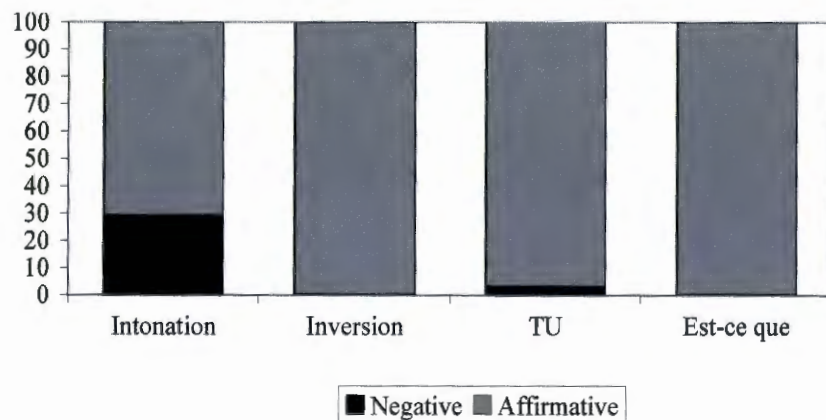


Figure 1: Distribution of variants according to polarity

Table 3 displays four independent variable rule analyses of the other factors selected as significant to variant choice.

<b>Variant</b>	<b>Inversion</b>	<b>-tu</b>	<b>Est-ce que</b>	<b>Intonation</b>
Total N	205	247	50	186
<i>Corrected mean:</i>	.30	.36	.07	.27
<b>Subject type</b>				
2 <sup>nd</sup> person	100%	.36	.37	[ ]
Others	0%	.70	.69	[ ]
<b>Verb form</b>				
Synthetic	.47	[ ]	[ ]	[ ]
Periphrastic	.64	[ ]	[ ]	[ ]
<b>Verb semantics</b>				
"Cognitive"	.77	.43	-	[ ]
Others	.36	.54	100%	[ ]
<b>Verb syllables</b>				
Polysyllabic	.64	.33	.63	[ ]
Monosyllabic	.45	.57	.45	[ ]
<b>Verb frequency</b>				
Frequent (21+)	[ ]	[ ]	[ ]	[ ]
Mid (6-20)	[ ]	[ ]	[ ]	[ ]
Rare (1-5)	[ ]	[ ]	[ ]	[ ]
<b>Style</b>				
Careful	.44	.46	.65	.52
Casual	.61	.58	.24	.45

Table 3: Variable rule analyses of factors selected as significant to variant choice: 20<sup>th</sup> century (affirmative tokens only; brackets indicate non-significant factors)

The table shows that the major task of INV is to form direct questions, as in (13), while questions involving other subjects tend to be formed with the interrogative particle TU, as in (14).

(13) Bien j'ai dit, *es-tu* (INV) fou toi? (XX.112.1980)

'So I said: "Are you nuts?"'

(14) Bien j'avais-tu (TU) de l'air niaiseuse? (XX.117.2122)

'Well, did I look silly?'

Other contexts favoring INV, albeit to a lesser degree, include verbs of cognition, as in (15), and polysyllabic verbs (16). Here INV is complementary to TU, which in turn behaves like a default variant. We also note that verb frequency, claimed by many (e.g., Ashby 1977, Behnstedt 1973, Dewaele 1999, Pohl 1965) to explain why INV persists at all, has no effect<sup>2</sup>. We conclude that INV remains productive in contemporary Canadian question formation.

- (15) *Maintenant, comprenez-vous (INV) que pour le minéral je peux le localiser maintenant?* (XX.082.2979)  
 ‘Now, do you understand that for the mineral, I can locate it now?’
- (16) *Mangeriez-vous (INV) votre père?* (XIX.004.1654)  
 ‘Would you eat your father?’

The variants also have strong stylistic connotations, and these too are the opposite of those reported for Europe: In Canada, the rare ECQ (17), and to a lesser extent, INT (18), denote *formality*, while the other variants are relegated to casual speech (19–20).

- (17) *Excusez, est-ce que (ECQ) je peux le regarder?* (XX.091.270)  
 ‘Excuse me, may I see it?’
- (18) *Vous êtes correcte comme ça ? (INT)* (XX.119.2053)  
 ‘Is everything all right this way?’
- (19) *Penses-tu (INV) que j’étais faite comme un boeuf?*  
 (XX.009.1478)  
 ‘Do you think I was built like an ox?’
- (20) *Ouais, ça a-tu (TU) du sacre bon sens ?* (XX.84.1867)  
 ‘Yeah, does that make any goddamn sense?’

We may summarize the main functions of the interrogative markers in 20<sup>th</sup> century Québec French as follows: a) negative polarity questions are expressed with INT, b) INV is specialized for direct questions, c) ECQ is a hyperstyle marker, and d) TU assumes most of the remaining (non-specialized) work of question formation. This pattern is substantively different from what is reported for European French (Table 2), where INT is the default variant, with only a little support from ECQ, while TU, a front-runner in Québec French, is practically nonexistent. This raises the question of how the Canadian system arose. Since European French is the source lan-

<sup>2</sup> Nor does lexical identity, though not shown here.

guage, it would be reasonable to assume that Canadian French is the innovator.

#### 4.1 Development of the French interrogative system

A brief review of the historical record reveals that *all* of the variants have a long and venerable history, linked to the Old French shift from VS to SV word order and ensuing efforts to rout out remaining inversions. This paved the way for the incursion of other forms, all of which had the virtue of re-establishing the desired SV order.

As far back as Middle French, INV co-existed with C-INV (Foulet 1921, Roberts 1993), which provided a solution to the problem of question formation with *nominal* subjects, since it contains both SV and VS word order. TU is widely believed to have originated through reanalysis of C-INV. But for reasons that are still not entirely clear, it was never accepted in polite discourse. Eventually, on analogy with the *qu'est-ce que* 'what is it that' paradigm for *wh*-questions, the construction *ECQ* emerged, grammaticizing to interrogative particle by the 16<sup>th</sup> century. In contrast to TU, this variant came to be explicitly ratified by the Académie Française, especially in offending contexts involving 1<sup>st</sup> conjugation and monosyllabic verbs (Vaugelas 1880/1884). INT, though perhaps the oldest (and currently the majority) variant in France, was never viewed as a serious contender.

Summarizing, according to historical accounts, the prototypical interrogative variant, INV, was ousted due to loss of the VS word order it instantiates. It is said to have disappeared first from the most salient or problematic contexts (e.g., subject NPs, first person pronouns, 1<sup>st</sup> conjugation, and other monosyllabic verbs), and persisted where it was most entrenched: frequent verbs and collocations (Behnstedt 1973, Coveney 2002, Dewaele 1999, Pohl 1965). Ensuing analyses test these hypotheses. INV's competitors, all of which reinstated the desirable SV order, infiltrated the system to varying degrees, due, at least in part, to differences in institutional and social acceptance.

#### 4.2 Question formation in 17<sup>th</sup> century French

Having reviewed the reported state of the language at the time of the French colonization of Québec in the 17<sup>th</sup> century, we now investigate the extent to which the scenario outlined above captured contemporaneous usage, as instantiated in the works of Corneille, Molière, and Richer, popular playwrights of the time. We make no claims about the extent to which rates of variant use reflect the speech of either actors or audience. But the *structure* of their variable selection, as revealed by the constraint hierarchies associ-

ated with each, can yield valuable information on their trajectory of development. This will be our focus in this section.

Variant	Inversion		Intonation
	Pronominal	Complex	
Total N	502	57	205
<i>Corrected mean:</i>	.65	.07	.27
<b>Subject type</b>			
2 <sup>nd</sup> person	[ ]	-	.59
Others	[ ]	100%	.42
<b>Verb frequency</b>			
Frequent (21+)	.56	[ ]	.46
Mid (6-20)	.42	[ ]	.52
Rare (1-5)	.38	[ ]	.60
<b>Verb form</b>			
Synthetic	.51	[ ]	.48
Periphrastic	.40	[ ]	.64
<b>Verb semantics</b>			
"Cognitive"	.58	.34	.43
Others	.45	.61	.55
<b>Verb syllables</b>			
Polysyllabic	[ ]	.39	[ ]
Monosyllabic	[ ]	.58	[ ]
<b>Style</b>			
Careful	[ ]	[ ]	[ ]
Casual	[ ]	[ ]	[ ]

Table 4: Variable rule analyses of factors selected as significant to variant choice: 17<sup>th</sup> century (affirmative tokens only)

Table 4 displays two independent variable rule analyses of the contribution of factors to variant choice in 17<sup>th</sup> century plays. The corrected means indicate that INV, mostly pronominal, was still by far the majority variant of the time; the rest is basically made up of INT.

We first note that subject type, the most important predictor of INV in 20<sup>th</sup> century French, was not significant in the 17<sup>th</sup>. This is because at the time, INV still occurred with *all* pronominal subjects, including the undesirable *je*, a full 82% of which were inverted. This is illustrated in (20).



- (20) Vous *offensé-je* (INV) en parlant de la sorte? (XVII.M.154.781)  
 ‘Do I offend you by speaking this way?’

2<sup>nd</sup> person questions favored INT, and questions involving subject NPs were formed with C–INV or, to a lesser extent, INT. At this stage INV in yes/no–questions was already vanishingly rare with NPs, but still occurred freely with all pronominal subjects. This is consistent with the observed frequency effect: INV was already favored in *frequent* verbs, foreshadowing its eventual recession. The 20<sup>th</sup>–century tendency for INV to occur with “cognitive” verbs was already in place.

Although the Académie prescribed ECQ to replace INV in first person subjects, especially with monosyllabic verbs, the form was considered too colloquial throughout the 17<sup>th</sup> century to be admitted to writing (Foulet 1921). This may explain why we found so few of them (N = 14) in the plays. In this context, it is perhaps not surprising that number of syllables was not significant. But we can already detect a clear preference for questions involving monosyllabic verbs to occur with another variant: C–INV.

Summarizing, in 17<sup>th</sup> century (approximations of) speech, INV was still used productively with a variety of subject pronouns and verbs, though there were already harbingers of the current situation, since questions involving NPs, monosyllabic and infrequent verbs tended not to be inverted, all testifying to the gradual restriction of this variant.

### 4.3 The trajectory of variant choice over three centuries

Table 5 summarizes the trajectory of variant choice over the three centuries we studied, as illustrated by the relative contributions to their selection over the duration.

Despite rate changes (observed in the corrected means), in all cases but one, the hierarchy of linguistic constraints is the same from the 19<sup>th</sup> to the 20<sup>th</sup> centuries. This suggests that any changes to the system must have predated this time. Even the clear stylistic associations noted earlier for contemporary French were firmly in place by the 19<sup>th</sup> century: INV—literary for Europeans—was already favored in *casual* contexts, as was, more predictably, TU. INT, and especially ECQ (both colloquial in European French) had become *formal* variants. But from a linguistic perspective, the system has remained essentially unchanged. For example, although C–INV disappeared, its associated conditioning was transferred to TU. Constraints on TU are now largely mirror-images of those on INV, consistent with its emerging role as majority variant: Where INV is favored, TU is disfavored. Even the differences in the contributions of subject type and verb frequency seem to be ap-

parent. Recall that in 17<sup>th</sup> century France INV could still occur freely across the entire pronominal paradigm, explaining why subject type was not selected as significant. Two centuries later, INV was highly promoted by 2<sup>nd</sup> person pronouns, a constraint which has now become categorical. But despite its productivity with pronominal subjects, INV was receding from rarer contexts. So even though frequency *appears* from Table 5 to have had no effect on variant selection since the 19<sup>th</sup> century, we suggest that this is what in fact underlies the retention of INV.

Variant	Inversion						<i>-tu</i>	<i>Est-ce que</i>	Intonation						
	Pronominal			Complex					17	19	20				
Century	17	19	20	17	19	20	17	19	20	17	19	20			
Total N	502	289	205	57	2	0	0	157	247	10	3	50	205	171	186
Corrected mean	.65	.47	.30	.07	-	-	-	.25	.36	.01	-	.07	.27	.28	.27
<b>Subject type</b>															
<i>tu/vous</i>	[ ]	.77	100%	-	-	-	-	.31	.36	-	-	.37	.59	[ ]	[ ]
Others	[ ]	.06	0%	100%	-	-	-	.88	.70	-	-	.69	.42	[ ]	[ ]
<b>Verb frequency</b>															
Frequent (21+)	.56	[ ]	[ ]	[ ]	-	-	-	[ ]	[ ]	-	-	[ ]	.46	[ ]	[ ]
Mid (6-20)	.42	[ ]	[ ]	[ ]	-	-	-	[ ]	[ ]	-	-	[ ]	.52	[ ]	[ ]
Rare (1-5)	.38	[ ]	[ ]	[ ]	-	-	-	[ ]	[ ]	-	-	[ ]	.60	[ ]	[ ]
<b>Verb form</b>															
Synthetic	.51	.53	.47	[ ]	-	-	-	[ ]	[ ]	-	-	[ ]	.48	[ ]	[ ]
Periphrastic	.40	.37	.64	[ ]	-	-	-	[ ]	[ ]	-	-	[ ]	.64	[ ]	[ ]
<b>Verb semantics</b>															
"Cognitive"	.58	.64	.77	.34	-	-	-	[ ]	.43	-	-	-	.43	.38	[ ]
Others	.45	.44	.36	.61	-	-	-	[ ]	.54	-	-	100%	.55	.56	[ ]
<b>Verb syllables</b>															
Polysyllabic	[ ]	[ ]	.64	.39	-	-	-	[ ]	.33	-	-	.63	[ ]	.42	[ ]
Monosyllabic	[ ]	[ ]	.45	.58	-	-	-	[ ]	.57	-	-	.45	[ ]	.54	[ ]
<b>Style</b>															
Careful	[ ]	.27	.44	[ ]	-	-	-	.19	.46	-	-	.65	[ ]	.80	.52
Casual	[ ]	.52	.61	[ ]	-	-	-	.54	.58	-	-	.24	[ ]	.47	.45

Table 5: Variable rule analyses of factors selected as significant to variant choice: 17<sup>th</sup>, 19<sup>th</sup> and 20<sup>th</sup> centuries (affirmative tokens only)

But why should INV be restricted to 2<sup>nd</sup> person subjects? Figure 2 shows that these have always accounted for more questions than any other grammatical person. We can assume that the French brought to Canada also contained a disproportionate number of such contexts, explaining the current persistence of INV here.

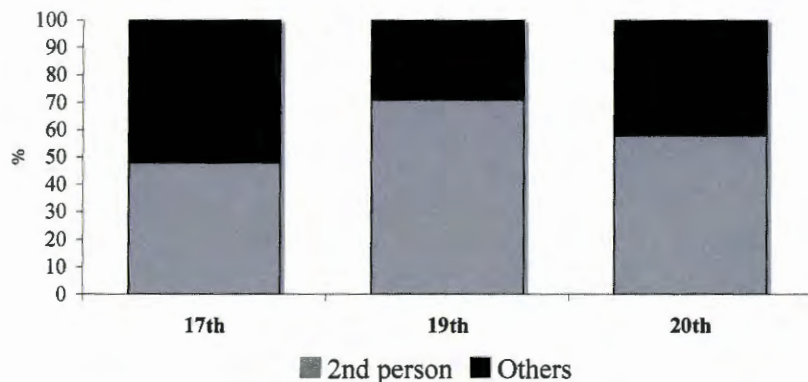


Figure 2: Distribution of questions according to grammatical person of addressee

The only real departure from 17<sup>th</sup>-century French involves negative polarity: it was strongly associated with INT by the 19<sup>th</sup> century in Québec. There is no evidence of this effect in the earlier materials.

## 5 Discussion

We may now return to the initially puzzling distributions displayed in Table 1. The Québec interrogative system, for all its differences from its contemporary European counterparts, appears to be a direct descendant of the one in use in 17<sup>th</sup> century France at the time of colonization. That system still prominently featured INV. Its total demise was blocked, not by entrenchment in frequent verbs or collocations, but rather by the preponderance of its favored *contexts* of occurrence: direct questions. C-INV, already moribund in the 17<sup>th</sup> century, disappeared altogether, but not before it transferred its functions to its alter ego TU. We know that TU (in its variant form [ti]) was (and is) widespread in many regions of France, though heavy institutional stigma curtailed its use. That stigma either failed to accompany the form to Canada, or disappeared thereafter.

Table 6 confirms that not only is TU clearly on the increase among the young, but it is also favored by women. ECQ, still too rare in the 17<sup>th</sup> century, failed to gain a true foothold in Québec. This paved the way for its eventual conversion into a hyper-formal, upper-class variant, never used by speakers under 35. INT, interrogative marker par excellence in European

French, somehow associated itself with negative questions. This is the only development for which we have found no precursor in the history of the language, though it is also attested in contemporary European varieties (Coveney 2002:212–213, citing Borillo 1979, Mosegaard Hansen 2001, Söll 1971, and Terry 1970).

<b>Variant</b>	<b>Inversion</b>	<b>-tu</b>	<b>Intonation</b>	<b>Est-ce que</b>
Total N	205	247	186	50
<i>Corrected mean:</i>	.30	.36	.27	.07
<b>Sex</b>				
Female	[ ]	.55	[ ]	[ ]
Male	[ ]	.45	[ ]	[ ]
<b>Age</b>				
35+	.56	.42	[ ]	100%
15-34	.37	.69	[ ]	-
<b>Socioeconomic class</b>				
Upper middle	[ ]	[ ]	[ ]	.85
Working	[ ]	[ ]	[ ]	.16

Table 6: Variable rule analysis of extralinguistic factors selected as significant to variant choice: 20<sup>th</sup>-century (affirmative questions only)

The distribution of these same interrogative variants in Europe is considered so compartmentalized that their variable selection is said to be achieved through code-switching. INV—simple and complex—is a feature of Standard French grammar, while INT and ECQ are restricted to “français populaire” (Kaiser 1996, De Wind 1995). For Canadian French, no such analysis is required, since all but one of the variants continue to be implicated in question formation. Moreover, our analysis suggests that the contemporary Canadian interrogative system is a rather faithful representation of the system brought over from France. Aside from some rate differences involving the two major contenders, little has changed since the 17<sup>th</sup> century. The spectacular changes have taken place in France, for reasons no one has yet elucidated. Given the remarkable continuity of the linguistic conditioning of question formation, we may surmise that, as in Canada, it is the social embedding which has driven the change.

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