Evocations of the American Flag

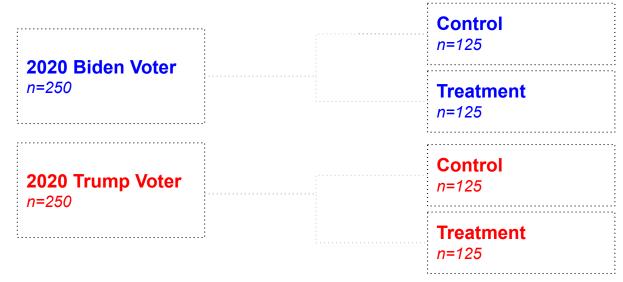
Spring 2021 - W241
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What we set out to learn

How does the American flag affect sentiments regarding divisive political issues?



Block Design





- Reside in US
- Political affiliation: Democrat / Republican / Independent

qualtrics[™]

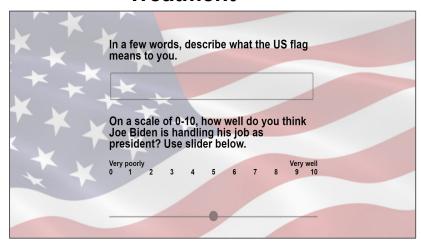
- Random assignment 50% treatment / 50% control
- Attention check

Experimental design

- RXO/R-O Design
- Posttest only randomized control group design
- Between subjects comparisons of their political opinion after treatment of flag & priming question
- Blocked on historical voter in 2020 (Biden vs Trump)

Treatment vs Control

Treatment



"DEFENSIVENESS--NOT HATRED, BUT FALSE HOPE"

"A SIGN OF UNITY"

Control

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"SIX SLICES OF FRENCH TOAST AND 3 STRIPS OF BACON"

"COFFEE WITH PINK STUFF AND A SINGLE BEER LEFT OVER FROM LAST NIGHT."

What hypotheses did we have?

Hypothesis

The image of the flag will reduce polarization for the respondent

Expectations

ATE will be small, but that we will see slightly less polarization for the treatment group when asked about the opposing party candidate.

...and by using a projective technique -- we'll improve accuracy of responses

When we ask about neighbors, we will see less polarization.

And the questions we asked...

On a scale of 0-10...

- 1. How well do you think Joe Biden is handling his job as president?
- 2. How well do you think Donald Trump handled his job as president?
- 3. How much do you think Joe Biden cares about average Americans?
- 4. How optimistic are you about the next four years with Joe Biden as president?
- 5. Do you feel that President Biden is doing more to unite the country or to divide the country?
- 6. How would you rate Joe Biden's response to the coronavirus?

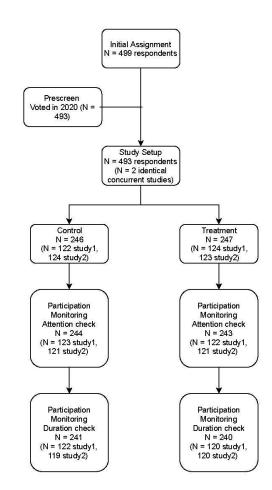
And the projective technique questions we asked...

- 7. If you flew an American flag in your yard, how likely is it that your neighbors would assume your political affiliation?
 - 0: Very unlikely 10: Very likely
- 8. If your neighbors flew an American flag in their yard, what would you assume their political affiliation to be?
 - They are more likely to support Democrats.
 - They are more likely to support Republicans.
 - They are equally likely to support Democrats or Republicans.

What happened

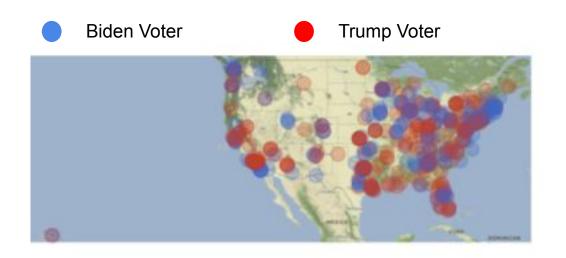
Flow diagram

- 499 Initial Assignments
- 493 confirmed voting in 2020 election
- Blocked on party affiliation by running two identical concurrent studies
- Randomized treatment within each study
- Eliminated irregular durations and inattentive respondents
- Final: N = 481
 - Treatment: N = 240
 - Control: N = 241



Confirmed Randomization Check with ANOVA

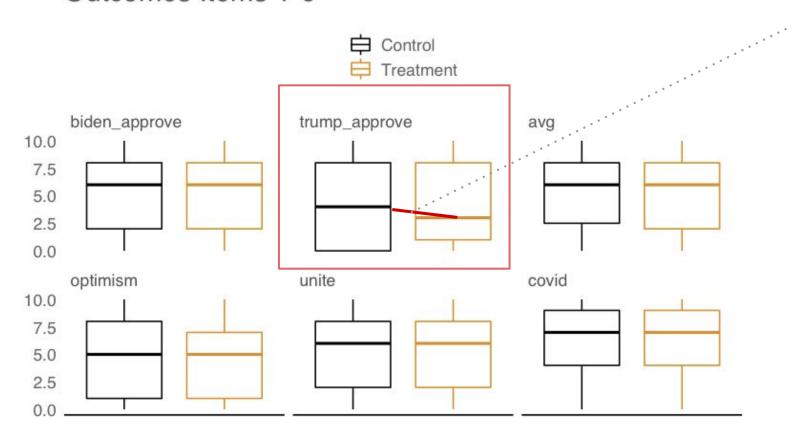
Participants & Covariate Review



Covariate Check

- Gender
- Employment
- Age
- Student Status

Outcomes Items 1-6



Is this significant?

One Heterogeneous Treatment Effect

Findings

2020 Vote is significant for all items

*Final model - Significant ATE for Biden voters on Trump approval in Treatment 0.429 (0.174) increase of 1 point on 10 point scale. There was no change for Trump voters

Models

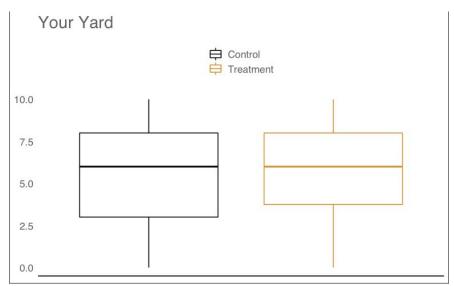
Model 1: item ~ treat

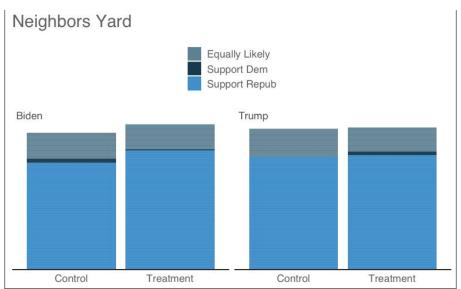
Model 2: item ~ treat + 2020 vote

Model 3: item ~ treat + 2020 vote + treat* 2020 vote

Final: item ~ treat* + 2020 vote + treat* 2020 vote + gender + student status + political affiliation + age

Projective Technique (Neighbor) Items





Interesting: <1% of respondents think their neighbor is a Democrat if they flew an American flag in their yard

Asking about a neighbor, attenuates voting behavior

Findings

Unlike other items, 2020 Vote is not significant

Projective technique reduced polarization

Models

Model 1: item ~ treat

Model 2: item ~ treat + 2020 vote

Model 3: item ~ treat + 2020 vote + treat* 2020 vote

Final: item ~ treat + 2020 vote + treat* 2020 vote + gender + student status + political affiliation + age

Conclusions

Hypothesis

The image of the flag will reduce polarization for the respondent

Findings

HTE: treatment only reduced polarization for Biden voters when asked about Trump's performance. In all other cases, voting history was the only significant covariate

...and by using a projective technique -- we'll improve accuracy of responses

Adding the filter of a neighbor, attenuated effects of voting history



Questions?



Why are Biden voters responsive to treatment, and yet, neither Biden nor Trump voters think that an American flag in a yard is indicative of the home owner being democrat?

We found that on the open ended question "What does the flag mean to you?" Biden voters responded with more negative and neutral comments than Trump voters. But, they were positively influenced by the treatment. Why might that be?

Appendix

Model 1

	Dependent variable:								
	value								
	trump approve	biden approve	avg	optimism	unite	covid	your yard	neighbor yard	
treat	0.130	-0.116	-0.149	-0.213	-0.149	-0.112	0.247	-0.023	
	(0.339)	(0.297)	(0.310)	(0.309)	(0.315)	(0.302)	(0.277)	(0.047)	
Constant	4.095***	5.129***	5.299***	4.793***	5.212***	6.112***	5.386***	2.398***	
	(0.243)	(0.212)	(0.219)	(0.223)	(0.223)	(0.214)	(0.199)	(0.034)	
 Observations	 481	 481	 481	 481	 481	 481	481	 481	
R2	0.0003	0.0003	0.0005	0.001	0.0005	0.0003	0.002	0.001	
Adjusted R2	-0.002	-0.002	-0.002	-0.001	-0.002	-0.002	-0.0004	-0.002	

Model 2: Treat + Study

Treatment + 2020 Presidential Election Vote								
========	Dependent variable:							
	trump approve	biden approve	avg	value optimism	unite	covid	your yard	neighbor
treat		-0.147 (0.195)						
studyTrump							-0.026 (0.278)	
Constant	0.793*** (0.115)						5.399*** (0.238)	
	481 0.775 0.774	0.574	0.516		0.546	0.572		0.001
Note: Treatment + 2	2020 Presidenti	ial Election V	ote	=======	=======	*p<0.1;	======= **p<0.05; ∶	======= ***p<0.01
all with Rob	ust Standard Er	rors						

Model 3: Treat + Study + (Treat * Study)

	Dependent variable:							
	trump approve	biden approve	avg	value optimism	unite	covid	your yard	neighbor
treat	0.361**	-0.239	-0.349	-0.371	-0.274	-0.231	-0.281	0.014
	(0.174)	(0.214)	(0.246)	(0.248)	(0.224)	(0.181)	(0.371)	(0.069)
studyTrump	6.712***	-5.008***	-5.037***	-5.307***	-5.176***	-5.074***	-0.549	0.056
	(0.220)	(0.272)	(0.294)	(0.284)	(0.296)	(0.274)	(0.398)	(0.068)
as.factor(study)Trump								
treat:as.factor(study)Trump	-0.379	0.183	0.337	0.249	0.185	0.174	1.049*	-0.073
	(0.322)	(0.389)	(0.433)	(0.397)	(0.425)	(0.396)	(0.554)	(0.095)
Constant	0.697***	7.664***	7.849***	7.479***	7.832***	8.681***	5.664***	2.370***
	(0.116)	(0.155)	(0.160)	(0.179)	(0.162)	(0.128)	(0.273)	(0.051)
Observations	481	 481	 481	 481	 481	481	481	481
R2	0.776	0.574	0.517	0.591	0.547	0.572	0.009	0.002
Adjusted R2	0.774	0.571	0.514	0.588	0.544	0.569	0.003	-0.004
Note:						*p<0.1;	**p<0.05;	***p<0.01
Treatment + 2020 Presidenti	al Flection Vo	te + Interacti	on(Treatme	nt and 202	0 PresVote	y .		
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Final Model

	Dependent variable:									
	value									
	trump approve	biden approve	avg	optimism 	unite	covid	your yard 	neighbor yard		
treat	0.429**	-0.221	-0.339	-0.349	-0.269	-0.195	-0.294	0.028		
	(0.174)	(0.214)	(0.246)	(0.248)	(0.224)	(0.181)	(0.371)	(0.069)		
as.factor(study)Trump	6.190***	-4.646	-4.589	-4.748	-4.599	-4.845	-0.492	0.032		
treat:as.factor(study)Trump	-0.412	0.121	0.292	0.172	0.133	0.091	1.083*	-0.099		
	(0.322)	(0.389)	(0.433)	(0.397)	(0.425)	(0.396)	(0.554)	(0.095)		
Constant	0.634***	4.443***	4.451***	5.952***	4.260***	7.685***	4.736***	2.997***		
	(0.116)	(0.155)	(0.160)	(0.179)	(0.162)	(0.128)	(0.273)	(0.051)		
Observations	481	481	 481	 481	 481	481	481	 481		
R2	0.787	0.590	0.536	0.608	0.565	0.588	0.023	0.023		
Adjusted R2	0.782	0.579	0.524	0.598	0.554	0.577	-0.002	-0.002		