Contrast and comparison in the probabilistic grammar

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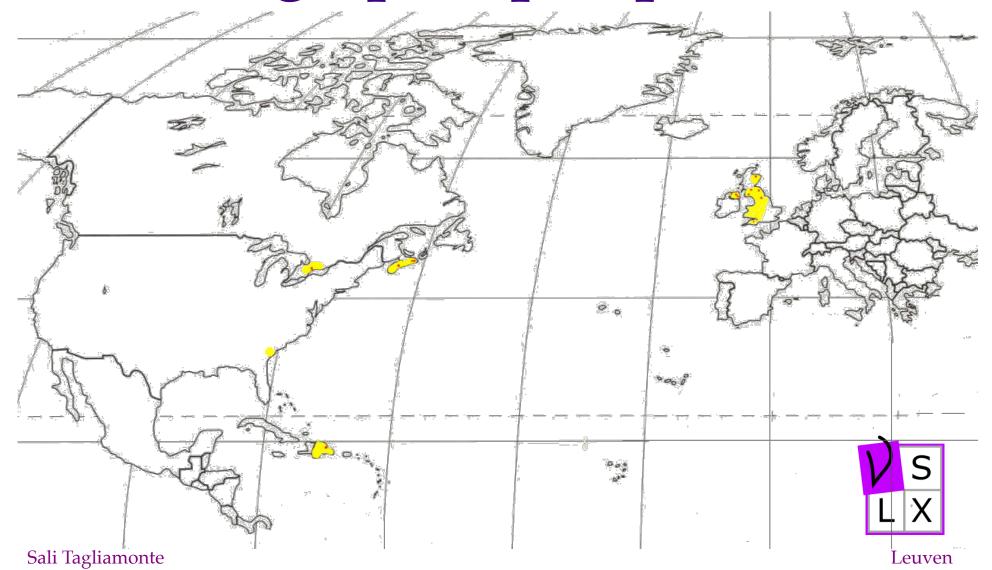


Starting point

- If many constraints are stable across varieties what can vary?
- Are some variables more susceptible to local deviation?
- Does the possibility of ongoing linguistic change within a probabilistic system make a difference to global regularities or deviations?



Geographic perspective



Comparative Sociolinguistics

- Suilt from two strands of linguistics:
 - sociolinguistics & historical linguistics
- * "the connection (relationship) of linguistic variation in one body of materials to another"
 - Poplack & Tagliamonte 2001; Tagliamonte, 2002, 2012
- Necessity of finding an ideal diagnostic
 - functions in a non-trivial way in one variety while simultaneously functioning in a different nontrivial way in another variety.



Leuven

Deontic Modality

... the system of modal auxiliaries in English,
 [is] now undergoing a *wholesale reorganization*."

* Bolinger, 1980:6

The history of the tense-aspect-modal system of English is far from over. New operators are still being introduced ... both those and the system as a whole are in the process of being *re-shaped*.

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+ Givón, 1993:187

Emerging modals

- The success story of *have got to* and *got to* in British English over the past 150 years
 Krug 1997:187
- * "... change and spread are occurring under our very eyes.
 - + Krug , 2000:45



Deontic Modality

- A range of meanings including obligation, permission and necessity
 - + Coates, 1983:32
- What do you say?
 - ✤ I *must* go to Leuven next week.
 - ✤ I have to go to Leuven next week.
 - * I 've got to go to Leuven next week.
 - ✤ I 've gotta go to Leuven next week.
 - + I gotta go to Leuven next week



Historical Perspective

English	Old	Middle	Early	Modern		
	500-1066	1066-1500	1501-1750	1751-1800	1900-2008	
mot						
permission						
must						
deontic						
must		_				
epistemic						
have to						
have got to						
got to						



Variation - 14th C

I moot go thider as I have to go.+ Chaucer, *Canterbury Tales* Pardd.C. 749, 1465



Variation — 19th C

- It 's got to be done if I have to work like a steam engine!
 - *Christmas with Grandma Elsie*, Martha Finley, c. 1828-1909



Variation — 20th C

- * It 's got to be done very careful.
- You got to go all by yourself, to the middle of the woods.
 - + Mark Twain, Tom Sawyer, 1876
- They're wide open, an' all you *gotta* do is hit 'em.
 Jack London. *Valley of the Moon*, 1911



Trajectory of change

must \rightarrow have to \rightarrow have got to \rightarrow got to \rightarrow gotta



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Social Evaluation

* Must

Formal; Associated with written language

* Have got

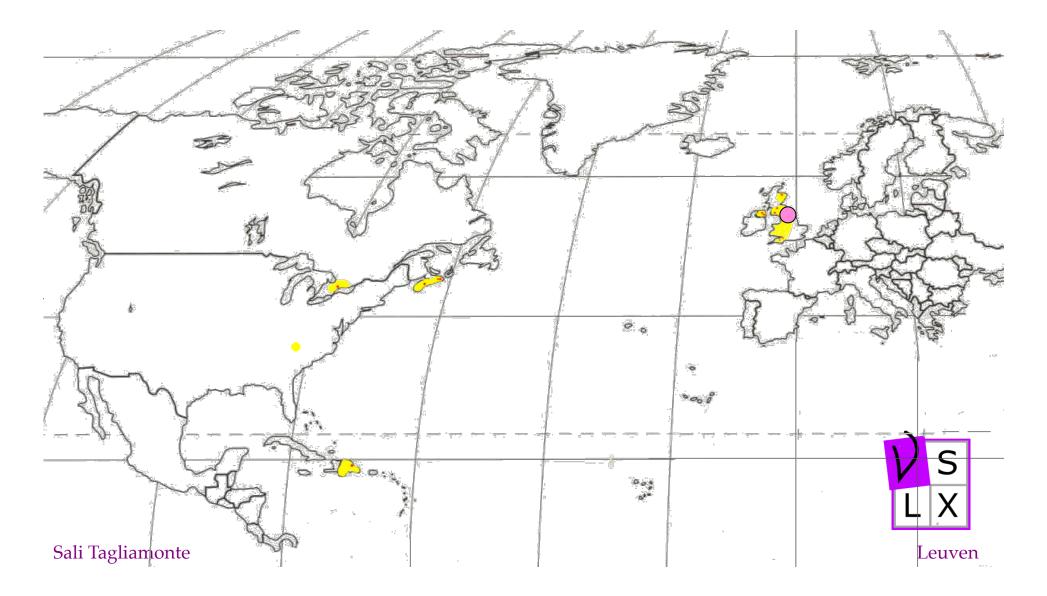
Colloquial

But... what about *have to*?

♦ Got + Informal *Gotta* Vulgar



York



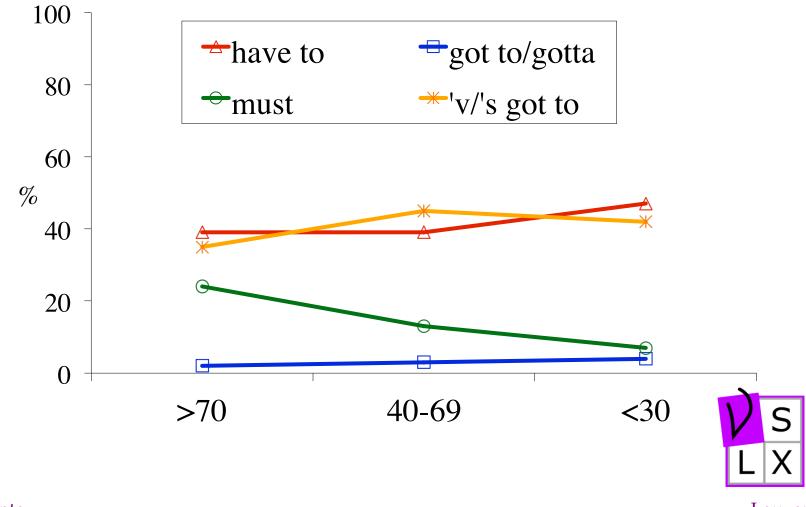
Variation — York

- You *must* take these sweeties for being a good girl.
- You *have to* believe in ghosts to ever see it. Oh dear! Why did they *have to* see me in my underpants?
- My car 's got to go to the garage. The following day I 've got to be at Church flower arranging for harvest festival.



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Overall Distribution — YRK



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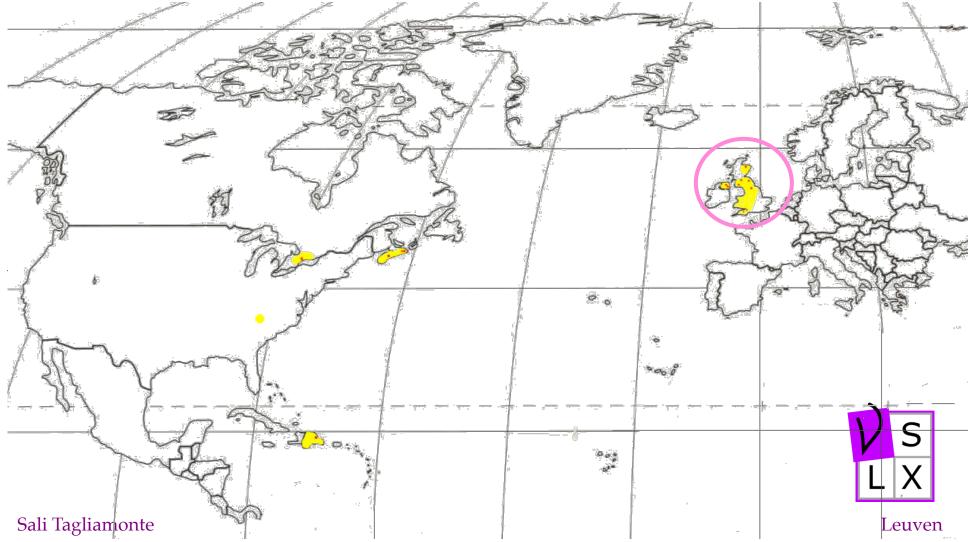
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Observations

- York
 - *+ Must* is present, but decreases in apparent time
 - + Use of *have to* is healthy across all generations
 - + Use of *got to* or *gotta* is rare.
- Robust variation between *have to* and *have got to* Tagliamonte, 2003:52-53



Britain and Northern Ireland

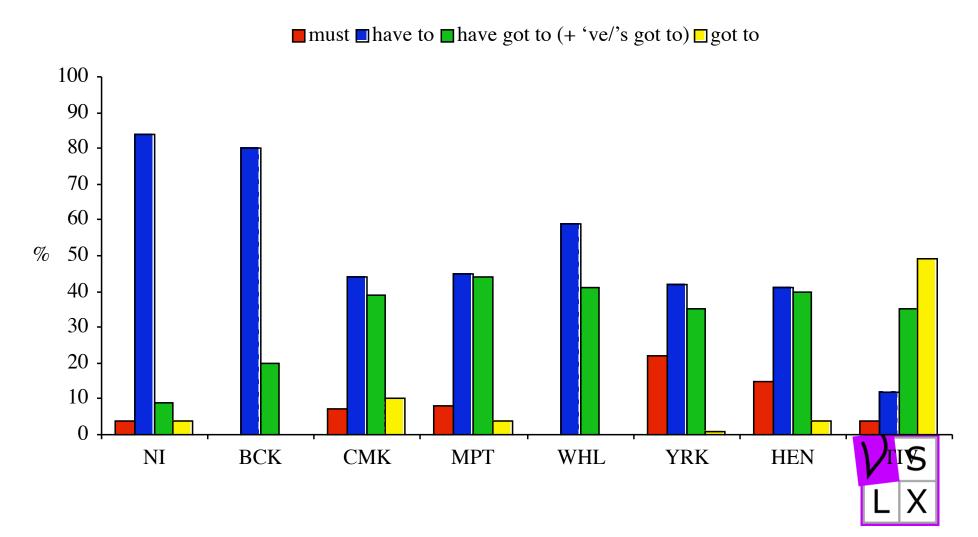


Cross-variety comparison

- Next time I'm in the doctors I *must* ask to see the physio.
- They *have to* keep up with the Jones' now.
- * You 've got to have a vice of some kind.
- It has to be natural to work
- You *have to* go through my old scullery.
- When you've got a man suddenly plunged into your life you 've got to feed him, haven't you!
- The plants *got to* drag it out.



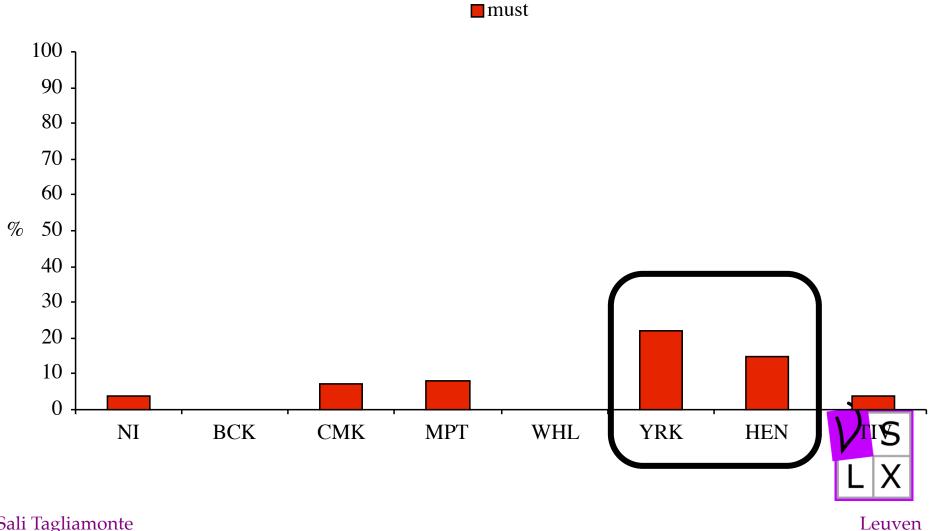
Overall Distribution — UK



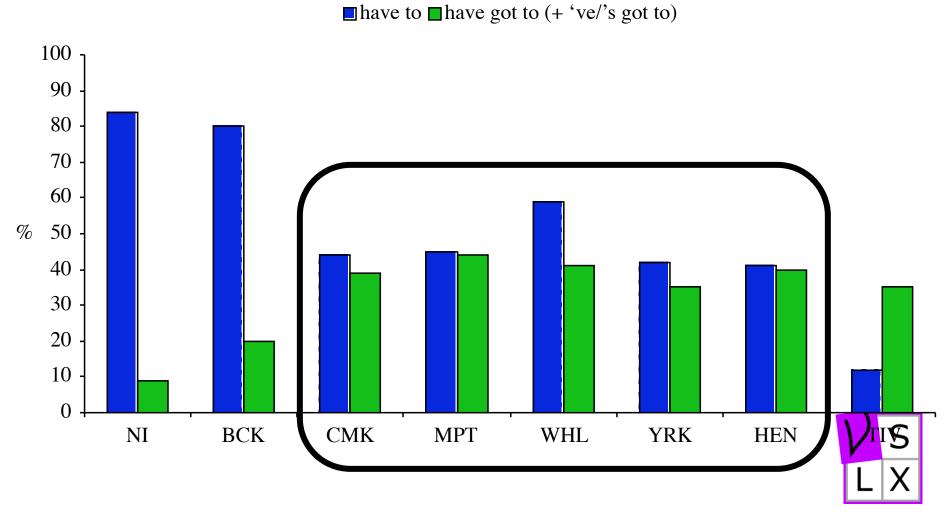
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Overall Distribution — UK



Overall Distribution — UK



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Observations

- The historical cline from *must* to *have to* to *have got to* can be viewed in geographic relief
 - * Where *have to* is more frequent --> evidence that the variety is more conservative
 - * Where *have got to* is more frequent --> evidence that the new layer has made inroads into the system
 - Where *must* is steadfast, the varieties contain middle class speakers
 - Tagliamonte & Smith, 2005:357



Constraints

* What is the underlying mechanism of the change?



Strength of Obligation

- Different forms are thought to encode different meanings, i.e. gradations in the strength of the obligation ...
 - ✤ "it is imperative that …
 - # "it is important that ...
 - # "it is necessary or a requirement that ..."
 - * Coates, 1983:32



Strength of Obligation

- * Must is thought to be strongest while the other forms are weak
- * Have to and have got to are typically grouped together with no meaning difference nor contrastive strength to the choice between them
 - ✤ Huddleston, 2002:183



Nature of Authority

- Pragmatic distinction between subjective vs. objective obligation
 - + Huddleston and Pullum 2002:183
- Subjective obligation, speaker imposes authority on themselves or others
- Objective authority comes from some other source, external to the speaker

* E.g. rules and regulations



Objective Authority ...authority comes from outside

- I'm always the biggest so I have to sit in the front of the car, Brenda's the smallest. So she *has to* sit in the back.
- You-know, why do we *have to* be so dominated by these typical names?



Subjective Authority ... Authority comes from speaker

- * I just feel like total crap about myself and it'slike, "I got to start eating better, and like exercising"
- We told her owner "You've got to get control of that dog. You 've got to get a license."

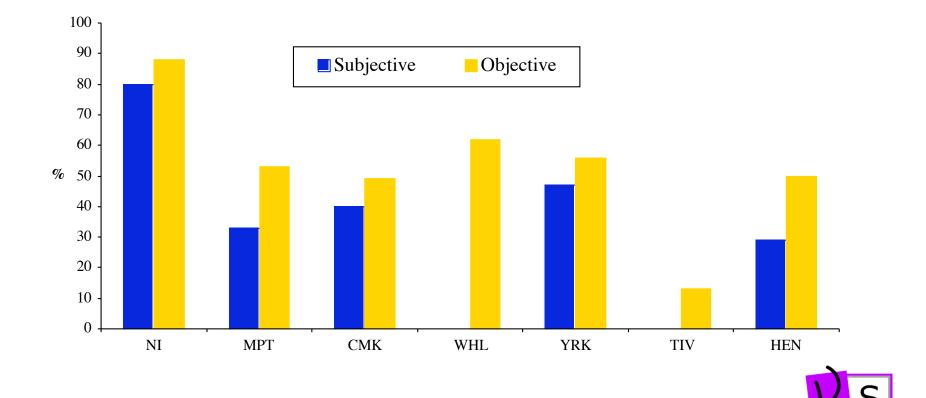


Generic readings: authority comes from outside

- Sut you *have to* wear shoes in the river.
 'Cause of all those...crabby clam things and all the rocks and stuff.
- * You just *have to* rub them the nice way.
- All you *have to* do is like get the stupid rhythm right.



Distribution of *have to* by type of authority



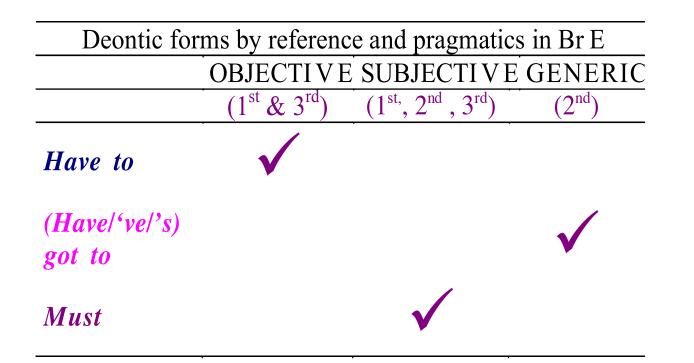
Have to in BCK, WHL, YRK

Three var	riable ru	ile ana	•		ribution of	f factors
			to have	to.		
	BUCKIE		WHEAT-		YORK	
			LEY I	HILL		
	.60 152		.32 165		.49 369	
FAC-	FW	%	FW	%	FW	%
TORS:						
Age						
> 70	.74	80	[.72]	59	.52	54
41-70	.39	47	[.46]	39	.40	40
< 40	.47	58	[.49]	29	.59	55
Range	35				20	
Sex						
Female	[.54] [.45]	63	.72	58	.55	54
Male	[.45]	54	.72 .34	26	.41	40
Range			<i>38</i>		12	
Type of r	eferenc	e				
Objective	.61	70	.81	65	.66	65
Generic	.37	40	.32	Í/	.41	40
Subjective	e .40	52	.22	16	.39	40
Range	e 36		59		27	

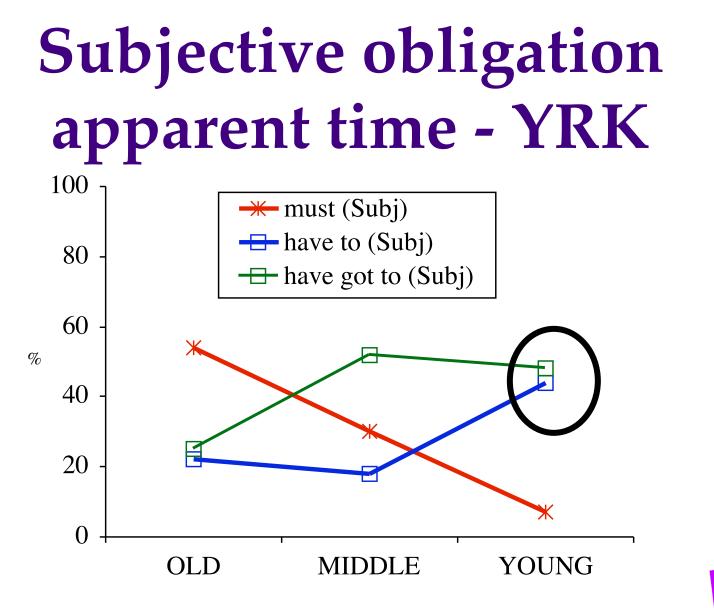
Factors selected as significant in bold.



Deontic system - UK









Observations

- *must* is moving out
- *have to* is increasing, particularly among the youngest generation.
- *have to* is taking over the slot left behind in the wake of the recession of *must* ... a stepwise progression:
 - First, have got to moves into objective readings
 - Second, *have to* moves into subjective readings

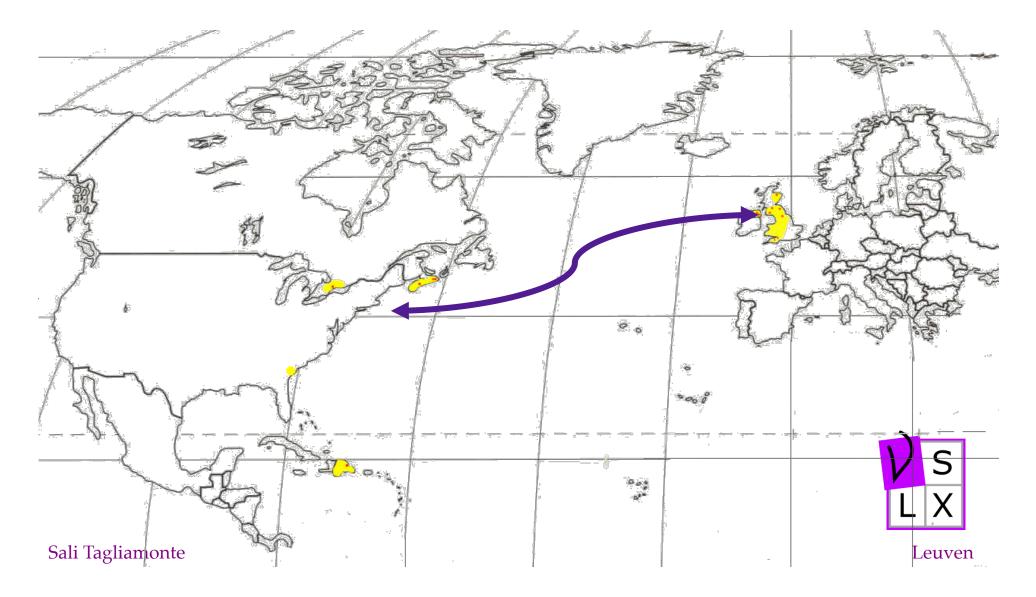


Diffusion

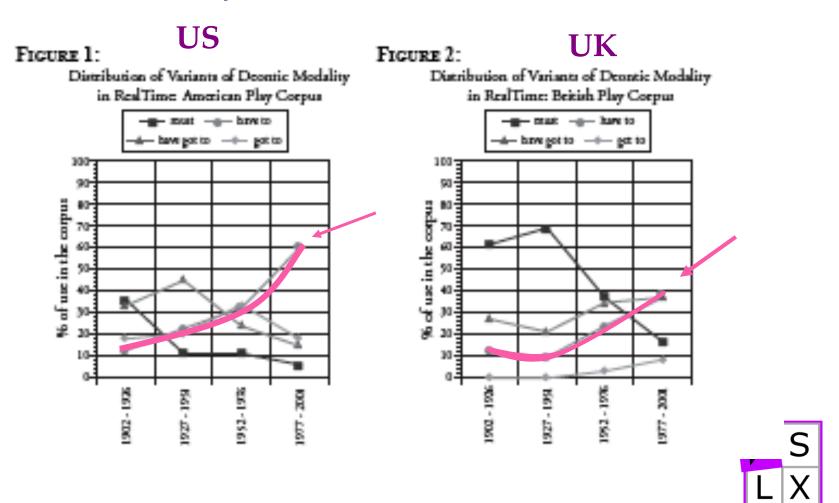
In this state of flux, what happened in places where British dialects were transplanted?



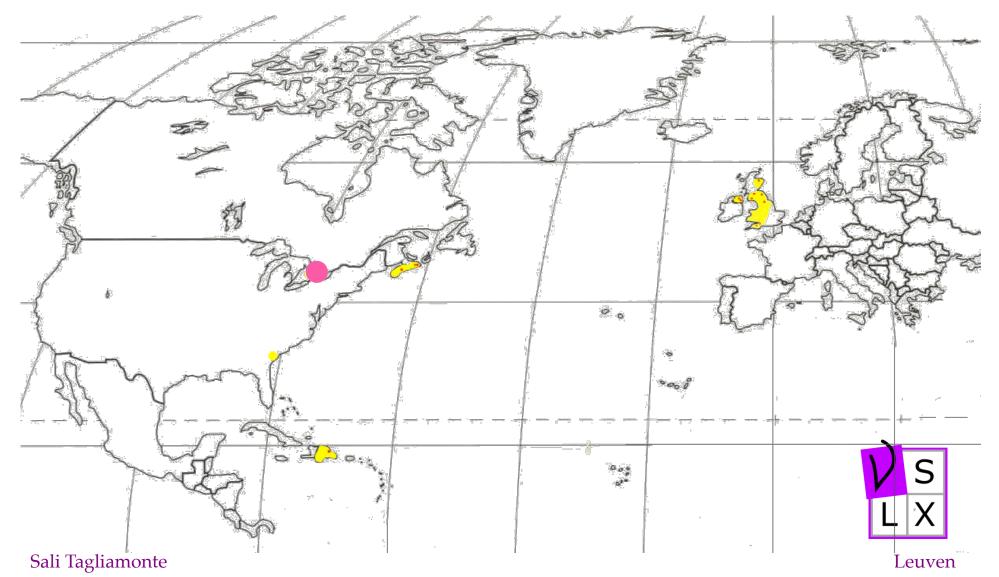
Transatlantic comparison



US and UK plays (Jankowski 2006)



Canada



Variation — TOR

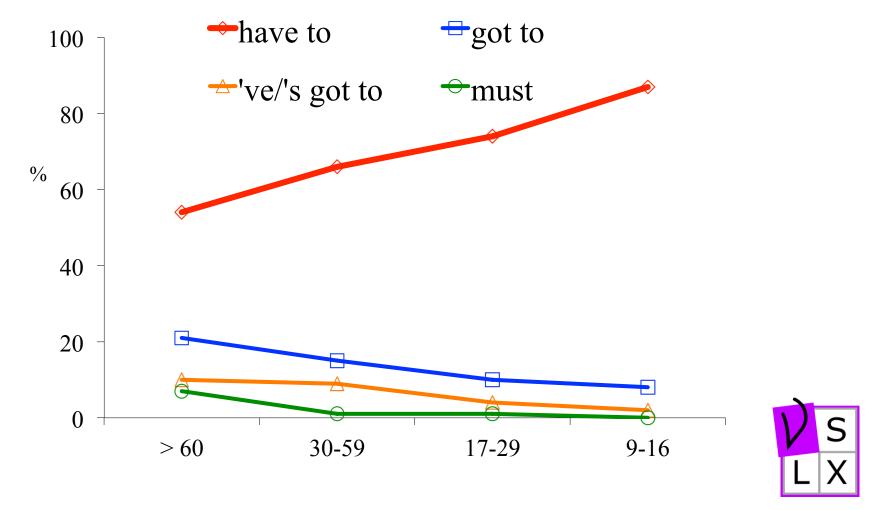
* I said, "You have to come up." I said, "you ju-- I said, "you're not gonna- you must come up." And uhm- mm- the person on the phone, I said, "I've gotta go."





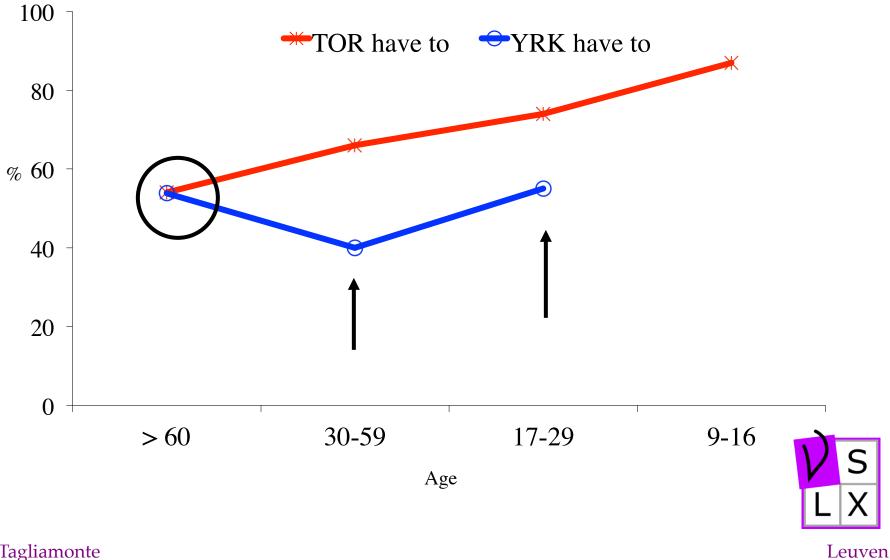
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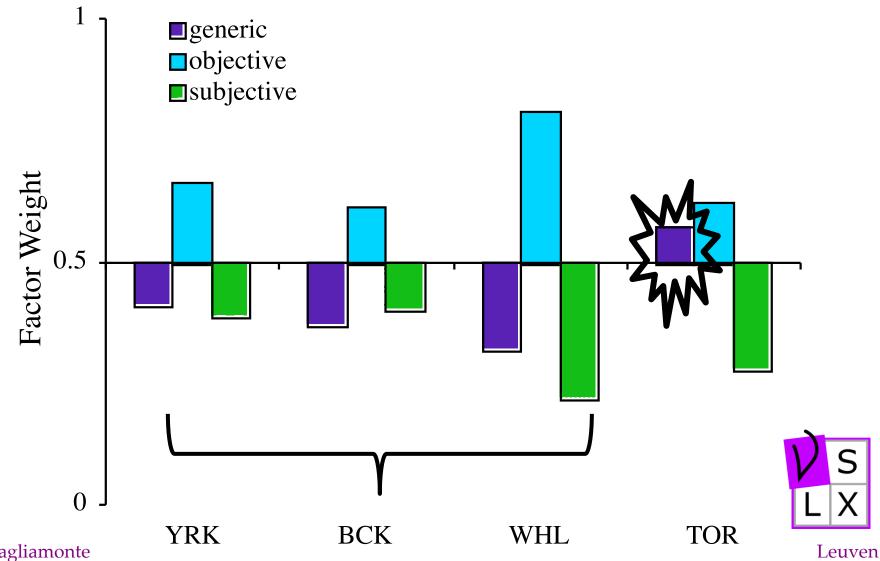
Deontic *have to* in TOR and YRK



Have to in Toronto

Corrected Mean Overall %	. 7	60 70 5.4	30- .7 73	8	17-29 .86 83.4		9-16 .92 89.9
	FW	% N	FW %	6 N	FW %	N FW	% N
Type of Subject		·					
Generic	.51 (59 73	.70 8	6 136	.52 86	248.54	4 93 110
Objective	.79	90 21	.51 7	6 49	.63 92	117.64	4 95 100
Subjective	.29	41 34	.24 5	7 105	.33 74	123.22	2 75 56
Range	50		46		30	42	2
Sex							
Female	[.54]	77 69	.59 8	0 166	.59 8 9	348 [.59] 93 152
Male	[.45] 4	48 62	.39 6	4 126	.31 71	146 [.39	93 152 86 115
Range			20		28		
Education							
Post Secondary	.76 🗚	88 56	.57 ▲ 7	9 2 3 8	[.51]85	424	
Post Secondary Secondary	.30	45 75	.22 5	0 54	[.39]74	70	
Range	46		35		1		
total N		131		292		494	267
,						•	

Have to by type of subject —UK vs. TOR



UK vs. CDA

York:

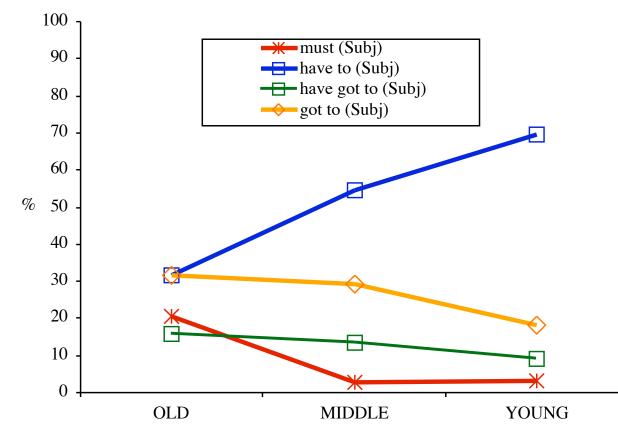
* ... you' ve got to be amazingly talented ... to win (YRK/h/H)

Toronto:

... you *have to* be very aggressive... to win (TOR/I/%)

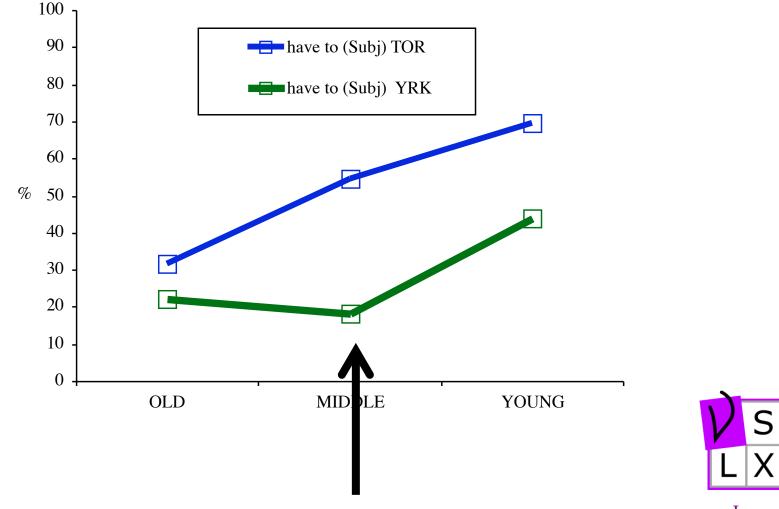


Subjective obligation over time - TOR





Subjective obligation -TOR & YRK



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Observations

- There are similar, but contrasting patterns across British and Canadian dialects
 - In Canada, *have to* is used for generic and objective meaning (externally imposed obligation)
 - In the UK, *have to* is used in objective meanings only (not generics).
- Variants of deontic modality have sociolinguistic value
 - * Females favour *have to;* males favour *got to*
- Have to is increasing



Cross-variety contrasts?

How is this change manifested across Canadian dialects?



Ontario Dialects

Toronto English Corpus

- Mainstream, urban, innovative
- Into the hinterland for conservative dialects
 - Ontario towns, Belleville, Lakefield, Burnt River





Questions

- Will the outlying communities, outside the urban centre, pattern more like:
- The UK?
 - Founder Effect
 - Conservative area
- Local deviations?



Transmission vs. Diffusion Labov, 2007

Transmission:

- ✤ Parent-to-child
- Maintenance of complex language structures

Diffusion:

- ✤ Adult-to-adult
- Imperfect replication of abstract features of language structure

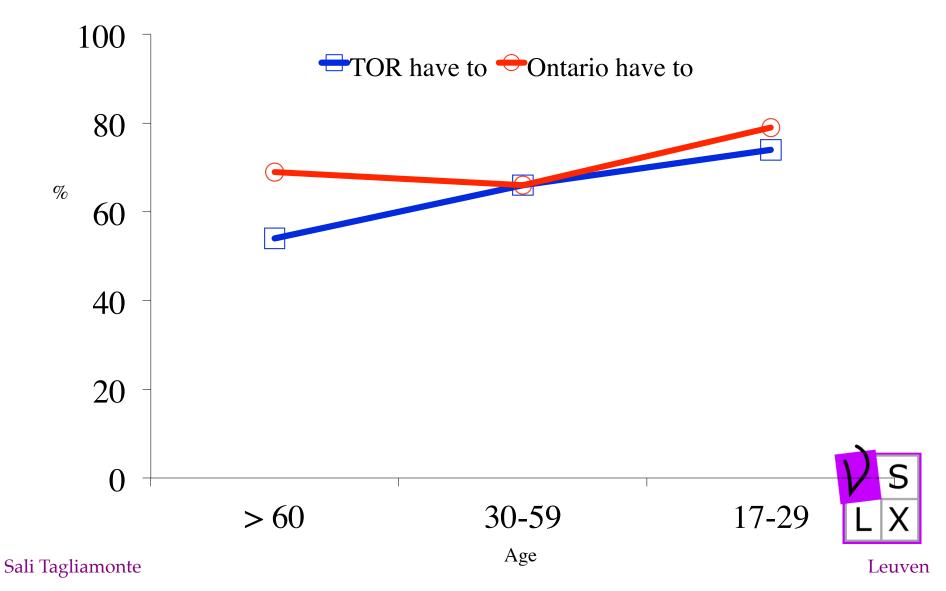


Variation - ONT

- The average farmer can't make a living farming. He *has to* have an outside job.
- And you *have to* realize back then, a dollar a day was a lot of money. (rJ/M/58)
- * I 've gotta be honest with you, I detested it!
- * You' ve got to come out of your shell at some point. You just gotta start talking to someone."



Toronto and Ontario

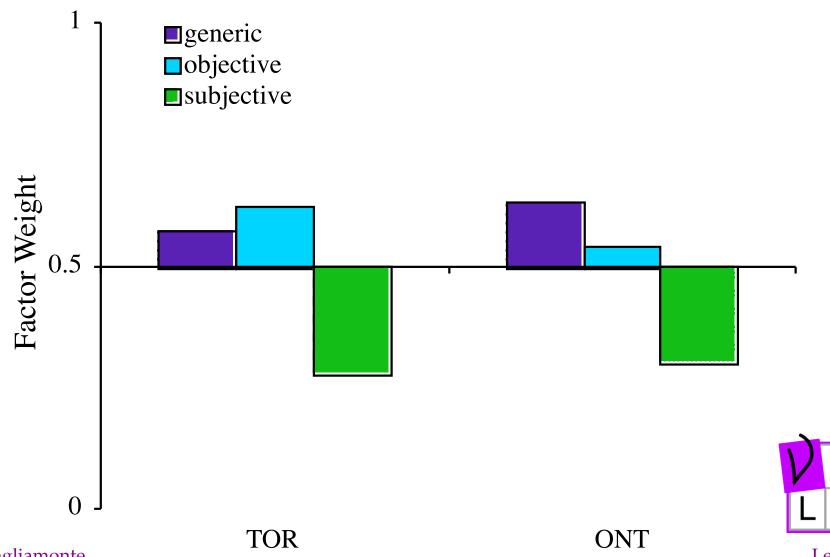


Have to in Ontario Towns

Corrected mean		.68			
Overall proportion	1	66.8			
Fa	ctor Weight	%			
Nature of the authority					
Generic	.63	78			
Objective	.54	69	J		
Subjective	.30	48			
Range	33				
Sex					
Female	[.55]	72			
Male	[.42]	58			
Age					
<29	[.64]	74			
30-59	[.48]	66			
>60	[.49]	67			
Education					
Post Secondary	[.50]	66			
Secondary	[.50]	67			



have to by type of subject — TOR vs. ONT



Observations

- *Have to* has the same patterns of use across all locations in Ontario
- The details of the constraints are preserved

* Transmission

The encroachment of *have to* on the Canadian deontic modality system has been a long-term change, slowly evolving as generational change does, since the onset of Canadian English.

Tagliamonte & Denis, 2014



Summary

- Deontic modality is marked by *have to* the majority of the time in the dialect data from the UK, US and CDA
- Separate developments in the UK and CDA have synchronized in the last 50 years
- **BUT** ... there are distinct semantic differences between the UK and Canada





- The reconfiguration of forms used for subjective may reflect social change
- Changes at critical juncture points:
 - ✤ just after the Civil War in the US
 - ✤ just after World War II in the UK
- * *Must* encoded a particular type of authority
 - Strong, imperative, authoritative, pragmatic
- May have led to the recent rise of *need to* for mitigated authority
 Nokkonen 2006



Only when we have the good fortune to seize ... a syntactic change as it is occurring will we be able to give a good solution to the transition problem, and provide a sound basis for other arguments about the evaluation and actuation of change

✤ Labov 1972: 323



Takeaway

- Deontic modality offers an ideal window on the nature of heterogeneous systems across world Englishes
- Maximal dimensions of contrast
- Importance of situating data in space and time
 - * When was the data collected?
 - At what point in the trajectory of change?
- Further insights into the nature of the probabilistic grammar



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