Exposure to inequality affects support for redistribution

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The distribution of wealth in the United States and countries around the world is highly skewed. How does visible economic inequality affect well-off individuals’ support for redistribution? Using a placebo-controlled field experiment, I randomize the presence of poverty-stricken people in public spaces frequented by the affluent. Passersby were asked to sign a petition calling for greater redistribution through a “millionaire’s tax.” Results from 2,591 solicitations show that in a real-world-setting exposure to inequality decreases affluent individuals’ willingness to redistribute. The finding that exposure to inequality begets inequality has fundamental implications for policymakers and informs our understanding of the effects of poverty, inequality, and economic segregation. Confederate race and socioeconomic status, both of which were randomized, are shown to interact such that treatment effects vary according to the race, as well as gender, of the subject.

Inequality | redistribution | field experiment | political science | taxation

The distribution of wealth in many countries across the globe is highly skewed. In the United States, the gap between the top 1% of earners and everyone else was wider in 2012 than any time since before the Great Depression (1) and is a pervasive social and political phenomenon (2). With this phenomenon comes visible manifestations of inequality, which affect social interactions from cooperation (3) to conflict (4). However, very little is known about how direct exposure to inequality in everyday settings—such as poverty and homelessness in relatively wealthy neighborhoods—shapes human behavior. Isolating this causal effect is challenging because of selective sorting. To overcome this difficulty, I experimentally manipulate exposure to inequality that occurs on sidewalks and street corners. Using a randomized placebo-controlled field experiment, I show momentary passive “contact” with a poverty-stricken person in an affluent public place can change people’s willingness to actively support redistributive policies.

Economic inequality is an abstract concept that is difficult to concretely portray without the help of numbers, graphs, or words. Understanding the implications of exposure to inequality as a personal experience, rather than as an impersonal abstraction, requires the manipulation of microlevel contextual features. I evoke everyday inequality by placing poor individuals in a place of affluence. (Using a separate, online experiment, detailed in SI Appendix, I show that subjects describe images of the poor in affluent settings as depicting inequality. Thus, I use the terms “exposure to inequality” and “poverty in an affluent setting” interchangeably.)

Those with the means to live and shop in such neighborhoods are more likely than the average citizen to participate in politics and donate to political causes and thus wield a disproportionate influence over politics and policy (2).

The experimental intervention created a microenvironment of inequality that was both highly realistic and carefully controlled by the researcher. In treatment conditions, passersby were subtly exposed to a professional actor (confederate) portraying an impoverished person through both their clothing and body language. In the control condition, the same confederate would portray an affluent individual, dressed business casual and showing appropriately different body language.

Since the 1960s, racial attitudes have dominated the American public’s thinking about poverty (5). Political scientists have shown that simply priming race in a survey can lower white respondents’ support for welfare policies (e.g., ref. 6). However, social psychology demonstrates that individuals define themselves in relation to similar others in their environment, such as those who share their race and gender (7). This phenomenon may be particularly relevant in an experiential setting. To assess whether predominantly white and well-off pedestrians respond differently to inequality that appears both socioeconomic and racial, confederate race was also randomized.

Passersby became subjects in the experiment as they were approached by a petitioner, stationed within 20 feet of the confederate. The policy on the petition was randomized between two texts, the first of which expressed support for a “millionaires’ tax” to increase taxation on incomes over $1 million, redistributing the money. To establish a baseline, the other half of subjects were asked to sign a placebo policy petition unrelated to inequality, referring instead to reducing disposable plastic bags.

Results from 2,591 solicitations show that individuals are less likely to support redistributive policies in the presence of a poor person in an affluent setting. The finding holds overall and when estimated as a difference-in-differences (net of the baseline response rate established by the placebo petition). The negative causal effect of direct exposure to inequality on support for redistribution appears to be driven largely by white men encountering a poor person of their own race.

Significance

As the world’s population grows more urban, encounters between members of different socioeconomic groups occur with greater frequency. I provide real-world experimental evidence that exposure to inequality shapes decision-making. By randomly assigning microenvironments of inequality, this study builds on observational research linking the salience of inequality to antisocial behavior, as well as survey experimental evidence connecting perceived inequality to diminished generosity. Specifically, I show that exposure to socioeconomic inequality in an everyday setting negatively affects willingness to publicly support a redistributive economic policy. This study advances our understanding of how environmental factors, such as exposure to racial and economic outgroups, affect human behavior in consequential ways.

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This study makes several contributions. First, I provide real-world field experimental evidence that direct exposure to inequality—something that occurs daily worldwide—influences support for redistribution. Theoretically, this result implies that the relationship between high inequality and support for redistributive policies. Second, by randomizing the race of confederates as well as their socioeconomic status (SES), this study experimentally disentangles the confounded relationship between race, poverty, and support for redistribution. I find that white subjects respond negatively to poor white confederates but not to poor black confederates.

A handful of studies have examined the effect of context or subtle environmental cues on behavior (4, 8) and attitudes (9). Although none of these studies has randomized encounters with real-world inequality, several recent studies examine the effect of perceptions of inequality on survey responses and laboratory behaviors (3, 10, 11). A series of laboratory experiments (3) show that visible wealth encourages greater inequality, compared with when wealth is hidden. Survey experiments (10) show that higher-income individuals are less generous, relative to lower-income individuals, if they reside in a highly unequal state or when randomly assigned to view simulated data indicating inequality is relatively high in their state. Rather than presenting subjects with information about inequality, this study experimentally induces inequality in a person’s natural, ordinary environment. Furthermore, prior research on inequality effects has typically occurred in a relatively artificial context in which, among other concerns, outcomes are subject to experimenter effects (12, 13). I measure revealed preferences through a real-world behavior, in a context in which experimenter effects are highly implausible. In contrast to previous studies of redistributive preferences that rely on costless expressions of opinion on a survey or relatively unnatural distributive games, this study examines the effect of exposure on a real political action in an authentic setting. Although signing a petition is less costly than some forms of political engagement, it is a meaningful, public form of advocacy (14, 15) and a potential gateway to future political participation (16, 17).

Research Design
The experiment took place between October 3 and December 11, 2015. [The design was preregistered at Evidence in Governance and Politics (EGAP) (ID no. 20151012AA).] Study sites were affluent, predominantly white, pedestrian-trafficked commercial areas around Boston, MA. (Neighborhoods included Brookline, Back Bay, and Beacon Hill, and were chosen to limit the heterogeneity of the subject pool to ensure sufficient statistical power.) A fully crossed factorial design was used, depicted in Table 1. The “poverty” and “affluence” conditions refer to the appearance of the confederates. The poverty condition, confederates appeared unkempt, wearing extremely shabby clothes and communicating poverty via their posture and body language. In the affluent condition, the same confederates were well-dressed and behaved as if waiting patiently to meet a companion for a nice meal (SI Appendix, Fig. S1). Confederates, positioned within 20 feet of the petitioner, were instructed to remain standing as to be visible to pedestrians, and not to, in any way, appear to be begging or panhandling. (Confederates were instructed not to panhandle or appear mentally ill or intoxicated, to avoid generating aversion, scorn, or disgust. All six confederates were trained and monitored closely by the researcher.) Confederates were told to refrain from initiating conversation with pedestrians, petitioners, or anyone else while in sight of their assigned location.

On any given day, two male confederates of similar age, one non-Hispanic white and one black, portrayed poverty and affluence at randomly scheduled times. The petitioner rotated between the two petitions, a millionaire’s tax and reducing plastic bags. (The so-called millionaire’s tax, a proposal to raise taxes on high income earners, is a salient and popular redistributive policy proposal on the agenda in many US states. In Massachusetts, the policy would alter the state constitution to impose an additional tax of 4% on individuals with annual incomes of $1 million or more.) Two conditions for each of confederate appearance, confederate race, and petition generate eight total conditions.

The plastic bag (placebo) petition accounts for the possibility that pedestrians behave differently in the presence of confederates regardless of the content of the petition. Response rates might always be lower when the petitioner is in the vicinity of a poor person because pedestrians are simply more hesitant to stop (a “scare-off” effect). The placebo allows me to rule out this possibility by taking the “difference-in-differences” in response rates for any given day and location. This approach nets out scare-off effects, isolating strictly the effect of the poverty and race treatments on the probability of signing the millionaire’s tax.

The setup, depicted in Fig. 1, was highly realistic in several respects. First, both petitions pertained to relevant policy issues in the state. During this time, activists were circulating petitions to get the millionaire’s tax on the state-wide ballot in Massachusetts. The experiment was also realistic in that it is not uncommon to see poor-looking individuals standing around or sitting in these neighborhoods, although particular spots on sidewalks were avoided if occupied by a panhandler. (Importantly, in approximately 30 h of petitioning, nobody expressed suspicion regarding the confederates nor the petitioner. The confederates changed their clothing for the different roles in a car with tinted windows that was parked on a side street, away from commercial strips where the petitioning took place. Confederates walked to and from the car along back streets to avoid attention when not in character.) To buttress the claim that the intervention approximates a salient way nonpoor individuals experience inequality, I conducted an online survey experiment, detailed in SI Appendix, in which an independent sample responded to photographs of scenes like those staged in the field. Subjects described those images in words and phrases related to inequality in open-ended questions and ranked “inequality” as the best word to describe them. (Online subjects used terms of disparity and inequality to describe the images. When asked to rank words that describe the image, a majority ranked

<table>
<thead>
<tr>
<th>Table 1. Experimental design</th>
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<tbody>
<tr>
<td>Petition</td>
</tr>
<tr>
<td>Millionaire’s tax: increasing taxes on earnings over $1 million, redistributing the money</td>
</tr>
<tr>
<td>Plastic bags: reducing the use of plastic bags (unrelated to inequality or poverty)</td>
</tr>
</tbody>
</table>

This fully crossed 2 × 4 factorial design describes eight conditions corresponding to two different petitions, two confederate race categories, and two confederate SES conditions.

*The campaign to place the millionaire's tax constitutional amendment on the ballot collected over 157,000 signatures, more than twice the 64,750 signatures needed to advance the policy to the legislative approval stage before it can be placed on the ballot in November 2018. According to Raise Up Massachusetts, the advocacy coalition that sponsored the campaign, “The constitutional amendment would create an additional tax of four percentage points on annual income above $1 million. The new revenue generated by the tax...could only be spent on quality public education, affordable public colleges and universities, and the repair and maintenance of roads, bridges, and public transportation” (www.raiseupma.org).
The petitioner approached every third adult, asking “Would you sign this petition in support of [the millionaire’s tax/reducing the use of wasteful plastic bags]?” If questioned further about the nature of the policy, the petitioner responded with a brief, scripted reply, paraphrasing the language on the petition. Petitioners were given a short script (SI Appendix) from which they were told not to deviate (i.e., no attempts to persuade or engagement in political discussions of any sort), which ensured their behavior remained consistent across experimental conditions. If the subject asked to see the petition or agreed to sign it, he or she was handed or shown the clipboard. The exposed sheet displayed the text of the petition and a set of columns for printed name, signature, and address.

**Covariates.** Petitioners unobtrusively recorded their “best guess” at the gender, age, and race/ethnicity of each person approached, including those who did and did not sign. These covariates include the gender (man or woman), age (18–35, 35–65, >65 y), and race/ethnicity (white, black, Asian, Hispanic) of each individual approached. SI Appendix, Table S1 shows balance in the covariates across the affluence and poverty conditions, and SI Appendix, Table S2 shows that the eight treatment conditions predict covariates at a little worse than chance. Petitioners also kept track of unsolicited signatures (SI Appendix, Fig. S6).

Based on the petitioners’ recordings subjects were 82.8% white, 9.3% Asian, 3.9% black, 2.5% Latino, and 1.5% unknown race. The sample comprised 57% women and 43% men, with 89% estimated to be between the ages of 18 and 65. (Petitioners estimated 45% of the sample to be age 18–35 y, 44% age 35–65 y, and 11% over 65 y. Because guessing someone’s age by sight alone is difficult, subjects are not analyzed separately by age group.)

To estimate the SES of those who signed a petition, addresses provided when signing were linked to ZIP code-level characteristics from the American Community Survey. Massachusetts residents, who comprise almost all of the signers, hail from high-income ZIP codes, even by Massachusetts standards; the median ZIP code has a median household income of $79,290. [Two hundred seventy-six Massachusetts ZIP codes were identified from the address provided by the signer and matched to American Community Survey 5-y estimates of median annual household income (2014). Although self-selected, petition-signers tend to come from wealthy neighborhoods by US ($53,657) and Massachusetts ($69,160) standards.]

**Results and Discussion**

Cluster-level treatment effects are presented in Table 2. Each cluster represents a 30-min period in which passersby were exposed to one of the eight conditions described in the cells in Table 1. To account for dependence between observations within each 30-min period, average treatment effects are calculated by regressing the response rate in each cluster on a set of binary indicators for the treatment conditions. Based on column 1, subjects are, on average, 4.4 percentage points (pp) less likely to support the redistributive policy in the presence of a poor person ($P < 0.10$), pooling across confederate race conditions. The specification estimated in column 2 allows the treatment effect to vary by confederate race. Here, the estimated coefficient on poor actor nearly doubles in magnitude when accounting for the poverty and race treatments. Exposure

...
to white poverty in an affluent setting decreases support for a redistributive policy by 8.2pp ($P < 0.05$), substantively and statistically significant decline. (The response rate on the millionaire’s tax petition declines from 14% in the affluent white condition to 6% in the poor white condition, a decrease of roughly 57%.)

Meanwhile, subjects are not significantly more or less likely to support reducing the use of plastic bags under any of the conditions, based on columns 3 and 4 of Table 2. These coefficient estimates are relatively small in magnitude and are statistically indistinguishable from zero [SI Appendix, Fig. S2]. Individual-level results (SI Appendix, Tables S3 and S4) suggest subjects are marginally less likely to sign either petition in the presence of a black confederate ($P < 0.10$).] SI Appendix, Table S5 shows estimates of the difference-in-differences between the plastic bag petition and the millionaire’s tax petition at the cluster level. The findings are highly similar; subjects are 8pp less likely to support the redistributive policy in the presence of a poor person, net of baseline response rates ($P < 0.05$), and this effect is driven exclusively by the poor white condition. [The preregistered hypotheses anticipated a positive relationship between exposure to inequality and support for redistribution. However, recent research published on the topic suggests a negative relationship (e.g., refs. 4 and 10). My findings are consistent with the latter.]

Fig. 2 plots the difference in means, along with 95 and 80% confidence intervals, for several comparisons of interest in support for the millionaire’s tax. Instead of estimating treatment effects at the cluster level, as in Table 2, point estimates come from individual level data, to facilitate comparison with Fig. 3. Because each of the clusters is roughly the same size, individual-level estimates are nearly identical to those estimated at the cluster level. (Confidence intervals adjusted using a block bootstrap to account for dependence between observations within clusters are identical to unadjusted standard errors, suggesting there is no clustering in the individual errors.) As in column 2 of Table 2, the difference in the poor black versus affluent black conditions is indistinguishable from zero, whereas the poor white versus affluent white comparison reflects the largest gap in response rates. Support for the millionaire’s tax in the presence of an affluent black confederate is lower than in the presence of an affluent white confederate, although the effect is not statistically significant at conventional levels. Because this effect similarly appears among subjects asked to sign the placebo petition, it may be evidence of a scare-off effect caused by the hesitance of subjects to stop for any cause when a black person is nearby. The final comparison in Fig. 2 suggests that subjects are marginally less likely to support redistribution when the petitioner is adjacent to a poor white person rather than a poor black person, although the difference is not distinguishable from zero. (There are no systematic differences in the results between four petitioners, nor are there differences by petitioner gender.)

At the same time, the aggregate level results mask subgroup heterogeneity. Using the individual-level data recorded by petitioners, I examine non-Hispanic white subjects, who comprise over 80% of the sample, separately. Fig. 3 shows the difference in mean response rates for white subjects ($n = 1092$), then for white men ($n = 452$) and white women ($n = 640$), on the millionaire’s tax petition. (Whereas the preanalysis plan stated my intent to examine heterogeneous treatment effects among different race, gender, and age groups, it did not explicitly state the intent to examine white males and white females separately.) Black subjects are not analyzed separately because there are so few of them ($n = 62$).

Fig. 3 shows the effect of exposure to inequality described above as primarily driven by white men, whose support for the millionaire’s tax falls in the presence of a poor white confederate. As above, inequality due to a poor black confederate barely registers for any subgroup. White men in particular are less likely to stop in the presence of an affluent black confederate compared with an affluent white confederate, an effect that persists for both petitions (SI Appendix, Figs. S2 and S3). Finally, although not statistically significant at conventional levels, white men are marginally more likely to support the tax in proximity to a poor black person, compared with a poor white person, which further reflects their distaste for redistribution when a poor white man stands nearby.

These results reveal that visible inequality can be a pertinent feature of an individual’s environment when asked to support redistributive policies. Why does the salience of everyday inequality decrease support for redistribution, particularly in some types of people?

One possible explanation is rooted in social psychology’s “belief in a just world” hypothesis, which posits that affluent individuals justify their privileged positions by viewing the current distribution of resources as fair (18). As passersby in an upscale pedestrian thoroughfare, subjects may have reacted to a visual

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**Table 2. Cluster-level treatment effects**

<table>
<thead>
<tr>
<th>Variable</th>
<th>Millionaire's tax (1)</th>
<th>Plastic bags (placebo) (2)</th>
<th>Plastic bags (placebo) (3)</th>
<th>Plastic bags (placebo) (4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poor actor</td>
<td>-0.044***</td>
<td>-0.082**</td>
<td>0.036</td>
<td>0.027</td>
</tr>
<tr>
<td></td>
<td>(0.024)</td>
<td>(0.035)</td>
<td>(0.030)</td>
<td>(0.047)</td>
</tr>
<tr>
<td>Black actor</td>
<td>-0.051</td>
<td>-0.040</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.032)</td>
<td>(0.044)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Poor actor × Black actor</td>
<td>0.070</td>
<td>0.013</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.047)</td>
<td>(0.061)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Constant</td>
<td>0.114***</td>
<td>0.142***</td>
<td>0.180***</td>
<td>0.205***</td>
</tr>
<tr>
<td></td>
<td>(0.016)</td>
<td>(0.024)</td>
<td>(0.021)</td>
<td>(0.034)</td>
</tr>
<tr>
<td>Clusters</td>
<td>38</td>
<td>38</td>
<td>36</td>
<td>36</td>
</tr>
<tr>
<td>Residual SE</td>
<td>0.073</td>
<td>0.072</td>
<td>0.089</td>
<td>0.090</td>
</tr>
</tbody>
</table>

Cluster-level treatment effects from ordinary least squares (OLS) regression. Columns 1 and 2 show results for the millionaire’s tax and the second two for the placebo petition. Columns 1 and 3 show the main effect of the poor actor treatment, pooling across black and white actors. Columns 2 and 4 include the interaction between race and poverty treatments. *$P < 0.1$; **$P < 0.05$; ***$P < 0.01$. **

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**Fig. 2.** Treatment effects for the millionaire’s tax petition ($n = 1335$). A plot of the difference in means for all subjects on the millionaire’s tax petition. Confidence intervals come from a block–bootstrap procedure to account for dependence between observations within clusters. Thin bars are 95% confidence intervals for two-sided t tests on the difference in means; thicker bars represent 80% confidence intervals.
Treatment effect on white subjects for the millionaire’s tax petition. The difference in means for white subjects, separated by men and women, in response to the millionaire’s tax petition, is also shown. Thin bars are 95% confidence intervals for two-sided t tests on the difference in means; thicker bars are 80% confidence intervals.

Fig. 3. Treatment effect on white subjects for the millionaire’s tax petition. The difference in means for white subjects, separated by men and women, in response to the millionaire’s tax petition, is also shown. Thin bars are 95% confidence intervals for two-sided t tests on the difference in means; thicker bars are 80% confidence intervals.

A related explanation is that the sight of a poor white person reminder of poverty by “doubling down” on their high economic standing. However, if exposure to inequality makes salient beliefs that the world is just, then subjects’ support for redistribution should decline in the company of black and white confederates alike. This hypothesis appears insufficient to account for the heterogeneous effects by race described above. (However, see ref. 19 on the conditions under which belief in a just world and group identification interact to predict victim derogation and psychological distancing.)

Another explanation is that visible poverty reminds people of their SES relative to others. Individuals may adjust or benchmark perceptions of their own economic standing in relation to those in their environment (20, 21). Exposure to inequality may have induced subjects to switch frames of mind from considering themselves as the beneficiary of the tax to potentially being subject to taxation themselves (22); in other words, they “feel like millionaires” and thus balk at the chance to support a policy that might harm them. (Several subjects refused to sign millionaire’s tax petition because they claimed to be a millionaire or expected to be one in the future.) The idea that individuals engage in “status benchmarking” against others is related to the social affinity hypothesis articulated by ref. 23, which describes how voters’ redistributive preferences change with perceived distance between high-, middle-, and low-income groups. Moreover, status benchmarking should occur most often when congruence between subject and confederate characteristics is high; social-comparison theory, well established in social psychology, describes how individuals compare themselves to others with similar characteristics (21), such as race and gender (24–26).

A related explanation is that the sight of a poor white person reduces support for redistribution among white subjects because the latter can more easily place blame on the poor individual, rather than society, for their misfortune. Individuals hold beliefs about what it takes to be successful for members of their own group. These individuals learn from their own experiences with social mobility and develop attitudes about redistributive taxation based on those experiences (27). This learning leads to the belief that effort, rather than structural factors beyond one’s control, predicts economic success; tangible reminders of inequality are seen through this lens, inducing individuals to reject redistributive policies. If this mechanism is at work, affluent white men believe the status of poor white men is due to low effort but lack information about the effort exerted by poor black men. This belief may lead white subjects to “punish” their poor white counterparts by rejecting the millionaire’s tax. Indeed, individualized attributions of poverty have been shown to lower support for redistribution and welfare policies, compared with structural or systemic attributions of poverty (28–30).

A more definitive test of the latter mechanisms would involve estimating treatment effects for affluent black subjects exposed to black or white poverty, as well as randomizing the gender of the confederates, both of which are outside the scope of this study. Still, the evidence presented here is consistent with the notion that subjects systematically respond most strongly to poor confederates that share their own race and gender. An individual who belongs to one’s demographic in-group but is an economic outsider is a reminder of one’s own status within the relevant demographic group. Thus, we would expect people to reduce support for redistribution when visible inequality involves an individual with whom they share certain stable attributes.

Conclusion

This study uses a randomized placebo-controlled field experiment to establish the causal effect of exposure to inequality on support for redistribution. In doing so, the study extends several lines of scientific inquiry.

First, this study demonstrates the effect of encounters between groups of vastly different SES and also begins to disentangle the independent effects of race, gender, and SES on political behaviors. Furthermore, this study examines the effect of exposure on an actual political behavior, in this case petition-signing. As such, our understanding of petition-signing as a political behavior is also developed—this behavior does not occur in a vacuum, although the context in which it takes place has been largely ignored.

Our understanding of the relationship between inequality and redistribution at the individual level is advanced. Much has been written on this topic at the national level, primarily claiming that rising inequality induces low-income voters to demand redistribution (31–33). This study contributes to an emerging experimental literature that examines this claim at a microlevel, showing that exposure to inequality in a real-world context discourages affluent citizens from actively supporting redistributive policies.

The observation that momentary exposure influences behavior is suggestive of broader consequences of repeated encounters between the wealthy and the poor. This type of contact is commonplace in cities, where population growth is occurring more rapidly than in suburban or rural areas (34). The prevalence of both urban growth and inequality in the United States means that understanding the behavioral implications of exposure to racial and economic outgroups is increasingly important.

The findings also suggest that the presence of poverty, particularly in a place of affluence, decreases support for policies aimed at alleviating those conditions, a worrisome conclusion given that the general population increasingly resides in urban environments where contact with low-income individuals is likely. Homelessness, the most visible manifestation of rising urban poverty, may perversely discourage citizens from favoring social safety nets.

Finally, the results have practical implications for advocates engaged in political communication. Voters’ reactions are contingent on the setting in which canvassing takes place and perhaps even on the imagery used in campaign materials. Charitable organizations and policy advocates may wish to exercise caution...
in using visual depictions of poverty or inequality. Ultimately, changing minds may require cognizance of context.

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