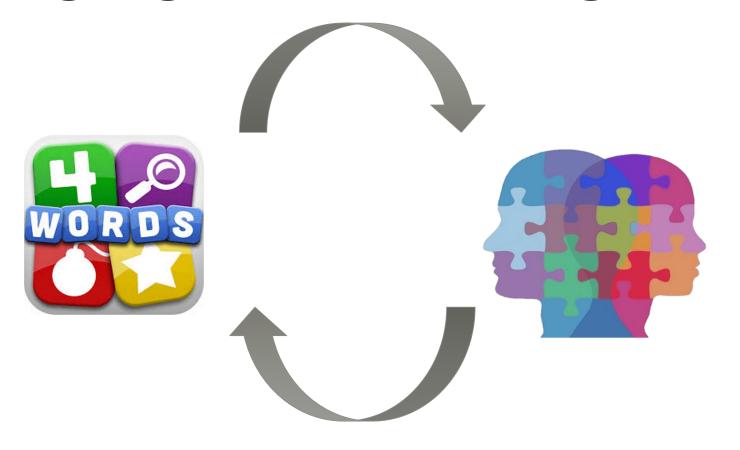
Language and social cognition



https://gsr-lab.com/



The Grammar of Social Relations Lab

SERIAL TRANSMISSION PARADIGM (LYONS & KASHIMA, 2003)

describe more behaviors that are consistent,

versus inconsistent, with stereotypes

CATE IS
ITALIAN.
SHE IS LOVES
SHARING
FOOD WITH
FRIENDS, SHE
DOES NOT
LIKE NOISE.



CATE IS ITALIAN.
SHE COOKS FOR
HER FRIENDS,
TYPICALLY PIZZA
OR SPAGHETTI. SHE
IS VERY WARM AND
AFFECTIONATE. SHE
IS OUTGOING AND
EXPRESSIVE.

THREE METAPHORS OF LANGUAGE



 VESSEL in which thoughts are encapsulated and transmitted from one mind to another



■ LENS which focuses cognition on certain aspects of the world and away from others



BAROMETER reveals a communicator's cognition to the audience

LINGUISTIC ABSTRACTION

Linguistic Category Model (Semin & Fiedler, 1988); Nouns (Carnaghi et al. 2008)

ABSTRACT



Nouns





Interpretative action Verbs

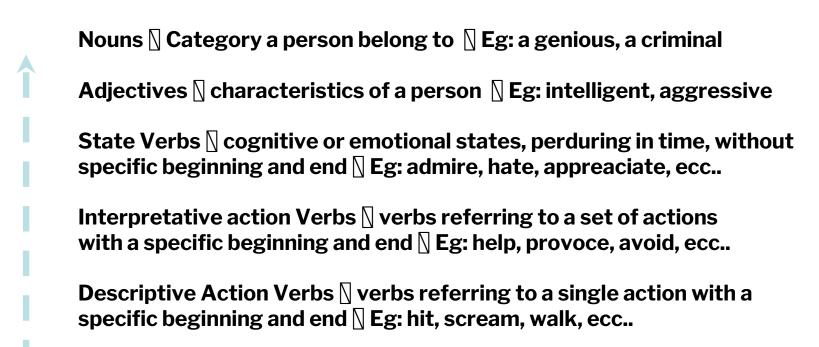
Descriptive Action Verbs

CONCRETE



LINGUISTIC ABSTRACTION

Linguistic Category Model (Semin & Fiedler, 1988); Nouns (Carnaghi et al. 2008)



LINGUISTIC INTERGROUP BIAS (Maass, 1999) Abstraction -> focus to stability



+ve ingroup behaviors & -ve outgroup behaviors

If communicators use abstract language to describe a person"s negative behavior and concrete language for their positive behavior, they are also seen as having negative attitudes and intentions (Douglas & Sutton, 2006)



generalization of positive behaviors to the entire ingroup

generalization of negative behaviors to the entire outgroup

Nouns (vs. adjectives) Carnaghi et al. 2008



- Promote essentialization
- facilitate stereotype-congruent inferences



- inhibit incongruent ones
- Inhibit alternative classifications.
- Transmit prejudice



Reynaert and Gelman (2007) he has baxtermia", "he is baxtermic", "he is a baxtermic" Illness permanence------

Agency a core dimension of human functioning

- goal-orientation and the ability to plan and **execute** goal achievement (Bakan, 1966; Bandura, 2001; Abele & Wojciszke, 2014).
- close to "competence" dimension of stereotype content (competence in the STM)_ one of the Big Two (Abele, 2021)
- ->well-being (e.g., Adler et al., in press; Helgeson, 1994; McAdams et al, 1996; Woike & Polo, 2001).

Agency a core dimension of human functioning

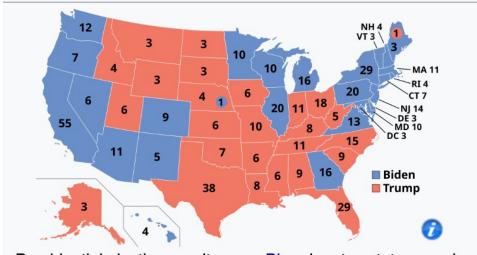
- "socioculturally mediated capacity to act" (Ahearn, 2001; p. 112)
- Essential component of a **group** functioning:
 - collective agency (Shteynberg et al., 2021) as shared subjectivity that is directed toward some object of our attention, desire, emotion, belief, or action.
 - collective action agentic language can mobilize voters (Formanowicz et al., 2021; 2024)

Agency as a mobilizing language

2020 United States presidential election







Presidential election results map. Blue denotes states won by Biden/Harris and red denotes those won by Trump/Pence.

Numbers indicate electoral votes cast by each state and the District of Columbia.



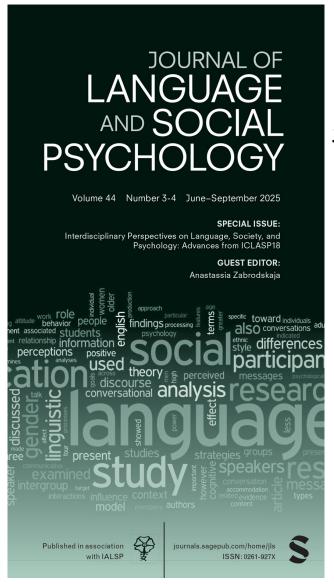


Peter Navarro releases 36-page report alleging election fraud 'more than sufficient' to swing victory to Trump washex.am/3nwaBCe. A great report by Peter. Statistically impossible to have lost the 2020 Election. Big protest in D.C. on January 6th. Be there, will be wild!

1:42 AM December 19, 2020



"Statistically impossible to have lost the 2020 Election. Big protest in D.C. on January 6th. Be there, will be wild!"

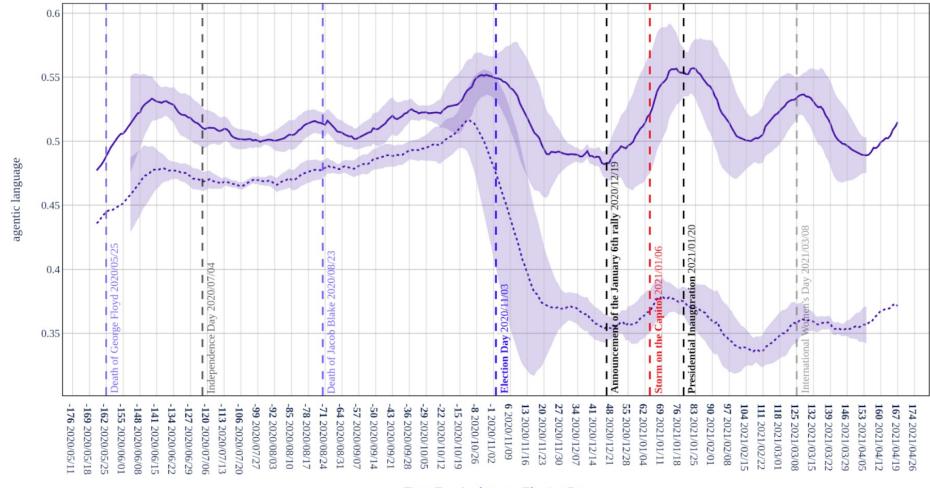


The Role of Agentic Language in Mobilizing Election Candidate Support

Jan Nikadon^{1,2}, Caterina Suitner³, Tomaso Erseghe⁴, Lejla Džanko^{1,4}, Michał Olech⁵, Paweł Jurek⁶, and Magdalena Formanowicz¹

- 2020 U.S. Congressional Elections, spanning 180 days before and after Election Day, and before the Capitol Hill riots.
- 495,252 messages posted by Democratic and Republican candidates on Twitter
- Agentic language

Nikadon, Jan, et al. "BERTAgent: The development of a novel tool to quantify agency in textual data." *Journal of Experimental Psychology: General* (2025).



Time (Days) relative to Election Day

In sum...

Greater agency was observed in tweets by politicians who won elections.
Temporal analysis showed increased agency leading up to key political events:

- Planned events (e.g., Election Day)
- Sudden disruptions (e.g., Capitol riots)

Understanding the **dynamics of agency** helps clarify its role in **political communication on social media**.

ORIGINAL ARTICLE



Riot Like a Girl? Gender-Stereotypical Associations Boost Support for Feminist Online Campaigns

Marta Witkowska¹ · Marta Beneda² · Jan Nikadon¹ · Caterina Suitner³ · Bruno Gabriel Salvador Casara² · Magdalena Formanowicz¹

Feminist collective actio

Agency trap: AGENCY is central for CA but violates prescriptive norms of being nice and nurturing, which could lead to social derogation (Radke et al., 2016).

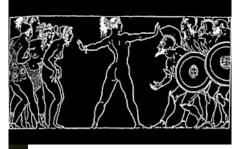
GOAL: examining the degree to which social support for feminist collective action varies in relation to violations of gender stereotypes and of agency dynamic







❖Increase public awareness & share their stories (e.g., #YesAllWomen, #WhyIStayed, #SayHerName, #BeenRapedNeverReported, #MeToo)



Active resistance (e.g., #SexStrike, #IWillGoOut, #CzarnyProtest, #SlutWalk);

Sex Roles https://doi.org/10.1007/s11199-024-01502-0

ORIGINAL ARTICLE



Riot Like a Girl? Gender-Stereotypical Associations Boost Support for Feminist Online Campaigns



Study 1 (subsample 482,000 tweets) #sexstrike and #metoo



 \mathbb{X}

Our reproductive rights are being erased.

Until women have legal control over our own bodies we just cannot risk pregnancy.

JOIN ME by not having sex until we get bodily autonomy back.

I'm calling for a #SexStrike. Pass it on.

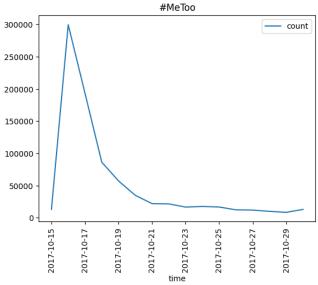
-> less communal and more agentic (Pietraszkiewicz et al., 2019)

-> less popular (28.000 vs. 38 million)

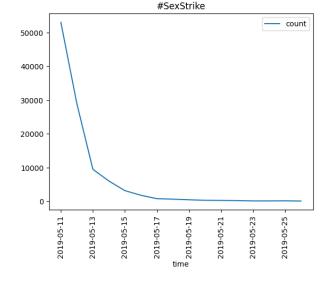


Temporal analysis: data was collected two weeks after the first use of hashtag/the movement gaining prominence









■ Dates: 16.10.2017-30.10.2017

Total tweet count: 833,049

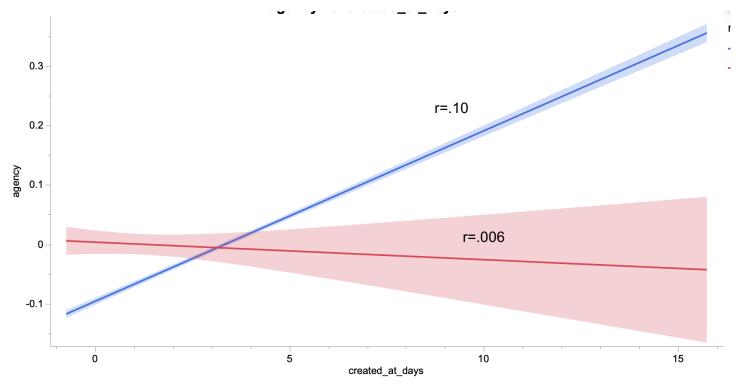
Dates: 11.05.2019-26.05.2019

Total tweet count: 105,259



Temporal analysis: AGENCY

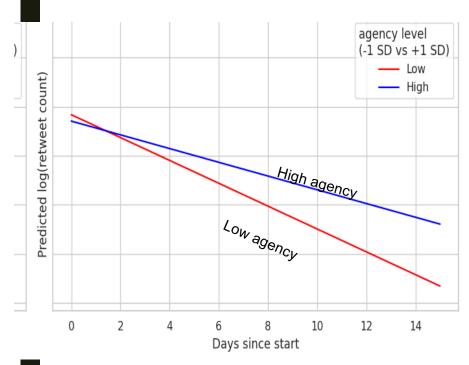


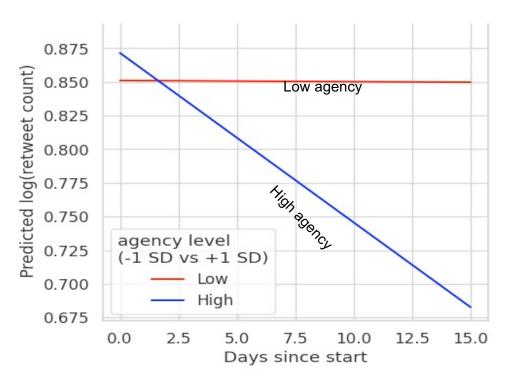




Temporal analysis: RETWEET COUNT







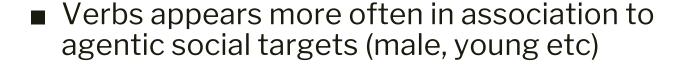
Verbs as carriers of AGENCY













Verbs enhance persuasiveness of a message

Research suggests that verbs are linguistic markers of agency, a fundamental dimension in social perception.

- Studies have found that verbs are associated with higher agency compared to other grammatical categories like nouns and adjectives (<u>Formanowicz et al.</u>, 2017; Pietraszkiewicz & Formanowicz, 2023; Weis et al., 2022).
- This association extends to natural language use, with verb usage positively correlating with agentic word use (Pietraszkiewicz & Formanowicz, 2023).
- Furthermore, verbs demonstrate a stronger implicit association with the self compared to nouns, suggesting a triad between self, agency, and verbs (Weis et al., 2022).
- The agency-verb link has practical implications for communication effectiveness. Messages framed using verbs rather than adjectives have been found to increase message effectiveness across various contexts, including NGO corporate campaigns and trigger action orientation (Formanowicz et al., 2021; 2025).
- Verbs and concrete langauge are associated with authors and readers perceptions of texts' persuasiveness (Formanowicz eta al., 2024)

These findings highlight the meta-semantic effects of verbs and underscore the importance of grammatical choices in social cognition and communication outcomes.

Generic masculine

- linguistic convention in English has long had it that masculine terms such as "man", "his", and the collective noun "Man", can be used without reference to gender.
- fireman
- native language rather than mother tongue, police officers rather than policemen, humans rather than men to refer to human beings)

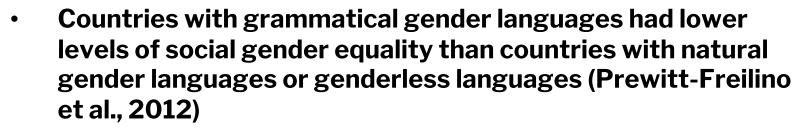
Generic masculine



 masculine generic inhibits the availability of female examplars (Stahlberg et al., 2007).



 the ratio of male to female pronouns reflected the status of women in the United States (1.2 million U.S. books, 1900– 2008; Google Books database; Twenge et al., 2012)





participants with modern sexist beliefs were found to use more traditional, gender-unfair language (Swim et al., 2004).

STOP

DEROGATORY LABELS: FAG IS NOT A SYNONYMOUS OF GAY

"the overhearing of derogatory labels would automatically activate negative feelings and beliefs associated with the group in question" (Greenberg and Pyszczynski, 1985, p.156)

people may infer that prejudice is normative when they hear others using hate terms.

-> self-perpetuating cycle of prejudice



REAPPROPRIATION OF DEROGATORY LABELS

Galinsky, Hugenberg, Groom, & Bodenhausen, 2003

a stigmatized group has the possibility to renegotiate the connotation of that word, transforming it from a negative expression to an empowering one.