*Data and code available at https://osf.io/g4wpc/

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Background Language contact

- Many have theorized about the distinction between borrowings and one word code switches (i.e., nonce borrowings), typically distinguishing by frequency or linguistic intergration [6, 7, 10, 11]
- This distinction requires a strong theory of what a langauge is to begin with

Maritime provinces of Canada

- Where Acadian French is spoken as opposed to Quebec French [5]
- Unlike in Quebec, French is a clear minority language in the Maritime provinces [3, 5]
- English-origin features thus commonly appear in Acadian French [4, 9]

The use of *lol* generally

- In English, *lol* is often considered a discourse marker [1, 12]
- No work has been done on the use of English *lol* in French

Research Question

Does the lexical linguistic variable (lol) in French tweets vary according to detected community?

Methods Data

- Directed tweets from the Maritime provinces of Canada between Jan-Feb, 2017
- Network constructed using X tweets from Y users
- Communities detected using the Louvain algorithm [2] to find the maximum modularity Q [8]

Linguistic variable: Lexical (lol)

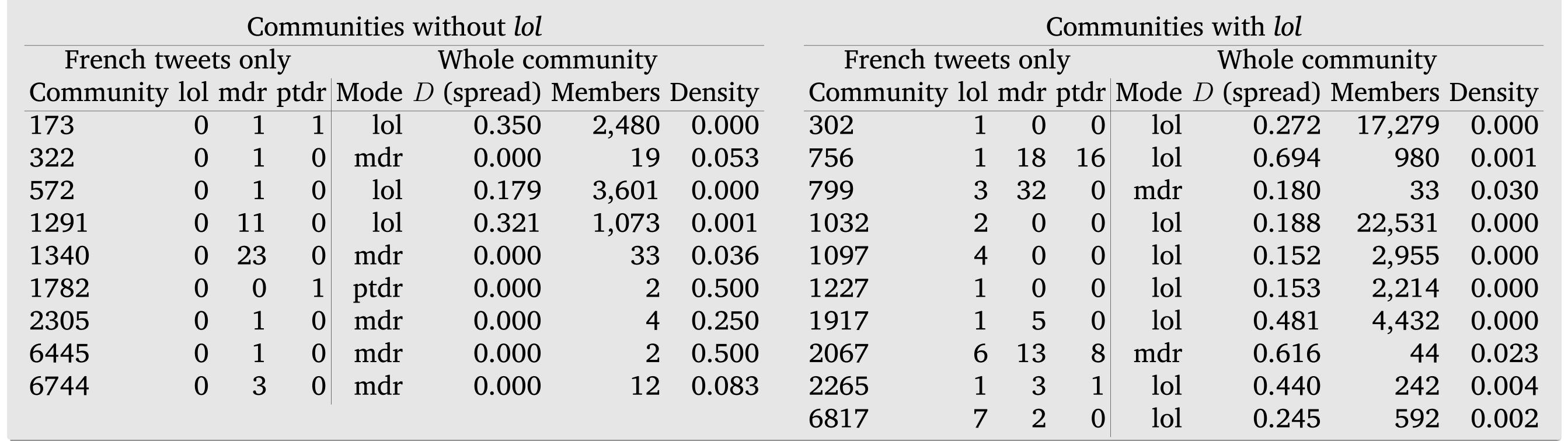
- As used in French tweets
- Variants include lol and its French equivalents mdr 'mort(e) de rire' and ptdr 'pété(e) de rire'

Independant variables

- Primary: Detected community
- Secondary: Time zone, province, city, part-of-speech

General results (Fisher's exact and Cramér's V)

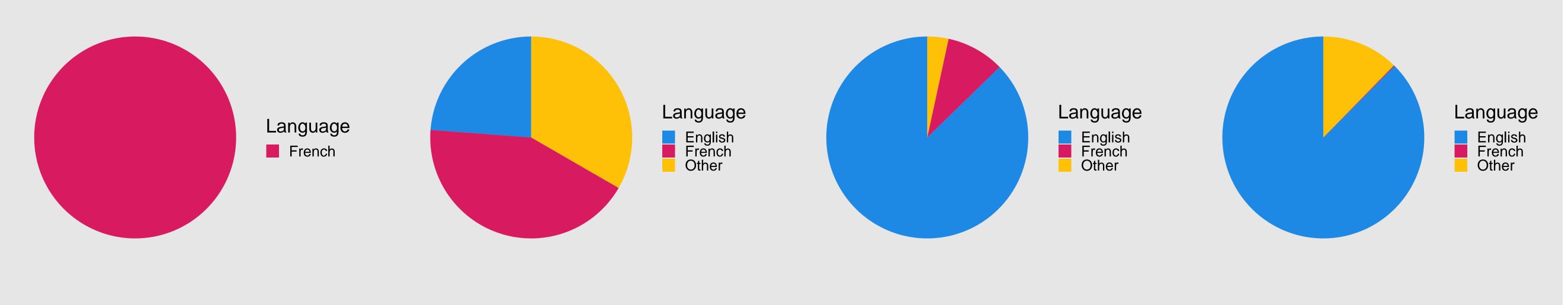
Detected community is significant ($P < 0.0005, V \approx 0.63$ compared to $P < 0.0005, V \approx 0.59$ for city and $P < 0.0005, V \approx 0.36$ for province)



Importance of community size

Only the smallest communities are French dominant; All communities with >1,000 members are English dominant

• Having even a moderate English presence leads to a mode of lol overall and usage of lol in French tweets (e.g., community 6817)



Community 1340 (smaller)

Community 6817 (bigger)

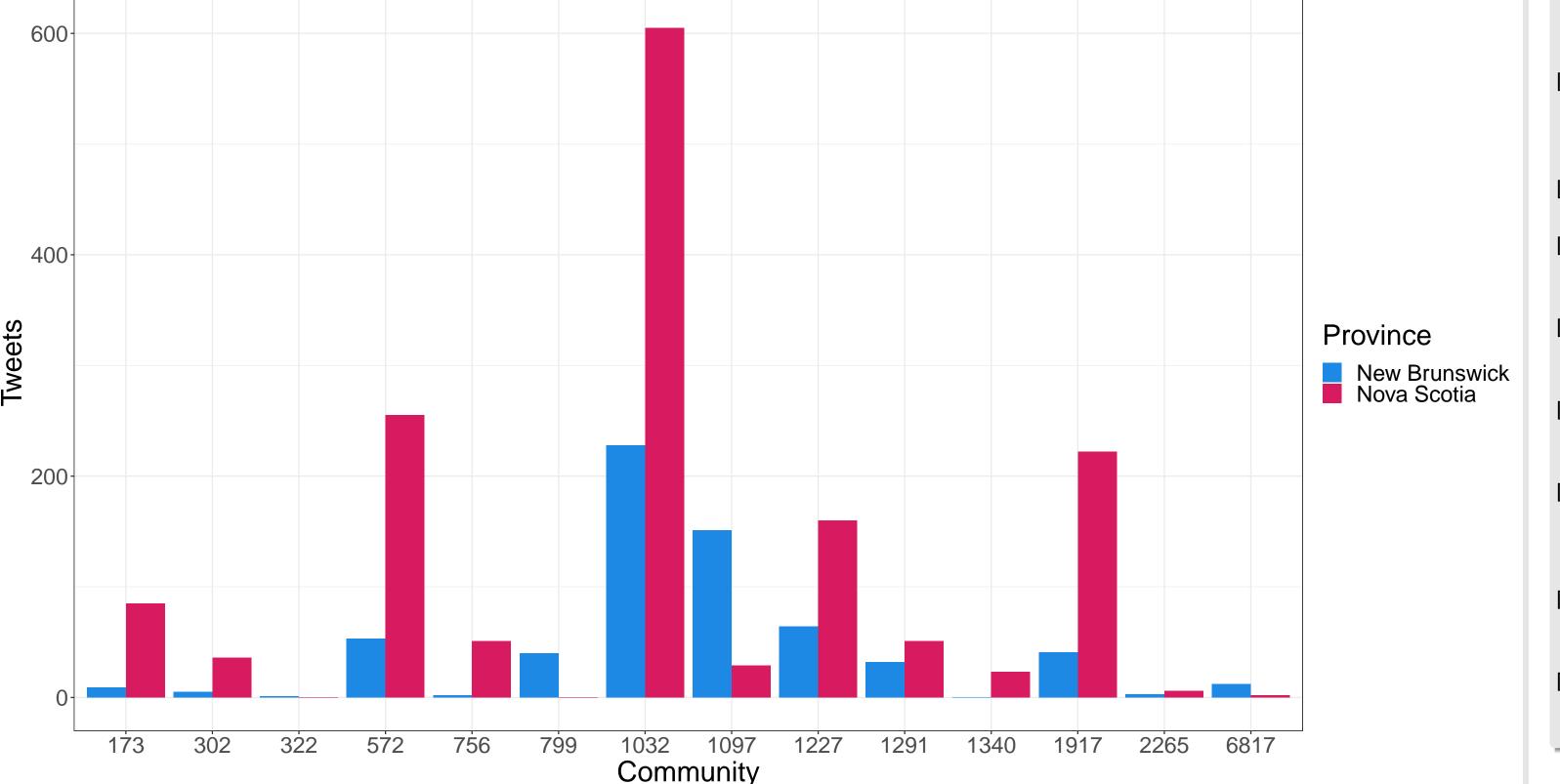
Community 1291 (bigger still)

Community 1032 (biggest)

The outlier The only French user of (lol) in community 1340:

In-degree = 0, out-degree = 50

There's a statistical relationship between community and province (P < 0.0005), though its far from exclusively one province per community



Conclusion

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The lexical variable (lol) as used in French tweets do vary according to detected community

• The higher the presence of English, the more likely the use of the variant lol

Discussion

In online communities, French can be locally dominant but otherwise a minority, just as in geographical Maritime communities

 This appears to impact the way (lol) is used from community to community

Some users produce only the variant lol in French tweets

- e.g., bloggercharles in the large, heavily English community 1097
- These users may not have *mdr* in their mental grammars

The methods used here highlight the importance of interactions more than other community concepts

- Detected communities are complementary to other concepts
- e.g., Detect communities first, then do an ethnography

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LOL on Twitter