Dynamic remodeling of in-group bias during the 2008 Presidential election

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Dynamic remodeling of in-group bias during the 2008 presidential election

David G. Rand, Thomas Pfeiffer, Anna Dreber, Rachel W. Sheketoff, Nils C. Wernerfelt, and Yochai Benkler

People often favor members of their own group, while discriminating against members of other groups. Such in-group favoritism has been shown to play an important role in human cooperation. However, in the face of changing conflicts and shifting alliances, it is essential for group identities to be flexible. Using the dictator game from behavioral economics, we demonstrate the remodeling of group identities among supporters of Democratic presidential candidates Barack Obama and Hillary Clinton. After Clinton’s concession in June 2008, Democrats were more generous toward supporters of their own preferred candidate than to supporters of the other Democratic candidate. The bias observed in June persisted into August, and disappeared only in early September after the Democratic National Convention. We also observe a strong gender effect, with bias both appearing and subsiding among men only. This experimental study illustrates a dynamic change in bias, tracking the realignment of real-world conflict lines and public efforts to reconstitute group identity. The change in salient group identity we describe here likely contributed to the victory of Barack Obama in the 2008 presidential election.
results
In June, men gave significantly more to supporters of the candidate they also supported than to supporters of the other Democratic candidate (Fig. 1A; 1-tailed Wilcoxon rank-sum, P = 0.037). This in-group bias among men persisted into August and the run-up to the DNC (Fig. 1B; 1-tailed Wilcoxon rank-sum, P = 0.007). However, after the DNC, in-group bias was not observed in early September (Fig. 1C; 1-tailed Wilcoxon rank-sum, P = 0.26). Women did not display significant in-group favoritism during any of the sampling periods (1-tailed Wilcoxon rank-sum, June P = 0.13, August P = 0.74, September P = 0.41). Although older female Clinton supporters were particularly outspoken in their opposition to Barack Obama, we see no significant in-group favoritism among women even if we restrict our analysis to female Clinton supporters >30 years of age (1-tailed Wilcoxon rank-sum, P = 0.37) or >40 years of age (1-tailed Wilcoxon rank-sum, P = 0.58).

Our results emphasize that group identities are flexible and can change over time. Significant in-group bias existed in June, because the Obama versus Clinton conflict was still salient. That this bias carried on into mid-August suggests that the absence of actual electoral conflict was insufficient to alter Democrats’ perception of the salient grouping. The symbolic emphasis placed on party unity during the DNC may have been one important reason for the disappearance of Democratic in-group bias. Other changes in the political landscape, such as the Republican National Convention and the announcement of Sarah Palin as Republican vice presidential candidate, might have contributed as well.

The gender effect we observe is remarkable, because most previous dictator game studies have found no gender differences in bias with, for example, minimal groups (5), ethnic groups (8) or, most pertinent to the present experiment, political affiliation groups (4). Our results are consistent, however, with studies finding that men have a stronger response than women to intergroup competition (34, 35), and a greater tendency to seek dominance over other groups (36, 37). It has also been reported that men showed in-group bias based on ethnicity in a trust game (38) and based on religiosity in a common-pool-resource dilemma (39) whereas women did not; that men were sensitive to reciprocity concerns whereas women were not (44); and that boys developed in-group bias between the ages of 3 and 8 years whereas girls did not (40). Furthermore, we replicate this male-only gender effect in a second similar study, which matched Democrats with other Democrats or Republicans (see SI). The extreme salience of gender in the 2008 election, because of the presence of a female candidate, may help to explain why we observe a gender difference in bias based on political affiliation, whereas ref. 4 found no such gender difference during the 2004 election cycle. Further study is needed to clarify the relationship between gender and in-group favoritism.

To explore possible differences between Obama and Clinton supporters, we examine preconvention and postconvention transfer choices for supporters of each candidate separately (Fig. 2). The same effect is evident among supporters of both candidates: significant in-group bias existed among men before the DNC (1-tailed Wilcoxon rank-sum, Obama males P = 0.022, Obama females P = 0.53, Clinton males P = 0.003, Clinton females P = 0.25), whereas no significant bias existed after the DNC (1-tailed Wilcoxon rank-sum, Obama males P = 0.07, Obama females P = 0.37, Clinton males P = 0.72, Clinton females P = 0.54).

Furthermore, Fig. 2 allows a comparison of the level of bias among Obama and Clinton supporters. There is no significant
difference in transfers to in-group members among men before the DNC (Obama to Obama: $3.18, Clinton to Clinton: $2.92; 2-tailed Wilcoxon rank-sum, \( P = 0.72 \)). However, there is a significant difference in male pre-DNC transfers to out-group members (Obama to Clinton: $1.88, Clinton to Obama: $0.77, 2-tailed Wilcoxon rank-sum, \( P = 0.027 \)). This suggests that in June and August, Clinton supporters were more biased against Obama supporters than vice versa. Although the evidence for this asymmetry is not conclusive, it seems plausible that threatened groups may exhibit more intense in-group bias than successful groups. This issue requires further study.

Discussion

Barack Obama’s victory in the 2008 presidential election relied in part on the support of voters who favored Hillary Clinton in the Democratic primary. In the year preceding the presidential election, the Democratic Party was deeply divided by a long, bitter primary season. There was speculation that many Clinton supporters, angered by her defeat, would break with the Democratic Party and vote against Obama in the general election. Therefore, unifying the party by reducing the antagonism between Obama and Clinton supporters was a major goal of Democratic leaders after Clinton’s concession. To achieve this, the group identities that were salient during the primary (Obama supporter and Clinton supporter) had to be replaced, with supporters of both candidates considering themselves Democrats.

Here, we have demonstrated this remodeling of group identity among supporters of Democratic presidential candidates Barack Obama and Hillary Clinton using economic games. In-group favoritism existed in male Democrats after Clinton’s concession in June, persisted into August, and then disappeared after the Democratic National Convention. It is not clear that this lack of in-group bias translated into voting patterns in the 2008 general election, or that our observations were representative of Democrats outside of Cambridge, MA. We report changing attitudes toward supporters of Barack Obama and Hillary Clinton, as opposed to feelings about (or actual votes for) the candidates themselves. Nevertheless, national polls indicate a large increase in support for Obama among Clinton supporters immediately after the DNC (41), which is broadly consistent with our observations. Moreover, the outcome of the presidential election shows that Obama was able to gain broad support in key states where voters had favored Clinton in the primary, such as Pennsylvania and Ohio.

Although the 2008 Democratic primary was unusually bitter, all of the subjects in our study were, nonetheless, supporters of the same political party who shared similar ideological beliefs. It is thus not clear how the flexible nature of group identity that we observe translates to more dissimilar and deep-rooted groupings, such as ethnicity or religion. However, the historical record shows many cases of disparate groups uniting in the face of a common enemy, for example (42, 43). The extent and rate at which such deeper and more conflict-ridden group identities can be remodeled is of practical importance for understanding...
contemporary conflicts. The degree to which these effects could be identified and measured through experimental economic games should be explored in the future.

Our study suggests that economic games such as the dictator game offer a potentially powerful tool for assessing political preferences. As in prediction markets (44), the financial incentives in these games may help reduce the tendency for politically correct “cheap talk,” such as the hypothesized Bradley effect (45), that is observed in traditional polling methods. Further studies exploring the promise of economic games for predicting political outcomes are needed.

An interesting aspect of solidarity revealed by our study is that after the DNC, in-group transfers among men decreased, as opposed to out-group transfers increasing. Previous studies suggest that on average women give more than men in the standard dictator game (46). Together with this observation, our results suggest that in-group favoritism increased altruistic giving among males within the group, rather than decreasing altruistic giving to out-group members. This implies that positive feelings toward in-group members (i.e., “in-group love”) were the motivation for in-group bias in our study, as opposed to negative feelings toward out-group members (i.e., “out-group hatred”) (47–49).

Both the gender effect and the increasing within-group cooperation in times of conflict may also shed light on the possible evolutionary roots of in-group favoritism. The fact that only men showed bias could be consistent with either evolutionary explanation. However, the mobilization of resources when confronted by an enemy, followed by a poststruggle demobilization, seems more consistent with an evolutionary rationale based on inter-group conflict than on reciprocity heuristics. Nevertheless, the precise mechanisms for evolution of in-group favoritism remain uncertain. The origins of solidarity and the role of dynamic group membership in the evolution of cooperation and in-group favoritism merit further empirical and theoretical study.

Materials and Methods

Between June 10 and Sept 5 2008, 395 Democrats were recruited from public spaces in Cambridge, MA to participate as dictators in a 1-shot modified dictator game (DG) (10). The average participant age was 30.3 years, and 58% were female. Another 395 Democrats were recruited in a similar way to act as dictator game (DG) (10). The average participant age was 30.3 years, and 58% were female. Another 395 Democrats were recruited in a similar way to act as dictators in a 1-shot modified dictator game in which she chose how to divides six $1 bills between herself (the dictator) and an anonymous other who was recruited at a later time (the recipient). The interaction was framed in neutral language, with the dictator referred to as “you” and the recipient as “the other person.” The only information the dictator received about the recipient was which candidate the recipient supported during the Democratic primary (Obama or Clinton). Dictators were shown photographs of the candidate supported by the dictator and the candidate supported by the recipient. Each dictator was given an envelope marked “You,” in which they put the money they chose to keep, and an envelope marked “Other Person” in which they put any money they chose to give away. The dictator was informed that any money put in the “Other Person” envelope would be doubled by the experimenters after the session, and then given to a recipient.

We chose to double any money given away by the dictator to increase the average transfer by providing an added incentive to give. In addition to altruism (caring about increasing the other’s payoff), dictators might also give out of a concern for efficiency (maximizing the total payoff of both players). Although this means that we cannot quantitatively compare the results from this setup with a standard dictator game, the nature of the bias we observe remains the same. It might be argued that there is an interaction between efficiency concerns and in-group bias, such that people care more about efficiency when interacting with in-group members compared with out-group members. However, such an interaction would tend to amplify the effects of bias by creating an even greater difference between in-group and out-group transfers. Thus, a decrease in bias using this design is even more compelling than in a standard dictator game.

In addition to making a decision in the modified dictator game, subjects reported their age and gender. Sample instructions are included in the SI. Each subject participated only once, was paired with only 1 recipient (either a supporter of Obama or Clinton), and did not know that the other conditions existed. This between-subject design minimizes the possibility of an experimenter demand effect for in-group bias.

To address changes over time, data were collected in 3 rounds: June 10–18, immediately after Hillary Clinton’s June 7 concession speech; August 7–14, preceding the August 25 start of the Democratic National Convention (DNC); and September 2–5, after the August 28 end of the DNC.

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