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## Spontaneous Ideological Inferences

Overview **Files** Wiki **Components** Links **Analytics Comments** 0

A. Hypotheses - Essential elements **Description of essential elements** Describe the (numbered) hypotheses in terms of directional relationships

Updates **▼** 

between your (manipulated or measured) variables. 1. We expect reaction times of correct classifications of implied probes (i.e., ideological probe words implied by but not included in the sentence) to be slower than of probes that were not implied in the sentence (but rather in another sentence of the task). For interaction effects, describe the expected shape of the interactions.

No interaction effects are expected. If you are manipulating a variable, make predictions for successful check variables or explain why no manipulation check is included. We are manipulating whether the probe word was implied in the sentence or not.

Because the effect of this manipulation does not hinge on the participants' interpretation of the experimental conditions, no manipulation check is needed. Recommended elements **Recommended elements** 

A figure or table may be helpful to describe complex interactions; this facilitates correct specification of the ordering of all group means. No files selected

For original research, add rationales or theoretical frameworks for why a certain hypothesis is tested. No response

If multiple predictions can be made for the same IV-DV combination, describe

what outcome would be predicted by which theory. No response

B. Methods - Essential elements **Description of essential elements** Design

List, based on your hypotheses from section A:

Independent variables with all their levels a. whether they are within- or between-participant b. the relationship between them (e.g., orthogonal, nested).

Probe Type: implied vs. implied-other (within-participant factor) List dependent variables, or variables in a correlational design Mean response latency of correct responses (additionally, error rates are used as DV in exploratory analyses)

No covariates or moderators are included **Planned Sample** If applicable, describe pre-selection rules. The sample will include people Prolific users, a. whose nationality is German b. whose first language is German

Third variables acting as covariates or moderators.

c. who currently reside in Germany

Justify planned sample size

no further termination rules.

We will exclude data of participants,

a. who did not complete the probe recognition task,

c. who self-report not being fluent in German,

b. who withdraw their consent to data analysis after full debriefing,

scale from 1 to 10) or rate their own data to be unfit for analyses

d. whose recognition performance is < 60% in the probe recognition task

e. whose average response times are slower than two standard deviations of the

f. who self-report not having followed the instructions conscientiously (5 or lower on a

**Exclusion Criteria** 

sample mean

**Procedure** 

Describe data collection termination rule.

d. who are 18 years or older e. who have not participated in any of this study's pre-tests or studies from our group using the same experimental paradigm Indicate where, from whom and how the data will be collected. Participants will be recruited via the online-platform Prolific.co according to the pre-

small effect of d = .20 using a t-test. To attain a test-power of 1 –  $\beta$  = .80 at a significance level of  $\alpha$  = .05, we aim at collecting valid data of N = 156 participants. Given an expected exclusion rate of 5-10% (e.g., Kruse & Degner, 2019), we will collect data of N = 170 participants. If applicable, you can upload a file related to your power analysis here (e.g., a protocol of power analyses from G\*Power, a script, a screenshot, etc.). power analysis.png

Data collection will be terminated when the planned sample size is reached. There are

selection rules. Demographic data will be collected via Qualtrics whereas the Probe Recognition Paradigm is programmed in PsychoJS and will be hosted on Pavlovia.org.

Because the newly developed stimulus material has not yet been tested, we target a

Describe anticipated specific data exclusion criteria. For example: a) missing, erroneous, or overly consistent responses; b) failing check-tests or suspicion probes; c) demographic exclusions; d) data-based outlier criteria; e) method-based outlier criteria (e.g. too short or long response times).

Describe all manipulations, measures, materials and procedures including the order of presentation and the method of randomization and blinding (e.g., single or double blind), as in a published Methods section. Procedure We employ a Probe Recognition Paradigm (e.g., Todd et al., 2011). Participants are told that they are participating in a study on text comprehension and instructed to read and memorize a series of short statements. They are presented 48 statements (24 targets,

24 filler, see stimuli.xlsx) in a randomized order. The statements are presented in the center of the computer screen. The duration of presentation is based on statement length, with an assumed reading rate of 200 words per minute, resulting in a range from 2.7 to 12.3 seconds. Each statement is followed by a blank screen for 250 ms, a

fixation cross for 500 ms, and a randomized sequence of four probe words, each of which is presented until a response is made (with a post response pause of 100ms).

statement or not by pressing [J] or [F], respectively (see instructions.xlsx). They are told that they should respond as quickly as possible and that it is very important that they

make few mistakes. When participants make a mistake, an error message appears (red

Participants perform a practice block containing 5 statements. After the practice block, they receive individualized feedback on their error rate. If their error rate is higher than 5%, they are told to try and make less mistakes even if they take more time to respond.

letter "X" presented for 1000 ms). After presentation of all four probe words and an

inter-trial interval of 500ms, the next statement is presented.

Participants are instructed to indicate whether the probe word appeared in the

If their error rate is at 5% or lower, they are told to carry on as before. The test block is split into two parts of equal length, giving the participants the opportunity to pause. After completion of the test blocks, participants again receive feedback on their error rate. They then rate each label with regards to its valence on a five-point scale ranging from very negative to very positive, with regards to how much they identify with it on a fivepoint scale ranging from not at all to very strongly, and with regards to how often they use it on a five-point scale ranging from never to very often (see ratings.xlsx). The order of the three ratings is counterbalanced across participants. Next, they are asked to state their political attitudes using the one-item Left-Right Self-Placement scale (Breyer, 2015), their interest in politics using a one-item scale (Zentralarchiv für empirische Sozialforschung (ZA) & Zentrum für Umfragen, Methoden und Analysen (ZUMA) e.V., 2014), their satisfaction with Germany's political system using the German Satisfaction with the Political System Short Scale (SPS; Dentler, Bluemke, & Gabriel, 2020), their gender, and age. They are asked to rate on a 10-point scale how diligently they followed the instructions, whether they think their data is fit for analyses

(yes or no), and whether they had any assumptions about the exact purpose of the

for their informed consent for data storage and analysis. The whole study takes

set of 150 pretested behavior descriptions. Pretests have shown these behavior

approximately 25 minutes.

Materials

Target items.

Filler items.

unlikely.

**Procedure** 

No response

etc.)

experiment. Ultimately, they are debriefed about the purpose of the study and asked

As target statements we selected 24 label-implying behavior descriptions from a larger

descriptions to be associated with ideological labels: In an open-ended questionnaire the percentage of identical or synonymous ideological labels generated in response to

the behavior descriptions ranged from 30 to 95%. On a rating scale ranging from -2 (very badly) to 2 (very well) a different sample rated the labels as being able to explain the described behaviors mostly well or very well, with average values ranging from 0.69 to 1.94. The target statements were chosen to minimize semantic overlap between the different ideological labels. Labels are either adjectives or nouns. Probe words. We provide 4 probe words for every target statement, namely (1) the implied label (implied condition), (2) a non-synonymous label implied by another target statement (implied-other condition), (3 and 4) two filler words that either occur in the target statement or in another target-statement. Thus, across the entire experiment, every label appears twice in the probes of the target statements. We chose the implied-other probes such that their word length was similar to the respective implied probe.

The target statements do not contain ideological labels. They do therefore exclusively

included 24 additional filler statements. Each filler statement and its respective probes

experiment. Every label appears two times in the probes of the filler statements and

negative responses is balanced across different word types (nouns, adjectives, verbs, names). Therefore, neither word type nor the property of being an ideological label or

Because ideological labels appearing in the statements almost always reappear as probes, participants could theoretically learn to encode whether ideological labels

appeared in the statement. Every time they encode that a statement does not include

consequently four times across all the probes. Moreover, the number of affirmative and

warrant negative responses to label probes. To prevent strategic responding, we

explicitly include at least one ideological label. This assures that the number of affirmative and negative responses is balanced across all label probes across the

not can be used to infer the correct response.

Recommended elements

**Recommended elements** 

hypotheses section. Include:

of any publication.

rationale for each covariate used, if any;

rationale for each covariate used, if any;

conclusion, including prior values or distributions.

the relevant variables and how they are calculated;

rationale for each covariate used, if any;

conclusion, including prior values or distributions.

conclusion, including prior values or distributions.

No covariates will be used.

No other techniques are used.

**Second Prediction** 

No response

scripts, etc.).

No

No response

**Further Predictions** 

hypotheses section. Include:

**Fourth Prediction** 

hypotheses section. Include:

**Third Prediction** 

hypotheses section. Include:

the relevant variables and how they are calculated;

ideological labels, they could categorically reject the implied or implied-other probes solely on grounds of them being ideological labels, without relying on a semantic representation of the statement. This could potentially decrease the observed effect size. However, because we do not expect the concept of ideological labels to be spontaneously employed by participants, we deem this rather unlikely. Additionally, because for each statement the ideological label probes warrant either only affirmative or only negative responses, participants could theoretically learn to repeat their last label response for upcoming label probes of the same statement, provided that they are confident in their response. This again could potentially decrease

the observed effect size. However, this too would only occur if participants

spontaneously employed the concept of ideological labels, which we deem rather

Set fail-safe levels of exclusion at which the whole study needs to be stopped, altered, and restarted. You may pre-determine what proportion of excluded

If applicable, you can upload any files related to your methods and procedure here (e.g., a paper describing a scale you are using, experimenter instructions,

participants will cause the study to be stopped and restarted.

stimuli.xlsx instructions.xlsx ratings.xlsx C. Analysis plan - Essential elements **Confirmatory Analyses** 

Describe the analyses that will test the first main prediction from the

The mean response latency of correct responses serves as the dependent variable.

participant (for by-participant analyses) or item (for by-item analyses), we will compute mean response latencies of the correct responses. We will use an individual cut-off of M+2\*SD for slow responses and the log-transformation in our main analysis. Because

there are no conventions regarding outlier correction and transformations, we follow a

transformation) and report each combination's effects on the results in the supplement

recommendation by Krieglmeyer & Deutsch (2010) and employ a multiverse analysis

using different cut-off criteria (no cut-off, 2500 ms, 2000 ms, and 1500 ms) and

transformations (no transformation, a log-transformation, and an inverse

For each combination of experimental condition (implied vs. implied-other) and

the statistical technique; We will test the hypothesis using a one-tailed dependent samples t-test. each variable's role in the technique (e.g., IV, DV, moderator, mediator, covariate); Probe type: IV Mean response latency: DV

if using techniques other than null hypothesis testing (for example, Bayesian

statistics), describe your criteria and inputs toward making an evidential

Describe the analyses that will test the second main prediction from the hypotheses section. Include: the relevant variables and how they are calculated; No response the statistical technique; No response each variable's role in the technique (e.g., IV, DV, moderator, mediator, covariate); No response

if using techniques other than null hypothesis testing (for example, Bayesian

Describe the analyses that will test the third main prediction from the

statistics), describe your criteria and inputs toward making an evidential

the statistical technique; No response each variable's role in the technique (e.g., IV, DV, moderator, mediator, covariate); No response

if using techniques other than null hypothesis testing (for example, Bayesian

Describe the analyses that will test the fourth main prediction from the

if using techniques other than null hypothesis testing (for example, Bayesian

Describe the analyses that will test any further (main) predictions from the

each variable's role in the technique (e.g., IV, DV, moderator, mediator, covariate);

statistics), describe your criteria and inputs toward making an evidential

statistics), describe your criteria and inputs toward making an evidential

the statistical technique; No response each variable's role in the technique (e.g., IV, DV, moderator, mediator, covariate);

rationale for each covariate used, if any;

conclusion, including prior values or distributions.

the relevant variables and how they are calculated;

the relevant variables and how they are calculated; No response the statistical technique;

if using techniques other than null hypothesis testing (for example, Bayesian statistics), describe your criteria and inputs toward making an evidential conclusion, including prior values or distributions. No response Recommended elements

rationale for each covariate used, if any;

**Recommended Elements** 

Method of correction for multiple tests.

No response The method of missing data handling (e.g., pairwise or listwise deletion, imputation, interpolation). No response Reliability criteria for item inclusion in scale.

Specify contingencies and assumptions, such as:

No response assumption is violated.

No files selected Final questions Has data collection begun for this project?

Optionally, upload any files here that are related to your analyses (e.g., syntaxes,

The (estimated) start and end dates for this project are start: 22.02.2022 end: 25.02.2022 Any additional comments before I pre-register this project

Carsten Sander and Juliane Degner Description

**Contributors** 

Pre-Registration in Social Psychology (van 't Veer & Giner-Sorolla, 2016): Pre-Registration

**Associated project** 

osf.io/xgp2j

Registration type

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**Date registered** February 22, 2022 Date created February 22, 2022

Category Project **Publication DOI** No publication DOI **Subjects** Psychology

Social and Behavioral Sciences

Social Psychology **Affiliated institutions** This registration has no affiliated institutions License CC-By Attribution 4.0 International **Tags** 

political polarization

spontaneous inferences

social perceptions

Citation osf.io/cpy5z ▼

AURU

No response Anticipated data transformations. Assumptions of analyses, and plans for alternative/corrected analyses if each If upon visual inspection the differences of mean correct response latencies between the two probe types appear severely non-normal, a Wilcoxon signed-rank test will be performed instead of the dependent sample t-test.

No, data collection has not begun If data collection has begun, have you looked at the data?

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