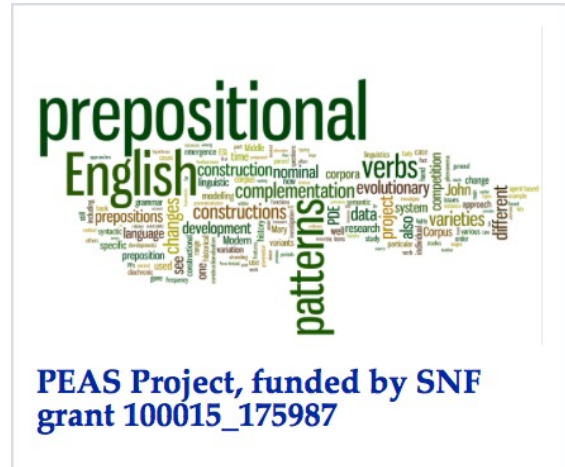




**KU LEUVEN**

## Marianne Hundt, Laetitia van Driessche and Dirk Pijpops

# Rescoping the theory and methodology of linguistic epicenters in World Englishes



# Motivation

- Corpus-based research provides evidence on convergence (or divergence)
- Usage-based evidence on epicentre influence requires diachronic data
- Corpus data only do not give us the whole picture (lack of information on attitudes, see Hundt 2013)
- Use complementary approach – Agent-Based Modelling (ABM): simulation of variation to predict variation *should* attitudes play an important role for epicentral influence

# Objectives

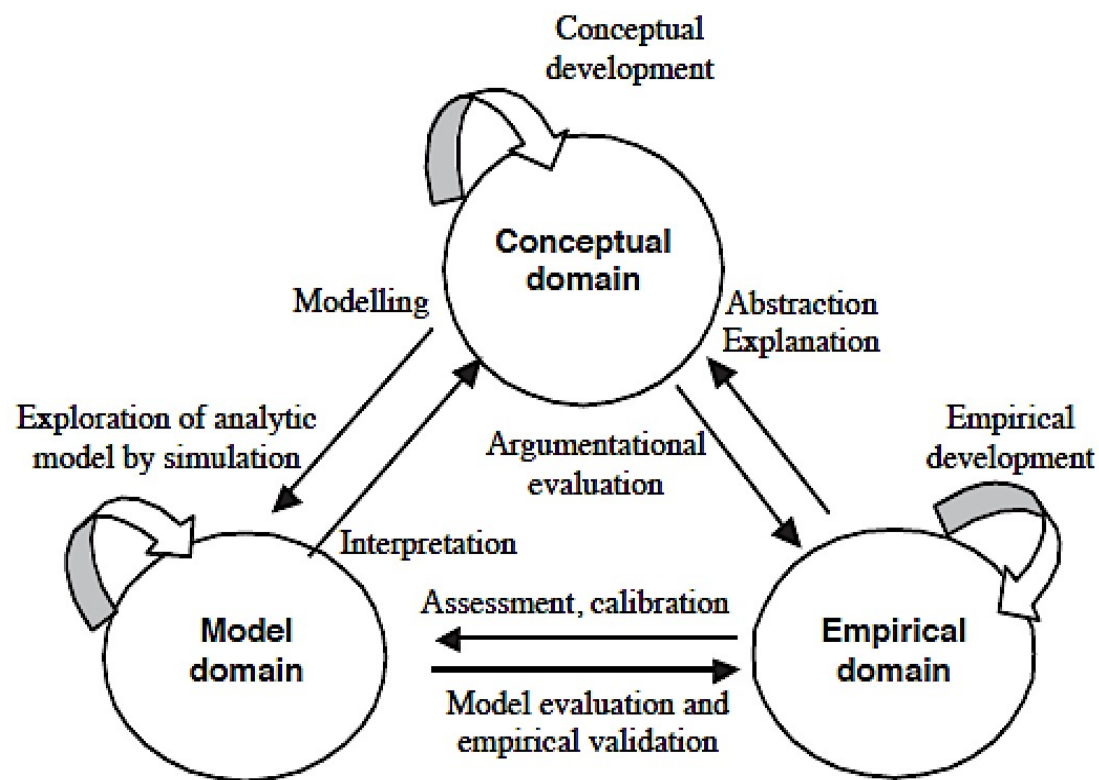
- Case study on verb complementation in two metropolitan varieties and two ESL
- Build agent-based model to gauge potential effect of attitudes vs. dialect contact
- Compare results of ABM with corpus data
- Feed results into theory on modelling epicentre in World Englishes

## Caveat

ABM does not aim at modelling the actual complexities of language users/speakers' choices (e.g. by including historical, cultural, individual factors)

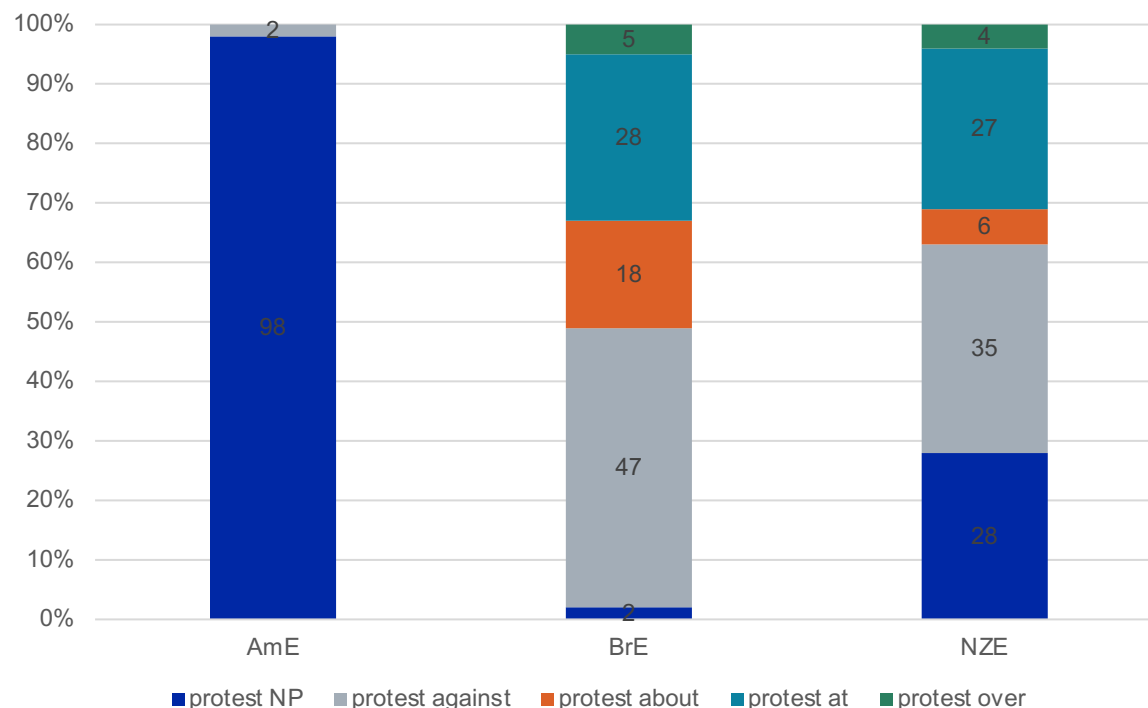
ABM adhere's to Occam's Razor: aim is to build a model that is as simple as possible while still simulating the mechanisms under scrutiny (Landsbergen, 2009: 18-19; van Trijp & Steels, 2012: 9)

# ABM – corpus data – theory



**Fig 1.** Relating simulation to theory and data  
(from Livet et al., 2014)

# Case study: ASCs with *protest* and *appeal*



(based on Hundt 1998; N = 100 per variety from the *Miami Herald* (US), the *Guardian* (GB) and the *Dominion/Evening Post* (NZ), respectively)

**Fig. 2.** Complementation of *protest* in Newspaper databases

# ESL varieties and the dynamics of WEs

Indian English (IndE) – with BrE as matrilect/traditional exonormative model

Philippine English (PhlE) – with AmE as matrilect/traditional exonormative model

- Acquisition of English as second language (education, online media)
- AmE at the top of the hierarchy (Mair 2013)
- Individual speakers differ in their attitude towards the historical matrilect / AmE

# Attitudes and ASCs

“It is often claimed that American English uses more words than are strictly necessary ... . However, it is interesting that complaints are just as common when an American innovation is in fact more concise, more economical than the traditional British form, as in *to protest* or *to appeal*, as opposed to *to protest against* or *to appeal against*. ... This inconsistency suggests that hostility to American usages may have less to do with the linguistic forms themselves than with a rather deeper dislike of the society and culture from which these forms derive.”

Gordon & Deverson (1989: 75f.)

# Research questions

- Do attitudes towards the matricles play a role in epicentre influence (shift from BrE to AmE ASC)?
  - Assumption that PhilE speakers are more conservative than AmE speakers in their ASCs (shift occurred in the second half of the twentieth century)
  - PP complements are structurally more explicit and therefore generally favoured by ESL speakers.
- Does lexical variation play a role in epicentral influence?
  - Does frequency have an influence on epicentral influence?
  - Does paradigmatic variation in the ASCs have an influence?



# Components of the model

- regional differences in the ASCs of *protest* and *appeal* (AmE prefers bare NP complement, BrE prefers PP complement, see Hundt 1998, Rohdenburg 2009);
- IndE and PhilE have different matrilects, i.e. speakers start off from different usage preferences related to (but not identical with) their matrilects;
- speakers are aware of the regional differences between BrE and AmE in the complementation of the two verbs and speakers in the ESL communities differ with respect to their attitudes towards AmE (some speakers are pro-Am, some are con-Am, some are neutral);
- speakers are exposed to BrE and AmE variants through media (news on the web); we take the differences in size of the two regional sub-corpora in NOW as suggestive, i.e. ESL readers are twice as likely to encounter the AmE than the BrE ASC.

# Three different models

Condition 1: There is no ongoing language change and the input from the matricles is stable.

Condition 2: Speakers in the two communities differ in their reading preferences in that con-Am speakers actively avoid American sources and thus get lower Am input.

Condition 3: In addition to the parameters under condition 2, there is ongoing language change such that BrE is slowly shifting towards AmE complementation patterns for *protest* and *appeal*; this is the 'global Americanisation' condition.

Implementation in Python (Laetitia van Driessche & Dirk Pijpops)

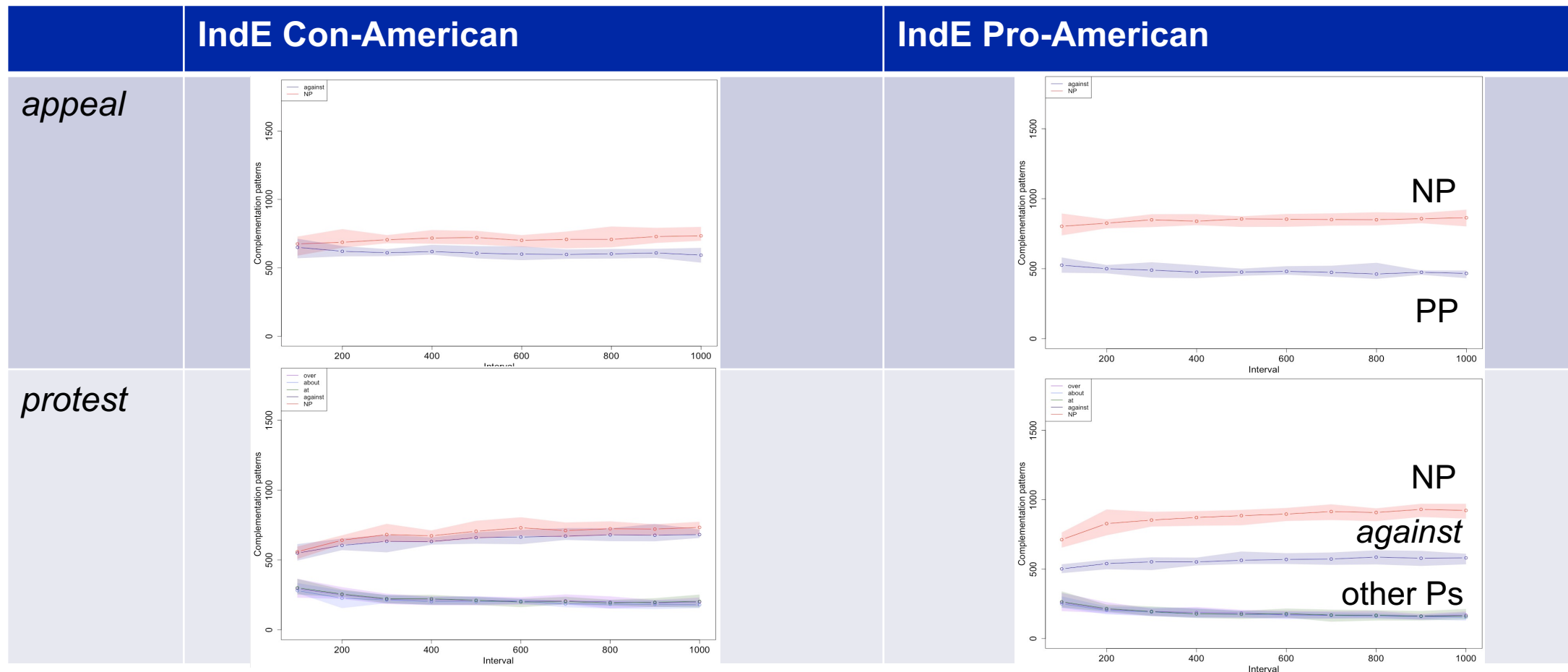


# Predictions

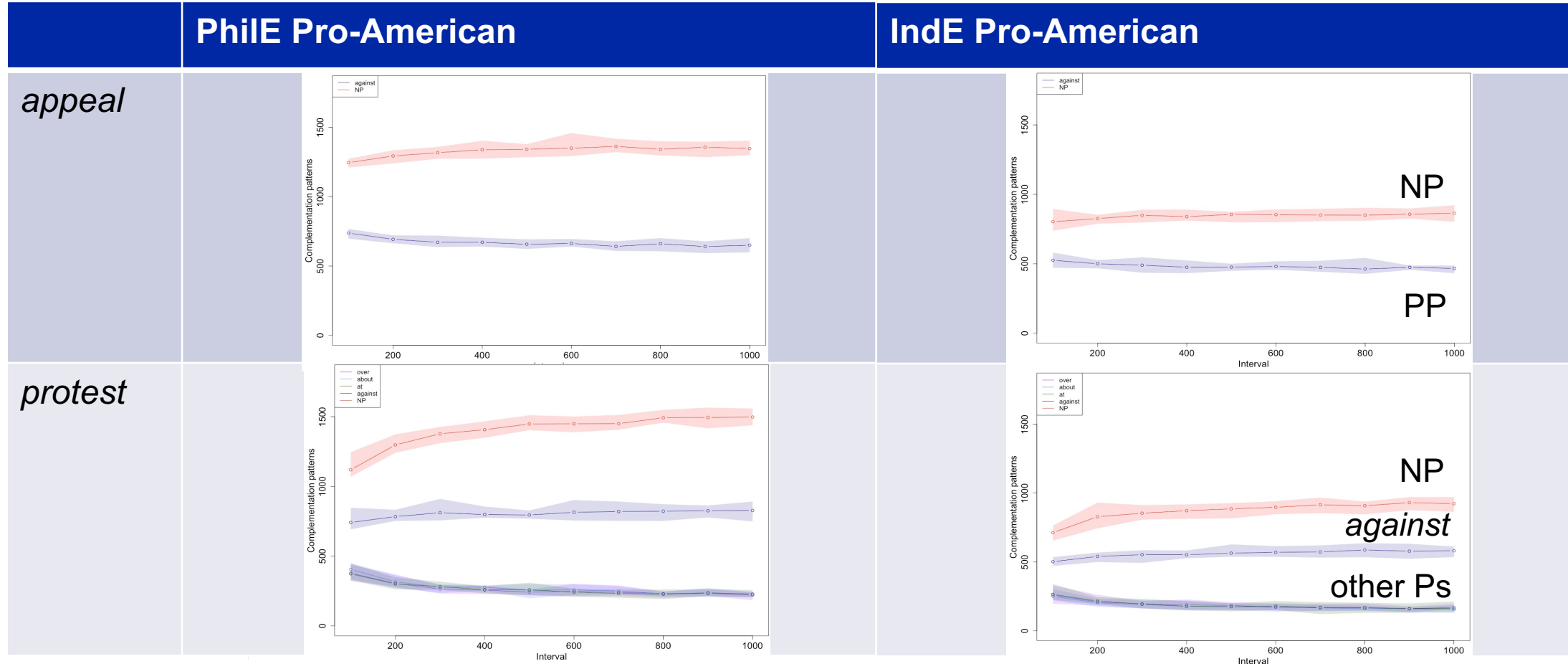
- Negative attitudes towards AmE will decrease epicentral influence for Indian agents
- PhilE agents will further converge on the AmE model
- *Protest* has a greater range of PPs => this will slow down epicentral attraction from AmE



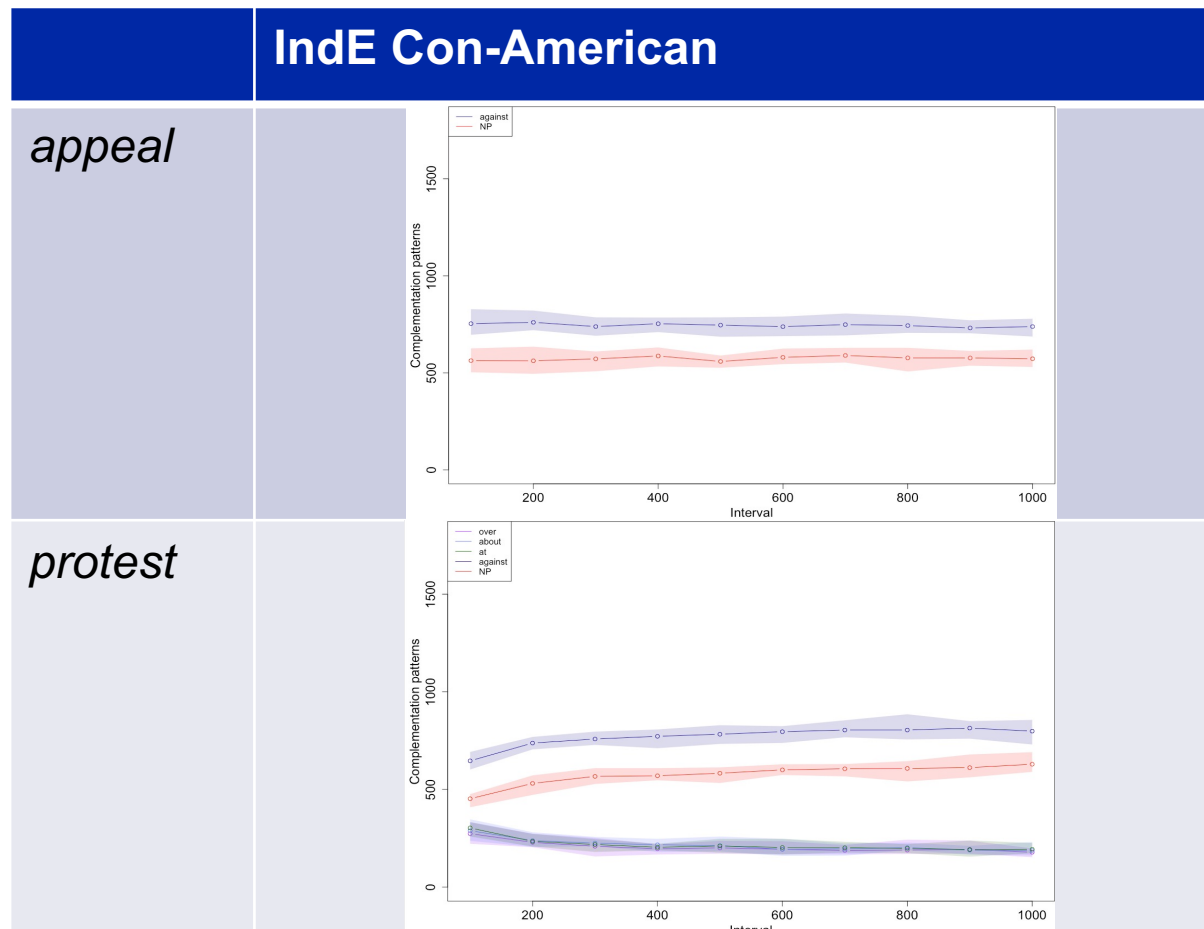
## Results of the simulation: stable matrilectal input



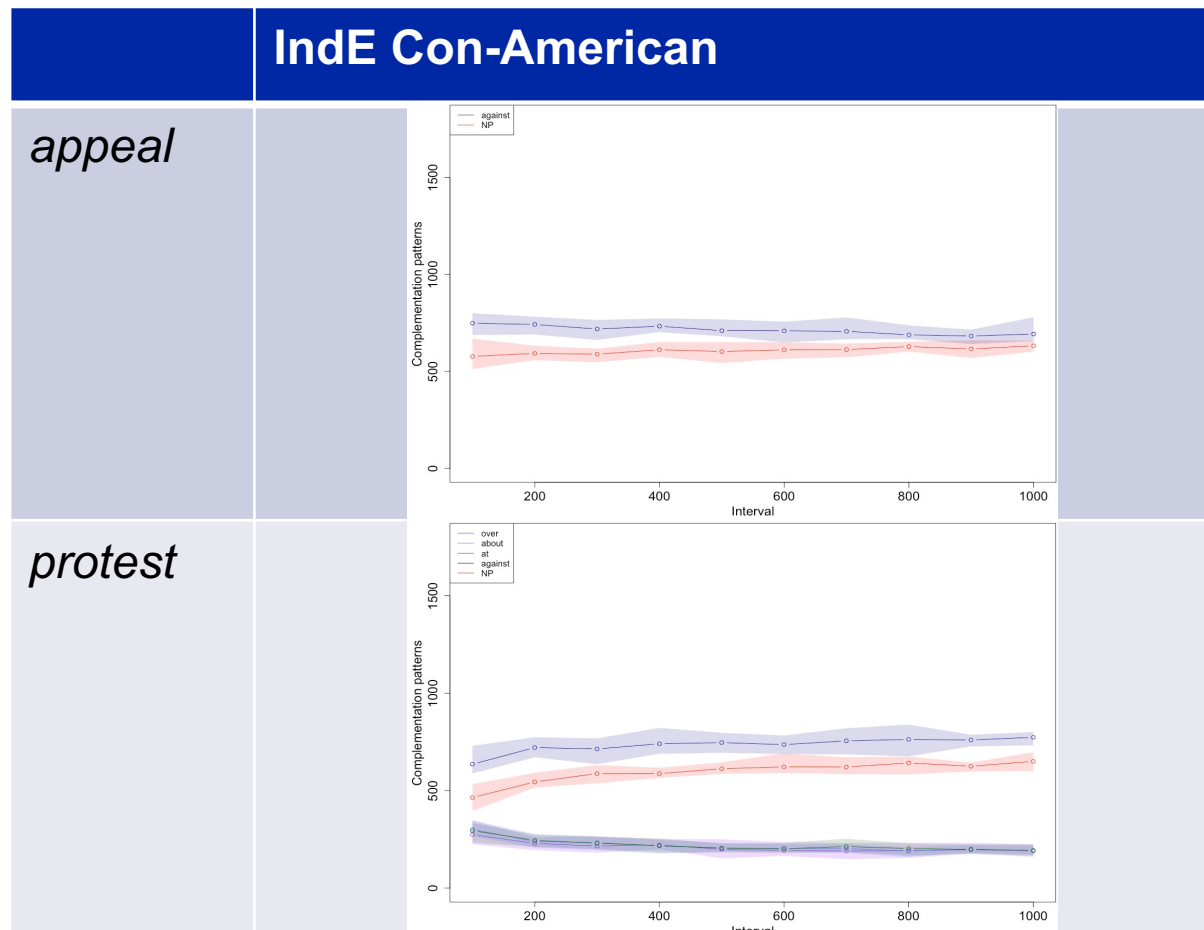
## Results of the simulation: stable matrilectal input



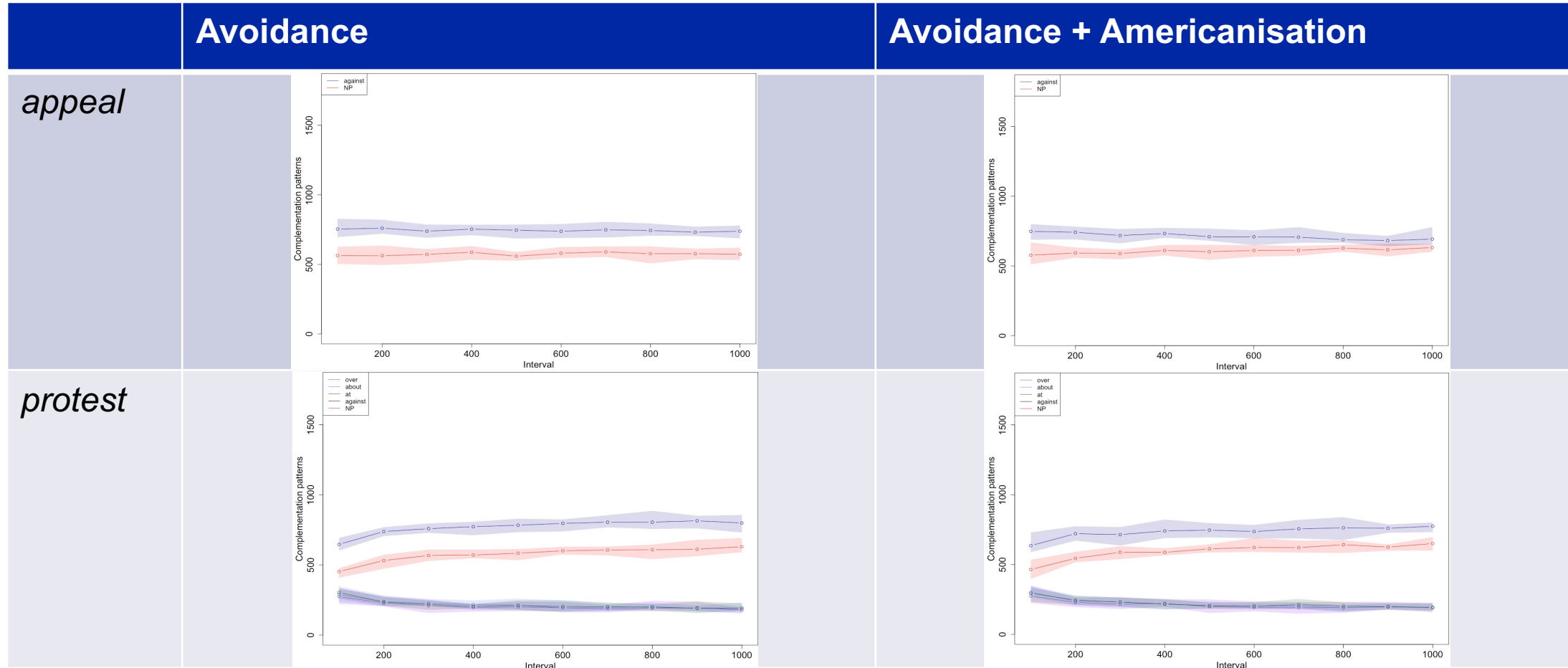
## Results of the simulation: avoidance



## Results of the simulation: avoidance + ongoing Americanisation



## Results of the simulation: condition 2 vs. 3 (con-American IndE)





# Results of the simulation

Condition 1: No ongoing change and stable matrilectal input

- NPs are preferred and **↑** over time (PhilE > IndE)
- PPs (*against*) **↓** for *appeal* and **↑** for *protest*

Avoidance (con-American Indian agents)

- PPs (*against*) are preferred, but there is a slightly higher **↑** for NPs

Avoidance + Americanisation (con-American Indian agents)

- *appeal*: PPs (*against*) are preferred, but **↓** ⇔ NPs **↑** , leading to convergence
- *protest*: NPs and PPs **↑** , but with a smaller difference in frequency than in condition 2

# Interpretation of the ABM

Prediction: Negative attitudes towards AmE decreases epicentral influence for Indian agents

- In all conditions (even strong avoidance of AmE sources), the American variant will become the preferred complementation pattern over time.
- A conservative attitude will not stop ongoing trends of Americanisation

Prediction: Philippine agents further converge on the AmE complementation pattern

- but PhilE closely resembles AmE from the outset – epicentral influence???

Prediction: *protest* has a greater range of PPs => this will slow down epicentral attraction from AmE

- In all PP complements, *against* is the dominant preposition
- The other PPs do not play a discernible role in slowing down the epicentral pull from AmE

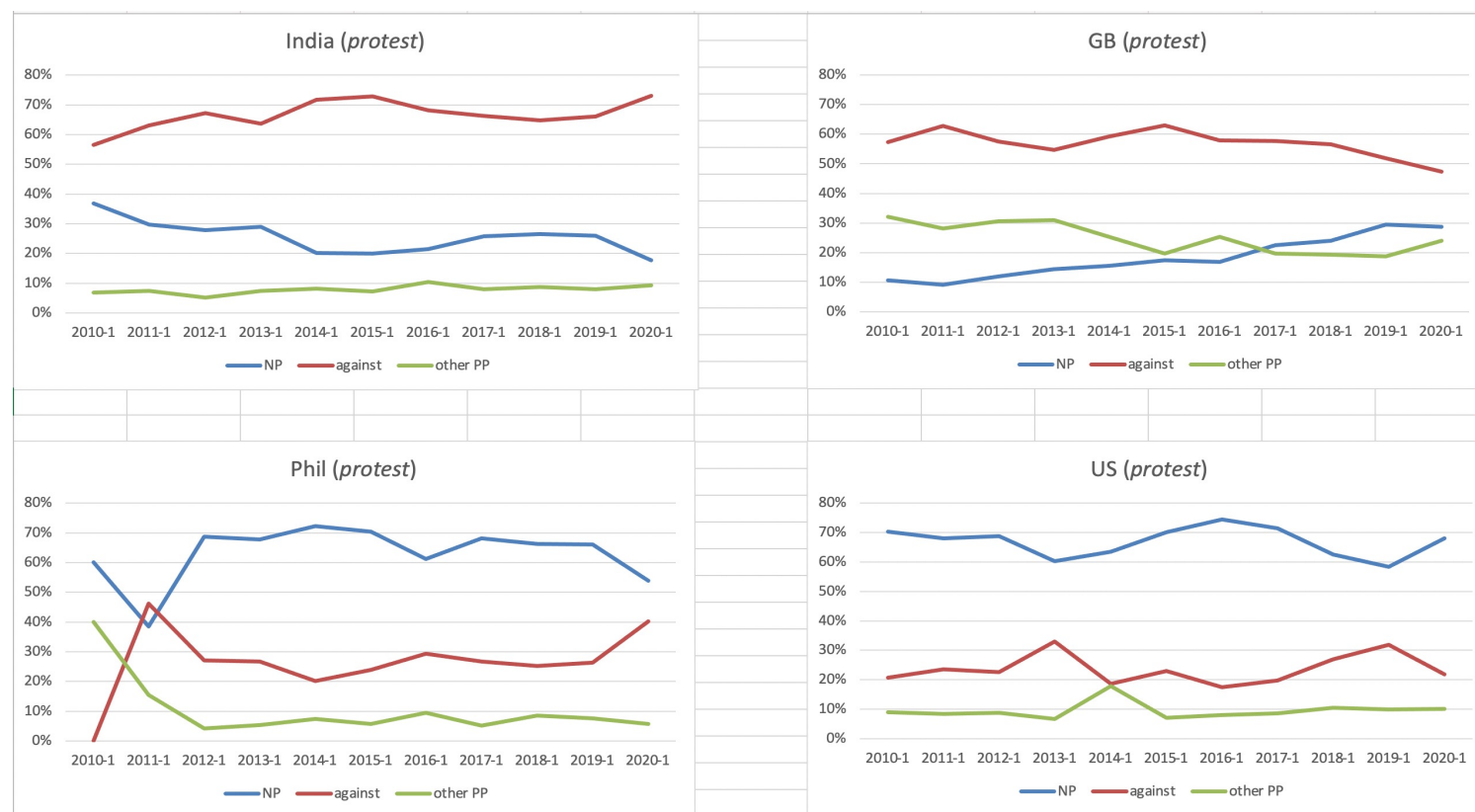
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# Corpus evidence

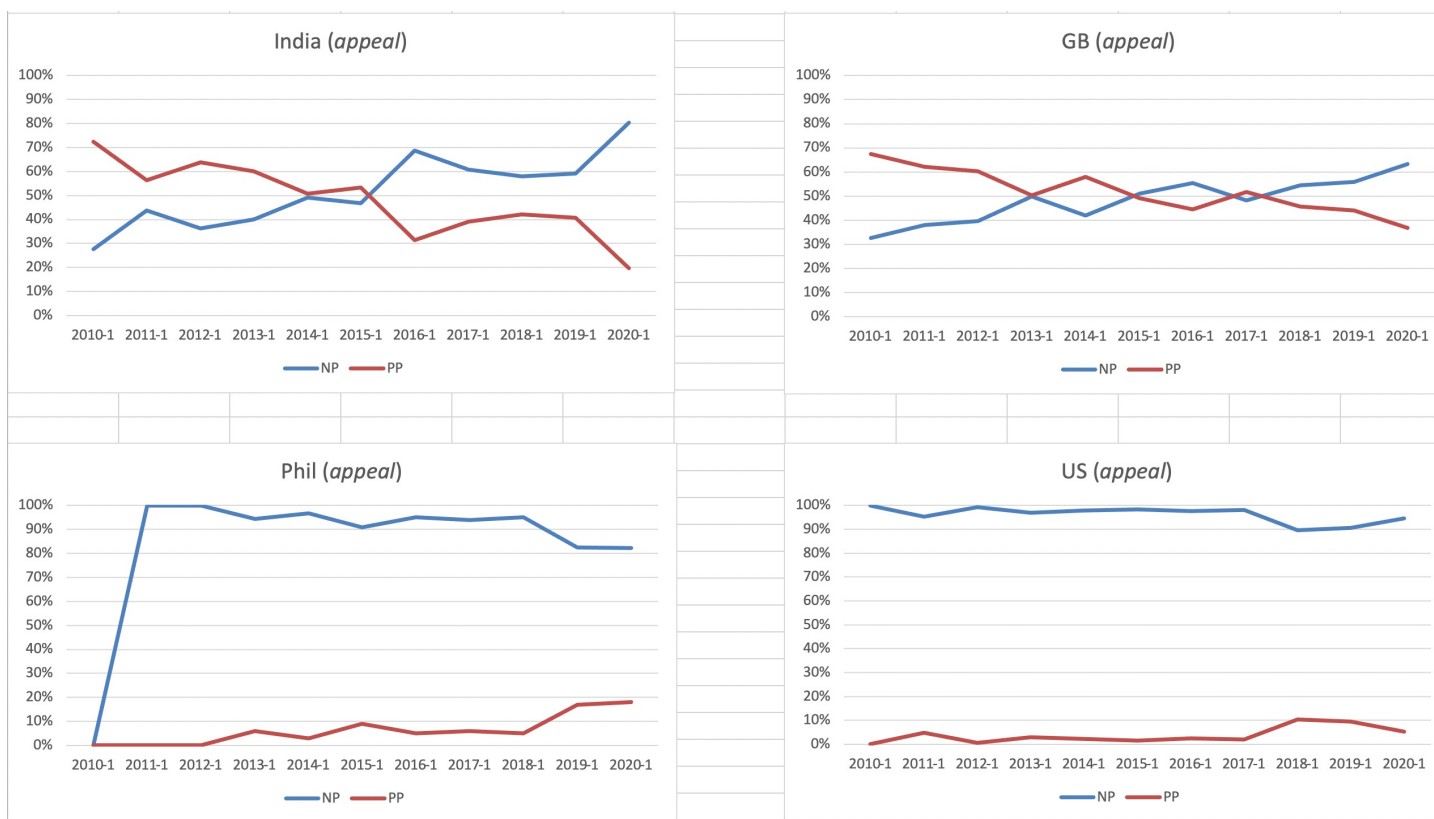
Data from the News-on-the-Web (NOW) corpus > investigate micro-changes in the recent past (2010-2021)

## Search for VERB followed by THE|A or PREPOSITION

# Complementation for *protest* in NOW



# Complementation for *appeal* in NOW



# Conclusion

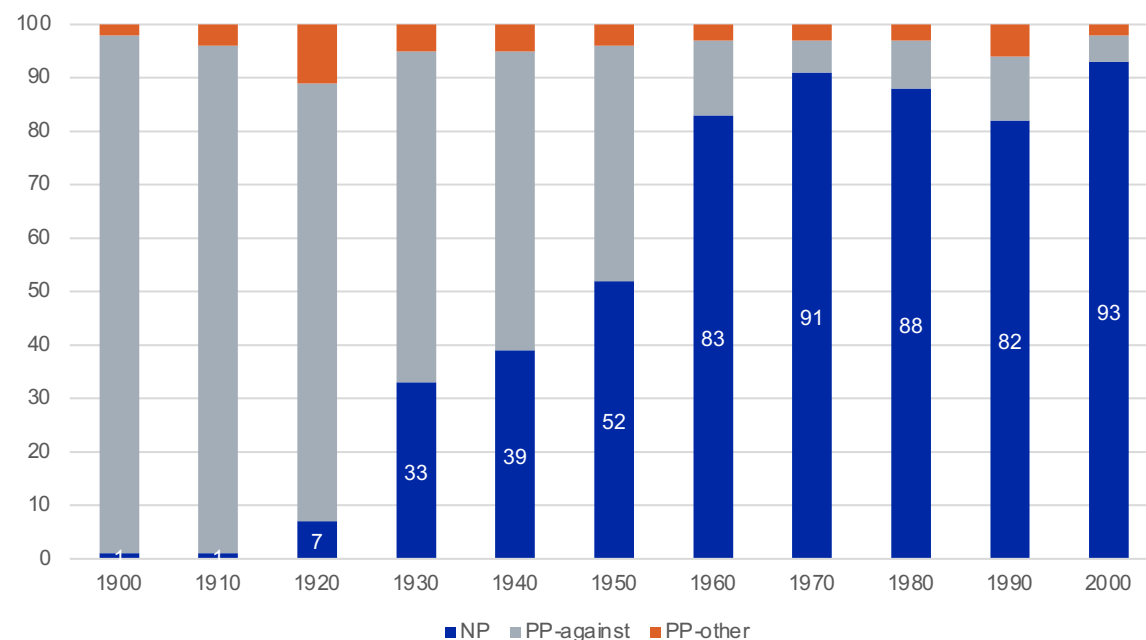
- ABM: negative attitudes towards a variety that is assumed to have epicentral ‘pull’ on speakers usage is unlikely to play out as a significant factor in language change, not only under conditions of stable variation but also with agents actively avoiding the pattern they dislike.
- Simulation of the impact that ‘attitude’ would have on epicentral influence is a useful backdrop for the interpretation of corpus data. Having established that con-Am attitudes get drowned out by pressure from input and general drift towards AmE complementation patterns in our model, we stand on safer grounds to postulate that the diverging trends we see in the complementation of *protest* in IndE and PhilE are unlikely to be the result of negative attitudes towards AmE as an epicentre.

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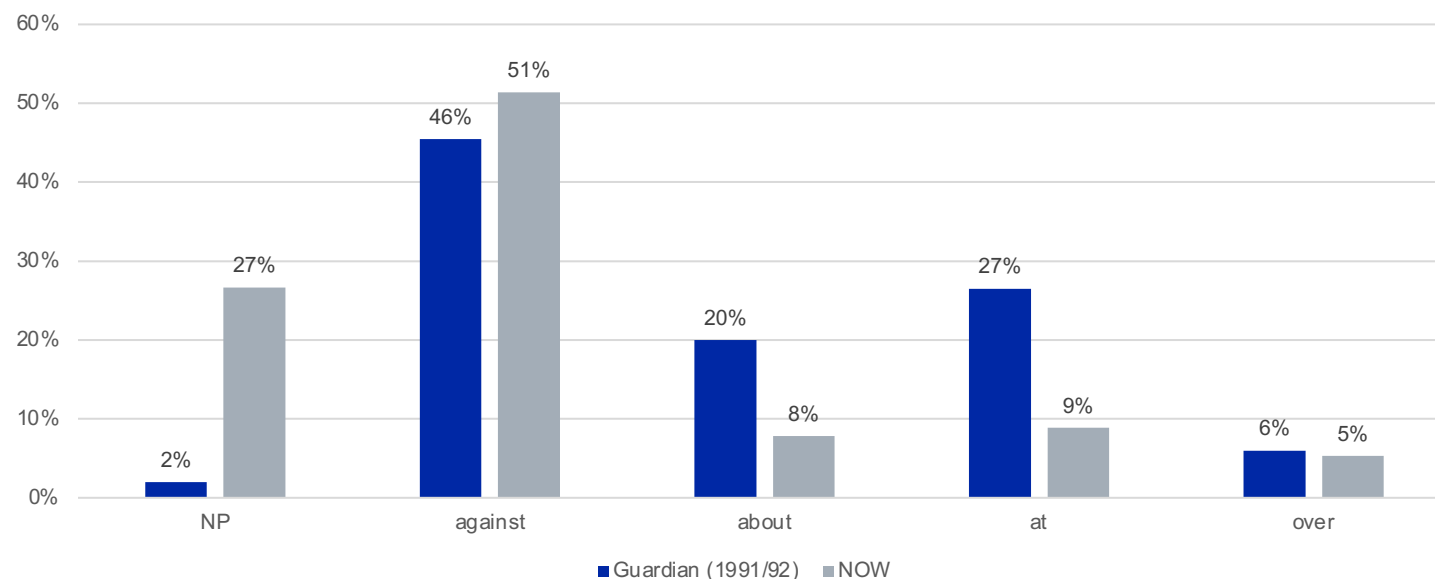
# Diachronic trajectory for *protest* in AmE



**Fig. A-1:** Complementation of *protest* in COHA (set of 100 random relevant hits per decade).

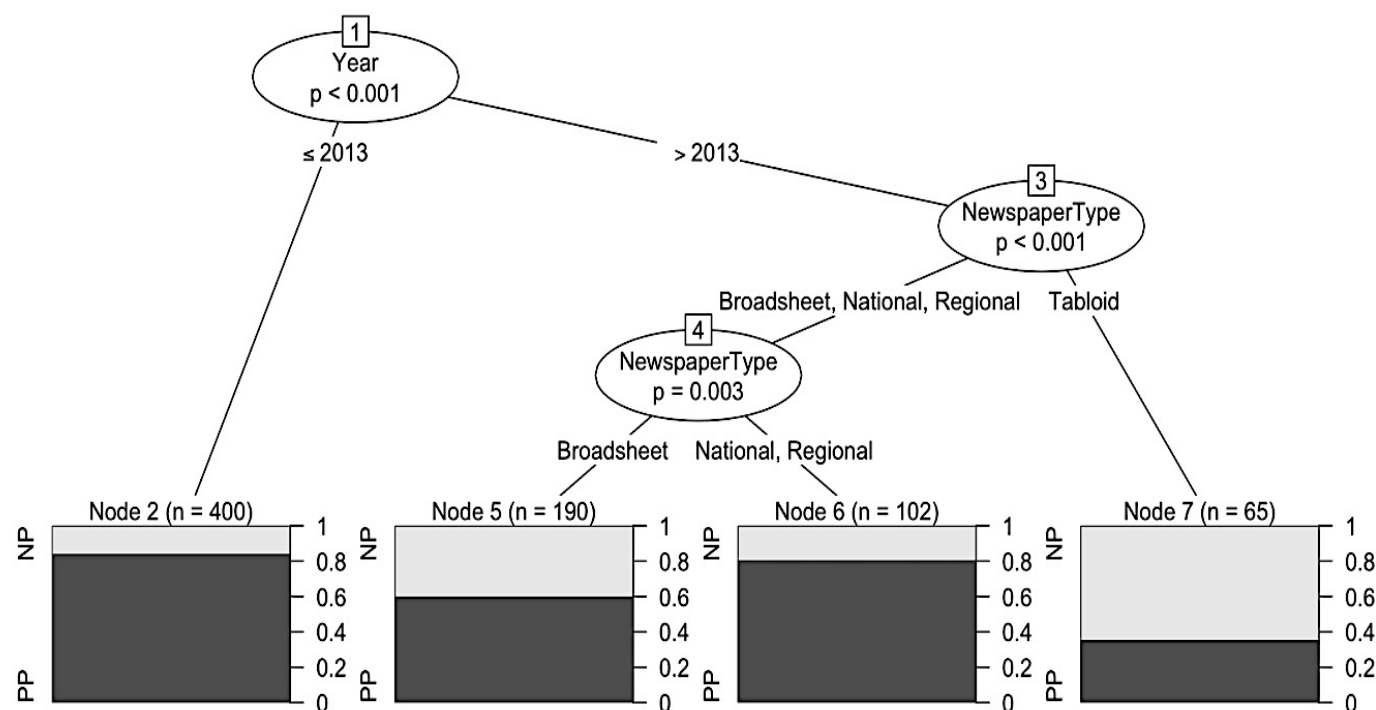


# Constructional Americanization?



**Fig. A-2:** Complementation of *protest* in BrE: 1990s *Guardian* (N=400) vs. 2010+ NOW (N=757).

# Constructional Americanization?



**Fig. A-3:** Complementation of *protest* in BrE: 1990s *Guardian* vs. 2010+ NOW (Somers2 C = 0.583).