

ManyLabs 5

Testing pre-data collection peer review as an intervention to increase
replicability

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Day



Today's Focus

- Replication Success: A priori agreement?
- Better: A priori determination of conditions for replications?
- Before starting: Please don't tweet about this project.

ManyLabs Projects

- 5 ManyLabs projects (3 currently published)
- Initially, replications: low power.
- ManyLabs: Pre-registration, data sharing, higher power.
- Replication across contexts: As close as possible.

ManyLabs5

Outline of today's specifics

- 10 replications from the Reproducibility Project: Psychology (OSC, 2015)
- Original authors flagged concern; 1 was statistically significant in replication.
- Revised protocol and received approval from original authors.
- Tested RP:P + Revised Protocol
- Illustrate with Foerster et al. (2008) replication
- Report on ML5 projects that have been completed.

Original Study

Foerster et al. (2008)

Aggression

Board	Violence
Attack	Radio
Murder	Roof
Brutal	Hatred
Clock	Newspaper
Bread	Bread
Malicious	

g h j k l i u z t b f q h j k r i
h j k l f g h j k o d f g h j j k
q v d g h f b n m a d f g b g h u
u i u d f q h k r v b n x m n f
f o k j f u i x s d v d f e v f g
g l h r a d i o f q h j k a e r e
r n f l s d f q h u i d i u e
g e k l s d f q h u i d i u e
f e q h k r g a h
f e q h k r g a h
f G u i o e d a a f g h j h k r g
h q b g h i j l m u r d e r t e u
u i r f g u t c v b n m e t r d u
r t u f g d a e r t j h k l r k j
q f t j h f g c l o c k j k o k h
q j a o i r a e d f h j k l o k l
j k l j k i i o u z f r t z f v g
q h j k i m a l i c i o u s g h i
q h j k l a e r t z t a t t a c k

Control

Board	Radio
Roof	Clock
Clock	Newspaper
Bread	Bread
Teapot	Calendar
Colorful	Barge
Barge	Chair
Cup	

g h j k l i u z t b f q h j k r i
h j k l f g h j k o d f g h j j k
q c d g h f b n m a d f g b g h u
u o i u d f g h k r v b n r m n f
f l k j f u i x s d v d f e v f g
g o h r a d i o f g h j k a e r e
g r k j l s d f g h u u i d i u e
r f f h u o i o p o g h d b h
g u g h p e r f g a h
f l g h o c a f j e i r o
f g u o c a f j e i r o
h q t g h i j l o z c u p r t e u
u e f g u t c v b n m e t r z u
r t a f d e r t i h k l r k
g f p i h f g c l o c k j k o k h
g j o o i r a e d f h j k l o k l
i k t i k l i o u z f r t z f v g
g h j k i c a l i e n d a r f g h j
g h j k l a e r t z t u c h a i r

Global, Local, Control



Beth the Roommate
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Please answer the questions on the next page when you have finished reading.

Detected interaction effect: $F(2, 76) = 21.57, p < .0001$
(partial $\eta^2 = .36$; Cohen's $d = 1.5$)

Replication Study

RP:P - Reinhard (2015)

Board	
Violence	
Attack	
Radio	
Murder	
Roof	
Brutal	
Hatred	
Clock	
Newspaper	
Bread	
Malicious	
g h j k l i u z t b f q h j k r i	
h j k l f g h j k o d f g h j j k	
q v d g h f b n m a d f g b q h u	
u i u d f q h k r v b n x m n f	
f o k j f u i x s d v d f e v f g	
g l h r a d i o f q h j k a e r e	
g e k l s d f q h u i d i u e	
r n f g d h p o o d h h	
g c d h k d a a f g h j h k r g	
f e a h k d a a f g h j h k r g	
h q b g h i j l m u r d e r t e u	
u i r f g u t c v b n m e t r d u	
r t u f g d a e r t j h k l r k j	
g f t j h f g c l o c k j k o k h	
g j a o i r a e d f h j k l o o k l	
j k l j k l i i o u z f r t z f v g	
g h j k i m a l i c i o u s g h i	
g h j k l a e r t z t a t t a c k	

Aggression

Board	
Radio	
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Clock	
Newspaper	
Bread	
Teapot	
Calendar	
Colorful	
Barge	
Chair	
Cup	
g h j k l i u z t b f q h j k r i	
h j k l f g h j k o d f g h j j k	
q c d g h f b n m a d f g b q h u	
u o i u d f q h k r v b n x m n f	
f l k j f u i x s d v d f e v f g	
g o h r a d i o f q h j k a e r e	
g r k j l s d f g h u u i d i u e	
r f f h u o o i o p o g h d b h	
g u g h p o o r f g a h	
f l g h p o o r f g a h	
f g u o o c o a a f g h j h k g g	
h q t g h i j l o z c u p r t e u	
u i e f g u t c v b n m e t r z u	
r t a f d e r t i h k l r k	
g f p i h f g c l o c k j k o k h	
g j o o i r a e d f h j k l o o k l	
i k t i k l i o u z f r t z f v g	
g h j k i c a l i e n d a r f g h j	
g h j k l a e r t z t a t t a c k	

Control

Global, Local, Control



Detected interaction effect: $F(2, 65) = .87, p = .426$
(partial $\eta^2 = 0.026$; Cohen's $d = .32$).

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Criticism

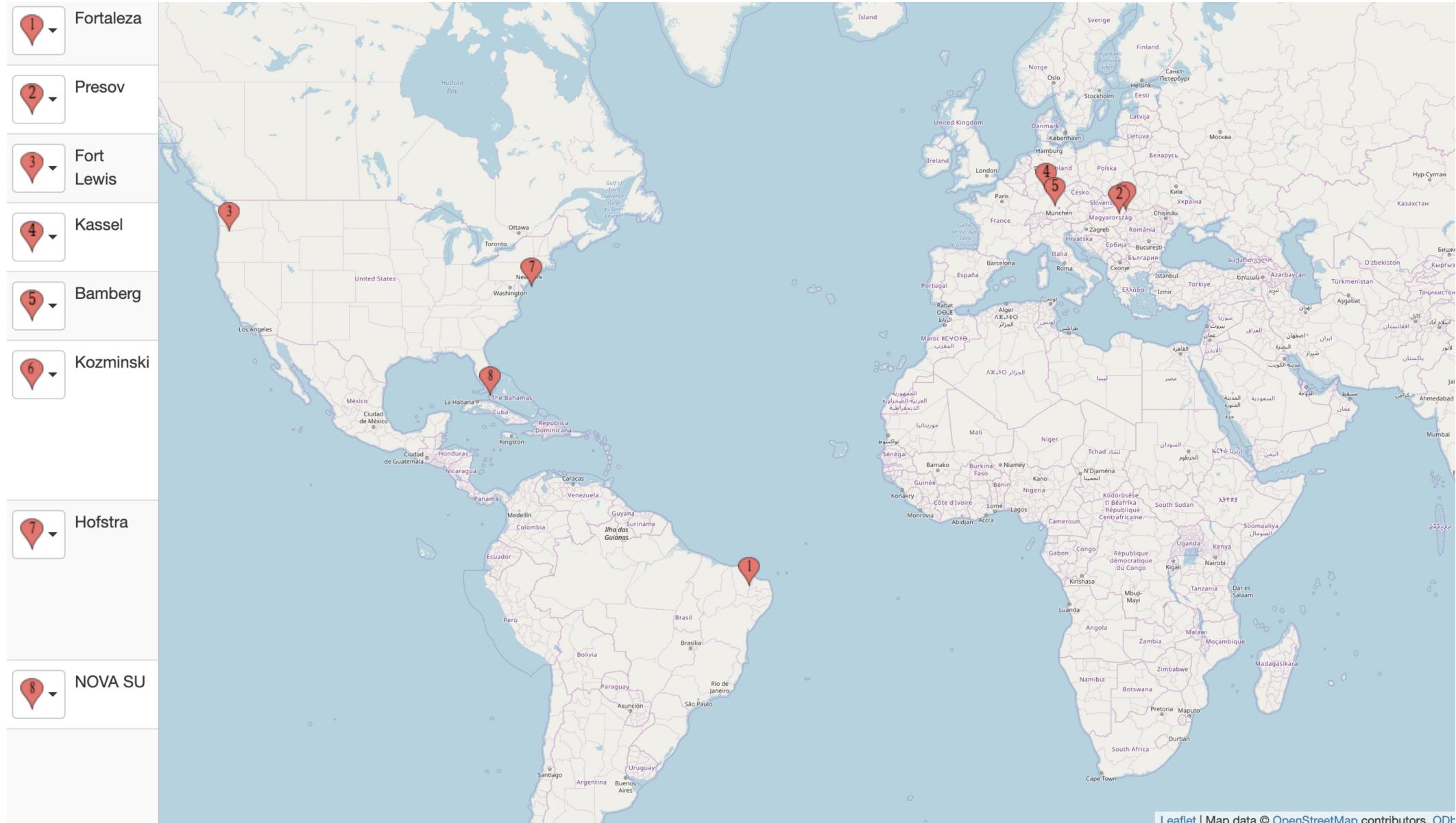
Förster and Liberman (2015)

- Target Ambiguity (Pre-testing is crucial - scenarios have to be ambiguous)
- Applicability (Prime has to increase aggression of target)

Solution?

- Run ManyLabs study.
- Pilot scenarios for each site: Target Ambiguity.
- Pilot aggression prime: Applicability.

Current Study



Pilot 1

- Generate Ambiguous Scenarios.
- Each site ($N = 9$) was asked to generate scenarios, based on original (Total N Scenarios = 21).
- Total Participant $N = 582$.
- Picked scenarios not significantly different from midpoint (+ tested support for null).
- We were able to find at least 2 scenarios for each site, except Fortaleza (ran 2nd pilot).

Pilot 2: Foerster et al.'s Aggression Prime

Pilot 2

Board	Violence
Attack	
Radio	
Murder	
Roof	
Brutal	
Hatred	
Clock	
Newspaper	
Bread	
Malicious	

g h j k l i u z t b f q h j k r i
h j k l f g h j k o d f g h j j k
q v d g h f b n m a d f q b g h u
u i u d f q h k r v b n x m n f
f o k j f u i x s d v d f e v f g
g l h r a d i o f q h j k a e r e
g e k l s d f q h u i d i u e
r n f g d a a f g h j h k r g
g c d a o e d a a f g h j h k r g
f e d h k a o e d a a f g h j h k r g
f G u i o e d a a f g h j h k r g
h q b g h i j l m u r d e r t e u
u i r f g u t c v b n m e t r d u
r t u f g d a e r t j h k l r k j
g f t j h f g c l o c k j k o o k h
g j a o i r a e d f h j k l o o k l
j k l j k i i o u z f r t z f v g
g h j k i m a l i c i o u s g h j
g h j k l a e r t z t a t t a c k

Aggression

Board	Radio
Roof	
Clock	
Newspaper	
Bread	
Teapot	
Calendar	
Colorful	
Barge	
Chair	
Cup	

g h j k l i u z t b f q h j k r i
h j k l f g h j k o d f g h j j k
q c d g h f b n m a d f q b g h u
u o i u d f q h k r v b n x m n f
f l k j f u i x s d v d f e v f g
g o h r a d i o f q h j k a e r e
g r k j l s d f g h u u i d i u e
r f f h u o o i o p o g h d b h
g u g h u o o i o p o g h d b h
f l g u o o c o a a f g h j h k g g
f g u o o c o a a f g h j h k g g
h q t g h i j l o z c u p r t e u
u i e f g u t c v b n m e t r z u
r t a f d e r t j h k l r k l
g f p i h f g c l o c k j k o o k h
g j o o i r a e d f h j k l o o k l
l k t i k l i o u z f r t z f v g
g h j k i c a l e n d a r f g h j
g h j k l a e r t z t u c h a i r

Control

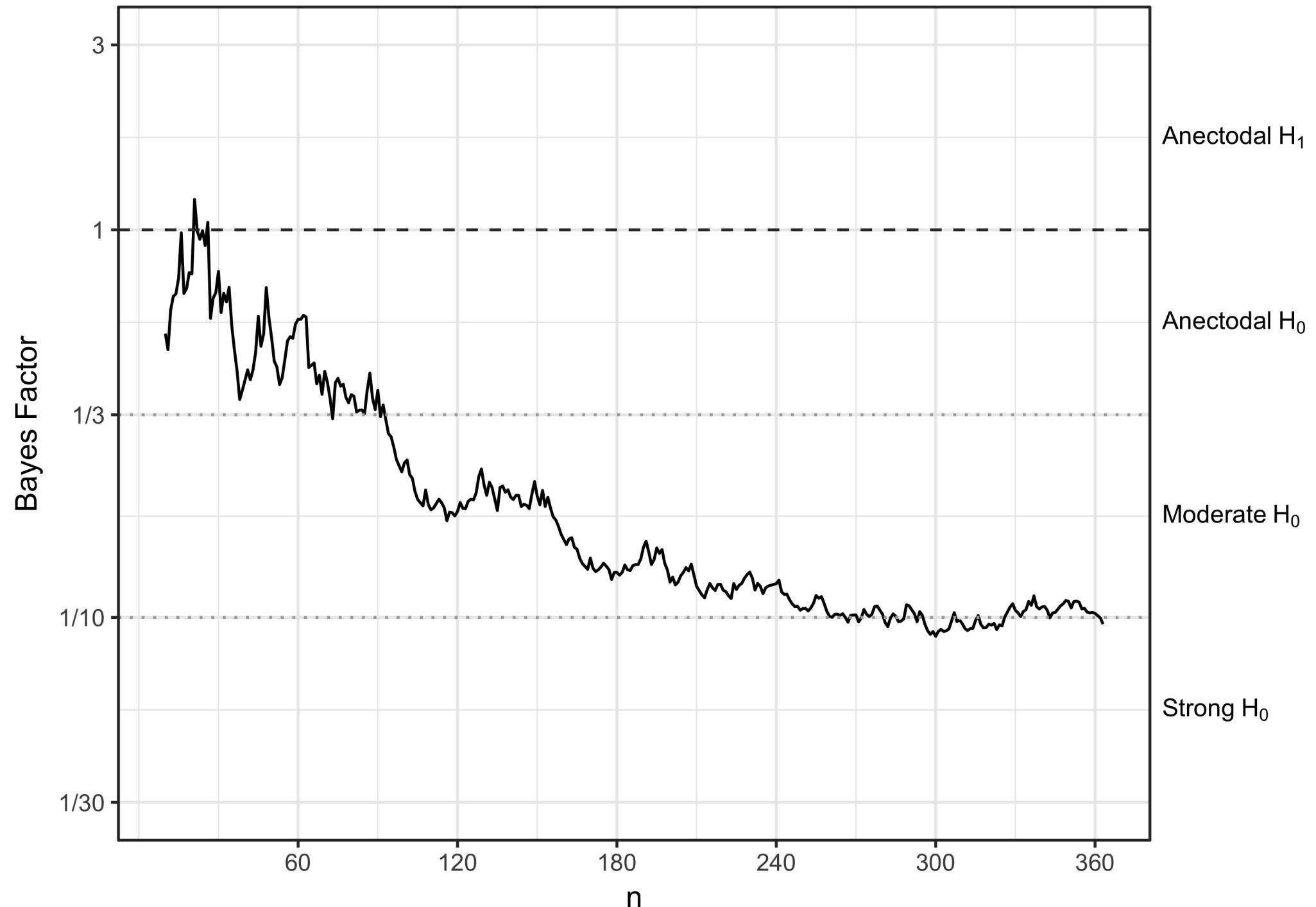
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Total N = 363 (Presov, Kassel, Bamberg, Kozminski, Fort Lewis)

Pilot 2: Foerster et al.'s Aggression Prime



Alternative Prime

- Several factors were provided by authors: Recency, applicability, frequency (but no specifics)
- Several prime methods were suggested (e.g., Subliminal prime).
- In the end, SST was agreed on.

Procedure RP:P Protocol

RPP: Protocol

Board
Violence
Attack
Radio
Murder
Roof
Brutal
Hatred
Clock
Newspaper
Bread
Malicious
g h j k l i u z t b f q h j k r i
h j k l f g h j k o d f g h j j k
q v d g h f b n m a d f g b g h u
u i u d f q h k r v b n x m n f
f o k j f u i x s d v d f e v f g
g l h r a d i o f q h j k a e r e
g e k l s d f q h u i d i u e
r n f s d f q h u i d i u e
g c d k s d f q h u i d i u e
f e g u o e d a a f g h j h k r g
h q b g h i j l m u r d e r t e u
u i r f g u t c v b n m e t r d u
r t u f g d a e r t j h k l r k j
g f t j h f g c l o c k j k o k h
g j a o i r a e d f h j k l o o k l
j k l j k l i i o u z f r t z f v g
g h j k i m a l i c i o u s g h i
g h j k l a e r t z t a t t a c k

Aggression

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g h j k l i u z t b f q h j k r i
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u o i u d f q h k r v b n x m n f
f l k j f u i x s d v d f e v f g
g o h r a d i o f q h j k a e r e
g r k l s d f g h u u i d i u e
r f f h u o i o p o g h d b h
g u g h o o c i o a f g h j h k g g
f l g u o o c i o a f g h j h k g g
f g u o o c i o a f g h j h k g g
h q t g h i j l o z c u p r t e u
u i e f g u t c v b n m e t r z u
r t a f d e r t i h k l r k h
g f p i h f g c l o c k j k o k h
g j o o i r a e d f h j k l o o k l
i k t i k l i o u z f r t z f v g
g h j k i c a l i e n d a r f g h j
g h j k l a e r t z t u c h a i r

Control

Global, Local, Control



Original Scenario

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Please answer the questions on the next page when you have finished reading.

Procedure Revised Protocol

For each group of 4 words, underline 3 words that complete a complete sentence. Sometimes you can create more than one sentence. There are no right or wrong answers, underline the first 3 words that you notice will make a complete sentence and move onto the next group of words.

1. child the punish torture
2. shoot I'll you hurt
3. the man child hang
4. him yell swear at
5. arm his break dreams
6. wash hang the clothes
7. his face punch head
8. cloth the cut paper
9. door break nose his
10. out him punch knock
11. hard kick him swat
12. crush hand paper his
13. carry I'll you ask
14. his smack desk head
15. threaten man child the
16. the car ball drive
17. I hate you hit
18. child spank punish the
19. computer smash table the
20. child the was fight them
21. out blast fight them
22. smash the break window
23. brick throw a stone
24. anger yell scream in
25. your use fist anger
26. you irritate him me
27. table pound the door
28. car a drive find
29. the swat smash fly
30. the brain wound open

Aggression

For each group of 4 words, underline 3 words that complete a complete sentence. Sometimes you can create more than one sentence. There are no right or wrong answers, underline the first 3 words that you notice will make a complete sentence and move onto the next group of words.

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13. carry I'll you ask
14. his smack desk head
15. threaten man child the
16. the car ball drive
17. I hate you hit
18. child spank punish the
19. computer smash table the
20. child the question watch
21. out blast fight them
22. smash the break window
23. brick throw a stone
24. anger yell scream in
25. your use fist anger
26. you irritate him me
27. table pound the door
28. car a drive find
29. the swat smash fly
30. the brain wound open

Control

Revised Protocol

Global, Local, Control



Piloted Scenarios

Beth the Roommate

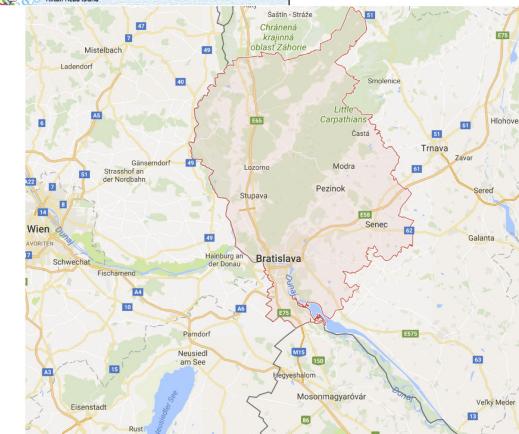
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Total N = 1460.

Change Language, Change Map

Depending on Site



Thus

- Per site, we selected scenarios.
- Per site, we altered maps.
- Per site, adapted prime.
- To get the effect, we also needed to change fonts and color of the paper.

Results

Results RP:P Protocol

p = .257, eta sq = .004 (95% CI .000 .020)

Results Revised Protocol

p = .159, eta sq = .005 (95% CI .000 .019)

Results Moderation by Protocol

p = .397, eta sq = .001 (95% CI .000 .009)

We also...

- Coded awareness at various levels (and ran all possible combinations)
- Excluded participants based on the manipulation check for the map priming.
- Checked for how far participants were sitting from screen.
- Checked for individual differences in self-representation.

Nothing mattered.

Only effect

Puzzle prime on non-ambiguous scenarios increased aggression ratings.

Conclusion

- We conducted a second, much larger N, better piloted replication study of Foerster et al.
- We do not find support for GLOMO

Why?

- Ambiguity in scenarios was achieved.
- Applicability was not.

Why?

- No a priori predictions on how to prime...
- ...Methods in this (and our) literature are underdeveloped...
- ...Effect size Cohen's $d = 1.5$ renders effect improbable.

GLOMO: Is the model true?

- I don't know. But it has not been tested well.

Other ML5 projects

Other ML5 projects

- Which study
- Original main finding
- RP:P finding
- Criticism
- ML5 Finding

Other ML5 projects

- ML5 Study: Payne, Burkley, Stokes (2008).
- Main finding: Correlations between implicit and explicit race attitudes were weaker when participants were put under high (versus low) pressure to respond without bias.
- RP:P: Replicated in Italy, but with much smaller effect size.
- Criticism: Cultural differences; effect should be stronger in US.
- ML5: No moderation by protocol and no replication. Effect not replicated in Italy and reversed in US.

Other ML5 projects

- ML5 Study: LoBue & DeLoache (2008).
- Main finding: Both young children and adults exhibit enhanced visual detection of evolutionarily relevant threat stimuli (as compared to non-threatening stimuli)
- RP:P: Similar effects, but much smaller effect sizes and not significant.
- Criticism: Methodological differences (e.g., smaller screen size), sampling differences (age of recruited children), and problems with stimuli.
- ML5: No moderation by protocol and no replication.

Other ML5 projects

- ML5 Study: Crosby, Monin, & Richardson (2008).
- Main finding: Hearing an offensive remark caused participants ($n=25$) to look at a potentially offended person, but only if that person could themselves hear the remark.
- RP:P: Did not replicate effect.
- Criticism: Study was replicated in US and the Netherlands and effects were aggregated with potentially inappropriate method (unfamiliar to the Dutch participants).
- ML5: Manipulation of protocol did not affect the size of the social referencing effect but, the original effect was replicated albeit with a much smaller effect size.

Other ML5 projects

- ML5 Study: Risen & Gilovich (2008)
- Main finding: Subjects believe that “tempting fate” will be punished with ironic bad outcomes (a main effect) and that this effect is magnified under cognitive load (an interaction).
- RP:P: Did not replicate effect on Amazon mTurk.
- Criticism: Cognitive load manipulation may be less effective when run online + subjects recruited online may respond differently to the experimental scenario.
- ManyLabs2 replicated main effect (with smaller effect size), but did not test the interaction.
- ML5: Results did not support the focus interaction or the main effect in 4 universities similar to the original and were comparable in 5 additional universities that were less similar to the original site (additional mTurk data also did not replicate the effect)



Hans IJzerman

Principal Investigator

PhD in Social Psychology from Utrecht University and Associate Professor at UGA. Directs lab strategy.



Richard Klein

Postdoc

PhD in Social Psychology from the University of Florida. Handles complex datasets and performs statistical analyses.



Patrick Forscher

Postdoc

Assistant Professor at the University of Arkansas. Joins the lab to find funding sources for the Psychological Science Accelerator.



Alessandro Sparacio

PhD Student

MA in Psychology from the University of Milano-Bicocca. Joins the lab for his PhD, and will work on stress regulation processes.



Martin Oudart

Intern

Sc.B in medicine at UGA. Joins the lab as an MSc intern and will explore links between social attachment and menopausal hot flashes.



Olivier Dujols

PhD Student

MA in Social Psychology at UGA. Joins the lab for his PhD, and will work on social thermoregulation.



Co-Regulation (CORE) Lab.

We study co-regulation in romantic relationships. We study social thermoregulation. We rely on open science ideals. We collaborate with researchers around the world, but are located at the Université Grenoble Alpes.



<http://www.corelab.io>



@hansijzerman



Papers

Check out publications and/or preprints from the lab. We ensure all our work is available to the public, so if you can't find a paper let us know!

[ACCESS PAPERS](#)



Open Data/Materials

To the extent possible we make materials, data, and analysis scripts publicly available on the Open Science Framework. These may be used for re-analysis or for novel hypotheses.

[FIND OUR DATASETS](#)



Lab Philosophy

Doing science is really hard. Here, we document the workflow of the lab and expectations for lab members. Includes templates for OSF projects to make open science easier.

[DOWNLOAD](#)

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