

Taking Aversion

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Abstract

We determine whether the moral cost of taking exceeds the moral cost of not giving. We design and conduct an experiment to determine whether a dictator prefers a giving game over a taking game when the payoff possibilities are identical and to measure the strength of the preference. We find that aversion to taking is prevalent and strong. Over 85% of the dictators in our experiment choose to play a giving game over a taking game when the payoff possibilities are identical and, on average, dictators are willing to sacrifice over 31% of their endowment to avoid taking.

Keywords: Taking; Dictator Game; Impure Altruism; Equivalent Variation

JEL Classifications: C91, D01, D64, H30, H41

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1. Introduction

Economists recognize that the institutional setting can affect social preferences. Andreoni and Miller (2002) write

Let γ be a vector of *attributes of a game*. This could include the specific economic variables like rules of the game, as well as social variables like the level of anonymity, the sex of one's opponent, or the *framing of the decision*, all of which are known to affect the outcome. Future work will have to explore the more general assumptions that for a given γ the preferences $U_s = u_s(\pi_s, \pi_o; \gamma)$ are well-behaved with respect to (π_s, π_o) [s and o denote self and other] and that these preferences shift systematically as γ changes (p. 738, emphasis added).

Several studies confirm that the ‘attributes of a game’ and ‘framing of the decision’ affect outcomes in dictator games. Lazear, Malmendier, and Weber (2012), Dana, Weber, and Kuang (2007), Dana, Cain, Dawes (2006) and Andreoni, Rao and Trachtman (2011) all report evidence that individuals prefer settings where they do not have to choose how much to give. In other words, these studies find that framing of the decision affects outcomes.

In this paper we also study whether framing as an attribute of a game matters. We ask whether individuals prefer a giving game to a taking game. A giving game endows the dictator with the money and the dictator chooses how much to give to the recipient. A taking game endows the recipient with the money and the dictator chooses how much to take from the recipient.¹ The two games have identical payoff possibilities when any payoff allocation in a giving game can be achieved in a taking game and vice versa.

Our hypothesis is that most people prefer a giving game to a taking game when the payoff possibilities are identical. We use Levitt and List’s (2007) model of moral cost and posit a greater moral cost associated with decision involving taking. We use a new experimental design that determines whether the dictator prefers a giving to a taking game and measures the strength of the preference. We find that most subjects prefer the giving game and that they are on average willing to sacrifice over 31% of their

¹ We focus on games where only one player receives the endowment and the dictator may transfer all of it. Other games may endow both players and some games limit how much the dictator may transfer.

endowment to avoid taking. These findings imply that the preference for giving over not taking is prevalent and strong.

The next section discusses previous studies on dictator games that compare final allocations in giving and taking settings. Section 3 sets the theoretical predictions for a theory of taking aversion. Section 4 describes the experimental design and procedures, while Section 5 reports the results from the experiments. Section 6 concludes with a discussion of the results.

2. Previous Results on Giving and Taking Games

To answer the question whether giving and taking games are equivalent institutional settings, several papers compare outcomes in a giving game to the outcomes in a taking game with identical payoff possibilities.² The results are mixed. Grossman and Eckel (2015), Dreber, Ellingsen, Johannesson and Rand (2013), Rubinstein (2014), and Kettner and Ceccato (2014) conduct experiments with a variety of procedures and fail to find significant differences in final outcomes. On the other hand, Korenok, Millner and Razzolini (2014), Oxoby and Sparragon (2008), and Cox, List, Price, Sadiraj and Samek (2015) find that the payoff to the recipient is greater in the taking game. Chowdhury, Jeon and Saha (2014) find support for both views. Eichenberger and Oberholzer-Gee (1998) report results in which the payoff to the dictator is greater in the giving game.

The details of these experiments differ. Grossman and Eckel (2015) use a real charity as the recipient and confront the dictator with a final allocation decision after starting from an initial allocation that gave \$20 to the dictator or \$20 to the charity. Dreber et al. (2013) conduct experiments in a physical laboratory and online using Amazon's Mechanical Turk. Rubinstein (2014) conducts experiments online with no money. Kettner and Ceccato (2014) find no significant effects of framing when controlling for the gender of the dictator and recipient, with genders being public information. Korenok et al. (2014)

² Another set of papers compares the outcomes in giving games to the outcomes of games that allow either giving or taking and find the outcomes not equivalent. See List (2007), Bardsley (2008), Cappelen, Nielsen, Sørensen, Tungodden, and Tyran (2013), Krupka and Weber (2013) and Korenok, Millner, and Razzolini (2014). Korenok, Millner, and Razzolini (2014) demonstrate that warm glow considerations imply that the outcomes may differ even when preferences are identical in the two settings.

use a within-sample design to compare the decisions dictators make in the two settings. Oxoby and Sparragon (2008) compare outcomes in a giving game when the dictator earns the endowment by answering correctly GMAT and GRE questions with outcomes in a taking game when the recipient earns the endowment. Chowdhury et al. (2014) find significantly greater payoffs to the recipient in the taking game when the dictator is female and insignificantly smaller payoffs when the dictator is male, so that any significant difference is eliminated in the pooled population. In Eichenberger and Oberholzer-Gee (1998), the dictator earns the endowment in both games.

Comparing final payoffs in the two games with different attributes cannot determine whether the dictator prefers one game over another for two reasons. First, outcomes can be identical when preferences are not. Second, payoff comparisons cannot reveal which utility is greater. Moreover, the comparison cannot reveal the magnitude of the difference. For example, if a person prefers giving to taking, comparing payoffs does not reveal whether the preference is strong or weak.

3. Theoretical Predictions

Levitt and List (2007) posit a mechanism through which changes in the institutional setting could affect utility. They develop a model that incorporates moral costs.

The choice of action affects the agent's utility through two channels. The first effect is on the individual's wealth The second effect is the nonpecuniary moral cost or benefit associated with the action Decisions which an individual views as immoral, antisocial, or at odds with his or her own identity (Akerlof and Kranton, 2000, 2005) may impose important costs on the decision maker (see also Gazzaniga, 2005). Framing the problem of utility maximization in this way yields several predictions. when the wealth-maximizing action has a moral cost associated with it, the agent will deviate from that action to some extent towards an action that imposes a lower moral cost. ... We envision the agent trading-off morality and wealth (Levitt and List, 2007, p. 156-7).

The moral cost may depend on many factors or attributes of the game: giving or taking frame, payoffs to the recipient and the dictator, property rights over the endowment, size of the endowment, etc. In this framework, when the moral cost of taking equals the moral cost of not giving and wealth is equal in both settings,

the dictator is indifferent between a giving game and a taking game. When the moral cost of taking is greater than the moral cost of not giving, the dictator prefers a giving to a taking game. Similarly, when the moral cost of taking is less than the moral cost of not giving, the dictator prefers a taking to a giving game.

The literature suggests that the moral cost of taking is generally greater than the moral cost of not giving. List (2007, p. 485) talks about a “moral cost” associated with decision involving taking. This moral cost can be interpreted as the desire not to look bad even when behavior is not observed by anybody. Dreber et al. expected the dictator to be “averse to taking” and to be concerned about “violating other’s entitlement” (2013, p. 351). Oxoby and Spraggon “conjecture that the legitimizing of assets creates property rights which participants’ observe” (2008, p. 704). Krupka and Weber “conjecture that social norms will differ over actions that involve ‘taking’ versus ‘giving,’ holding the resulting payoffs constant, in a manner that makes actions that involve ‘taking’ less socially appropriate” (2013, p. 502). Then, they present evidence that taking \$5 (\$4, \$3, \$2, \$1) in their bully version of a dictator game is less socially appropriate than giving \$0 (\$1, \$2, \$3, \$4) in a giving game, even though both actions yield the same payoffs to the two players.

Our hypothesis, therefore, is that the moral cost of taking exceeds the moral cost of not giving for most people. This leads to our first prediction:

Prediction 1: More than 50% of the dictators prefer a giving game to a taking game when the payoff possibilities are identical.

When a dictator prefers a giving game to a taking game with the same endowment, endowment in the giving game can be decreased to the point where the dictator is indifferent between the giving game with the lower endowment and the taking game with the original one. The endowment that a dictator is willing to sacrifice to play the giving game is similar to the equivalent variation in a standard consumer problem. In the consumer problem, the equivalent variation quantifies the change in utility between two regimes, usually involving two different prices. The equivalent variation is the change in

income, holding price constant, required to reach the same level of utility attained under the price in the new regime. In our case, we measure the endowment change in the giving game that would give a dictator the same level of utility as that attained in the taking game. In what follows, we interpret the endowment forgone as a measure of taking aversion.

The hypothesis that the moral cost of taking exceeds the moral cost of not giving for most people in terms of equivalent variation becomes our second prediction:

Prediction 2: On average, the equivalent variation is positive.

We do not anticipate that all dictators prefer the giving game to a taking game. Some dictators may be indifferent and others may prefer the taking game. For the indifferent dictators the equivalent variation is zero, and for the dictators who prefer the taking game it is negative.

4. Experimental Design and Procedures

The experiment consists of three phases. Phase One confronts the dictator with a choice between a giving game and a taking game with identical endowments. This choice is shown as Decision 1 in Table 1. If a dictator chooses the Give-only game in Phase One, in Phase Two she is then offered ten additional choices between a Give-only game with decreasing endowments and the Take-only game with \$20 endowment. These are shown as Decision 2 through 11 in Table 1. If a dictator chooses the Take-only game with \$20 endowment in Phase One, in Phase Two she is offered ten additional choices between a Take-only game with decreasing endowments and a Give-only game with \$20 endowment. The experiment concludes with Phase Three by having the dictators make an allocation decision for each of the 11 chosen games and then selecting one game at random to determine the final payoffs to the dictators and the recipients.

Table 1- Possible settings when the dictator chooses Give-only in Decision 1

Decision	Endowment in the Give-only setting	Endowment in the Take-only setting
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1	\$20	vs	\$20
2	\$19	vs	\$20
3	\$18	vs	\$20
4	\$17	vs	\$20
5	\$16	vs	\$20
6	\$15	vs	\$20
7	\$14	vs	\$20
8	\$13	vs	\$20
9	\$12	vs	\$20
10	\$11	vs	\$20
11	\$10	vs	\$20

The sequence of choices in Phases One and Two implements the following procedure. We begin by asking whether a dictator prefers giving or taking. If a dictator prefers giving, we take away \$1 from her endowment and ask if she still prefers giving. If she does, we take away another \$1 and ask again. We continue reducing the dictator's endowment until she switches to the Take-only game or her endowment is reduced all the way to \$10. The amount of endowment that the dictator is willing to forego, v , quantifies taking aversion. It measures how much endowment needs to be taken away from a dictator in the Give-only game to make her as miserable as she is in the Take-only game.

Consider, for example, a dictator who prefers the Give-only games with endowments of \$20, \$19 and \$18 and switches to the Take-only game when the endowment is reduced to \$17. These choices reveal that the dictator is willing to give up \$2 of endowment to avoid taking but not \$3; therefore, $\$2 \leq v \leq \3 . If a dictator prefers the Take-only game with endowments of \$20, \$19 and \$18 and switches to the Give-only game when the endowment is reduced to \$17, then her choices reveal that she is willing to give up \$2 to avoid giving but not \$3. In this case we measure taking aversion as a negative of the endowment she is willing to forgo; therefore, $-\$3 \leq v \leq -\2 .

Experimental Procedures

The experiment was conducted in five sessions in the Experimental Laboratory for Economics and Business Research at Virginia Commonwealth University during the spring of 2014. A total of 121 subjects participated in the experiment. Upon arrival, subjects were randomly seated at visually isolated computer terminals and given a set of instructions, which were later read aloud by the experimenter. Instructions are provided

in the Appendix. After reading the instructions, subjects were given a quiz to check understanding of how decisions in the experiments would affect final payoffs. Throughout the session, communication between subjects was prohibited; partitions around computer terminals prevented subjects to be observed by the experimenter and by the other subjects and all information and choices were transmitted through computers using the program z-Tree (Fischbacher, 2007).

First, each participant selected one recipient from a list of ten charities. Next, in Phase One, the computer presented to each subject the first decision: the choice between the Give-only and the Take-only games, both with \$20 endowment.³ In Phase Two, the computer presented ten additional decisions. All ten decisions appeared simultaneously on the computer screen and dictators were allowed to switch the regime only once.⁴

In Phase Three, the computer presented the subjects with the 11 games selected in Phases One and Two, and the subjects determined how much to give or to take in each game. The computer then randomly selected one of the 11 choices for payment and transmitted the outcome to the dictator. After the participants recorded the selected decision and the payoffs on their own personal record sheet and completed a questionnaire, to preserve anonymity, subjects proceeded to be paid privately by an assistant not involved with the experiment. Average earnings for the students were \$17, which included a \$5 participation fee. Average earnings for the charities were \$6.74.

5. Results

Finding 1: Most dictators are averse to taking relative to giving when the endowments are identical.

The results support our first prediction that more than 50% of the dictators prefer a giving game to a taking game with identical endowments. Table 2 reports the number of dictators expressing preferences for the Give-only and Take-only games. When offered in

³ To account for a left-side bias, for 32 subjects, the screen display reversed the order in which the two choices were presented in Phase One, with the Take-only option listed first.

⁴ In case of multiple switches, an error message appeared instructing the subject to revise her choices.

Decision 1 the choice between two games with identical endowments and payoff possibilities, 86% of the participants, 104 out of 121, choose the giving game. Using a binomial test, this percentage is greater than 50% at the 5% significance level.⁵ If we exclude the nine selfish dictators, the percentage of dictators choosing the giving game in Decision 1 is 85%, 95 out of 112. This percentage is still greater than 50% at the 5% significance level.

Table 2 – Number of Subjects and their Choices

	Choose Give-only in Decision 1	Choose Take-only in Decision 1	Total
Total	104	17	121
Selfish ⁶	9	0	9
Non-Selfish	95	17	112
Non-Selfish Who Switch	63	9	72
Non-Selfish Who Never Switch	32	8	40
Make Decision in Give-only with \$20	104	9	113

The behavior of the selfish dictators is striking and consistent with a weak preference for giving over taking. All nine selfish dictators choose the giving game over the taking game in Decision 1 and switch to the taking game as soon as the endowment in the giving game is decreased by \$1. This would occur when the equivalent variation is less than \$1. Assuming dictators are indifferent between giving and taking, the probability that all nine choose the giving game in Decision 1 is $0.5^9 = 0.002\%$.

Finding 2: On average, the equivalent variation is positive.

The results support our second prediction. Table 3 shows the number of non-selfish dictators expressing preferences for the giving and taking games in each of the 11 decisions and the equivalent variations the choices reveal. The average equivalent variation is 4.14, 6.23 for the 95 non-selfish dictators who choose the giving game in

⁵ The order in which the choice between Give-only and Take-only games was presented to the subjects did not matter; no statistical significant difference exists in subjects' behavior. Therefore, the data are pooled together.

⁶ We classify as selfish nine participants who choose the giving game in Decision 1, give \$0, switch immediately to the taking game when the endowment in the giving game is reduced to \$19, and take \$20. This set of choices always maximizes the dictator's monetary payoff.

Decision 1 and -7.53 for the 17 who choose the taking game.⁷ In other words, the mean equivalent variation of the utility loss suffered when the regime changes from giving to taking is just over 20% of the original \$20 endowment. Two statistical tests confirm that the equivalent variation tends to be positive. The central tendency is significantly greater than \$0 at the 1% level of significance using either a t-test or the Wilcoxon sign-rank test.

Table 3 – Choices and Equivalent Variations

Decision	# prefer giving game	# switch to taking game	v	# prefer taking game	# switch to giving game	v
1	95			17		
2	85	10	$0 \leq v \leq 1$	16	1	$-1 \leq v \leq 0$
3	81	4	$1 \leq v \leq 2$	16	0	$-2 \leq v \leq -1$
4	77	4	$2 \leq v \leq 3$	16	0	$-3 \leq v \leq -2$
5	75	2	$3 \leq v \leq 4$	16	0	$-4 \leq v \leq -3$
6	69	6	$4 \leq v \leq 5$	12	4	$-5 \leq v \leq -4$
7	51	18	$5 \leq v \leq 6$	11	1	$-6 \leq v \leq -5$
8	46	5	$6 \leq v \leq 7$	11	0	$-7 \leq v \leq -6$
9	41	5	$7 \leq v \leq 8$	11	0	$-8 \leq v \leq -7$
10	35	6	$8 \leq v \leq 9$	11	0	$-9 \leq v \leq -8$
11	32 ⁸	3	$9 \leq v \leq 10$	8 ⁹	3	$-10 \leq v \leq -9$

The choices are heterogeneous. This heterogeneity is consistent with Levitt and List’s theory of moral cost. “When individuals follow different moral codes, they will generally make different choices when faced with the same decision problem” (Levitt and List, 2007, p. 157).

When dictators choose giving games with ever lower endowments, they reduce the payoff to themselves and the recipients. The payoff they sacrifice is another measure of the strength of the aversion to taking. For the 95 dictators who choose the Give-only game in Decision 1, the average payoff in the Give-only game in Decision 1 is \$13.69, while their average payoff in the last Give-only game selected is \$10.15. Thus, dictators, on average, sacrifice \$3.54 of payoff, or about one-fourth of the average payoff attained when the endowment is \$20. The aversion to taking is costly for the recipients as well.

⁷ To compute the average, we used the lower bound when v is positive and the upper bound when v is negative.

⁸ $v \geq 10$ for the 32 dictators that prefer giving in decision 11.

⁹ $v \leq -10$ for the 8 dictators that prefer taking in decision 11.

Since dictators sacrifice, on average, \$6.23 of endowment and \$3.54 of their own payoff to avoid switching to the taking game, recipients bear just under half of the reduction in endowment. The average payoff in the Take-only game with \$20 endowment for the 63 dictators who choose the Give-only game in Decision 1 and switch to Take-only subsequently is \$9.42, while their payoff in the last Give-only game is \$11.74. Thus, these dictators, on average, sacrifice \$2.32 of payoff when they switch.

Comparisons with Previous Studies

The allocations in the giving game with \$20 endowment are similar to the allocations previously observed in traditional dictator games. Many experimental studies (for a meta-study, see Engel 2011) report that in a traditional dictator game, on average, 70% of dictators give a positive amount and the average gift is about 25% of the dictator’s endowment. Table 2 shows that a total of 113 dictators in our experiment make an allocation decision in the giving game with \$20 endowment. In this game, 86.7% of these dictators give a positive amount. Table 4 shows that the average gift was \$5.71, about 28.58% of the endowment. We attribute the somewhat higher percentage of givers to the fact that dictators give to a charity of their choice instead of giving to other participants in the experiment. This is consistent with Eckel and Grossman’s (1996) original study on the effect of using charities as recipients in dictator games.

Table 4 – Average Payoff to Recipient

	# Dictators	Average π_R in Give-only with \$20 endowment(\$)	Average π_R in Take-only with \$20 endowment(\$)
Dictators who make a decision in Give-only with \$20 endowment	113	5.71	
Dictators who make decisions in both Give-only and Take-only with \$20 endowments	72	5.18	10.10

Our results are also consistent with previous studies by Korenok, Millner and Razzolini (2014), Oxoby and Sparragon (2008), and Chowdhury, Jeon and Saha (2014) that find that the payoff to the recipient is greater in the taking game than the giving game when

the endowments are identical.¹⁰ Table 4 shows that 72 non-selfish dictators make allocation decisions in both giving and taking games with \$20 endowment.¹¹ The recipients' average payoff increases from \$5.18 in the giving game to \$10.10 in the taking game. Three tests (t-test, Wilcoxon sign-rank test, or the sign test) confirm that this difference is significant at the 5% significance level.

6. Discussion

We find that aversion to taking is prevalent and strong. A large majority of dictators express a preference to play a giving game over a taking game when the payoff possibilities are equal. When we exclude selfish dictators, we find that dictators are willing to sacrifice 31% of a \$20 endowment to play a giving game instead of a taking game.

Our results support Levitt and List's (2007) model of social preferences. They suggest that action in a dictator game is affected by moral cost. We find evidence consistent with the hypothesis that the moral cost of taking is greater than the moral cost of not giving.

Evidence that charities fare better in terms of final payoff when the dictator's allocation is framed as taking from the charity's endowment rather than as giving from her own endowment may suggest that framing charitable contributions as taking could potentially lead to higher donations. However, an implication of our findings is that aversion to taking may discourage potential donors from participating in campaigns when donations are framed as taking rather than giving. Consider, for example, a campaign that lists a suggested donation or pay-what-you-want offer with a suggested price. Donors who want to contribute less may view the smaller contribution as taking from the charity. In that case, they may avoid the campaign completely.

The implications of our findings may extend to the debate on the origins of property rights. Aversion to taking is consistent with the contention that "the sense of ownership of property is hardwired into the human psyche and precedes and underlies the advent of

¹⁰ While the results are consistent, we acknowledge that our design is more complex since dictators may make additional decisions before switching to the other game.

¹¹ The 40 dictators who never switch regimes make allocations decisions in only one type of game.

formal legal institutions” (Eswaran and Neary, 2014, p. 203) and inconsistent with the contention that property rights exist only when the legal system assigns and enforces them. In our experiment, the probability of punishment is nil when the dictator takes. According to Stake (2004) evolutionary theory suggests that property rights have deep roots. Aversion to taking is also consistent with the contention that social norms are sufficient to establish property rights. The finding is inconsistent with the labor theory of property since no one earns the property at risk in the experiment.

The implications may also extend beyond dictator games and charitable contributions because opportunities to take abound in society. Lazear, Malmendier and Weber (2012) and other studies show that dictators prefer not playing giving games when given a choice. We find that dictators prefer a giving game to a taking game. Together our results imply that dictators would prefer not playing a taking game when given a choice. Casual observation confirms that taking does not always occur when the option exists. Many people do not steal even when they have the opportunity to do so without detection. To the contrary, strangers often return lost items to their owners. Corruption levels vary and are low in many countries and cultures. We speculate that taking aversion limits the extent of corruption and theft. These issues are, of course, beyond the scope of the present paper. They do, however, suggest that a better understanding of other-regarding preferences and taking aversion may provide insights into questions that extend beyond dictator games and charitable giving.

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Online Supplement to “Taking Aversion” by Oleg Korenok, Edward L. Millner, and Laura Razzolini

INSTRUCTIONS

Please fill in the date, your social security or student ID number, your name, and your address on the top portion of the receipt while you wait for everyone to find a seat. Doing so reduces the time spend processing payments at the end of the experiment. The University requires receipts for accounting purposes. The monitor in the room does not collect or see them. You give them to an assistant sitting outside of the room when you leave to collect your payment for today’s experiment.

You may read the following instructions silently after you complete the top portion of the receipt. The monitor reads them aloud after everyone is seated.

Welcome

The purpose of this experiment is to study decision-making related to economic situations. A research foundation has provided the funds for this experiment. We estimate that you will complete the experiment within one hour.

During the experiment you make decisions related to economic situations at your computer terminals. You will receive a \$5 show-up fee. You may also earn additional money depending on the decisions that you and the other participants make.

Please raise your hand at any point if you have any questions about the instructions or if you wish to cease your participation. You may cease participation at any point; if you do you will receive the \$5 show-up fee but will not receive any additional compensation.

Minimum age

Please visit the monitor if you are 17 years old or younger. Research protocols at VCU require participants to be at least 18 years old.

Anonymity

Your participation will be anonymous. No one, including the researchers, will be able to identify your decisions once the experiment is completed. At the end of the experiment you are paid privately and in cash. In order to keep your decisions private, *please do not reveal your choices to any other participant.*

Risks, benefits, and cost

Participation in this experiment does not impose any risks in addition to those you encounter in your day-to-day activities. The primary benefit of the study is to advance our understanding of decision-making in economic settings. You may gain some educational benefit. The only cost to you of participation is your time.

Materials

You should have:

1. a piece of paper with a 5-digit code and

2. instructions
3. Survey

The 5-digit code is a unique identifier and helps preserve the anonymity of your decisions. It allows the monitors in the room to match you with your earnings without learning your name.

Charity

In today's experiment you will be paired with a charity of your own choosing selected from the list of ten different charities listed below. Your decisions today will determine whether and how much money you earn and whether and how much money a charity receives. When the experiment begins the computer asks you to indicate your choice of charity. You must select only one charity.

American Cancer Society

Provides many services to cancer patients and their families such as information, medical equipment, transportation to treatment locations, and a support system.

American Red Cross

Offers blood donation information and services, disaster relief, many helpful educational classes, as well as HIV/AIDS support groups.

Big Brothers Big Sisters

Provides one-to-one mentoring for youth and children residing in a one parent family for the purpose of creating confident and competent young adults.

Sierra Club

Protect and preserves environmentally sensitive areas.

Doctors Without Borders

Doctors and nurses volunteer to provide urgent medical care to some 70 countries to civilian victims of war and disasters regardless of race, religion, or politics.

YMCA

Provides parents visitation monitoring services and physical fitness services.

Feed the Children

Provides food, clothing, medical care, education and emergency relief to children in the United States and overseas since 1979.

Safe Harbor Shelter

Provides safe shelter to battered women and their children, as well as food and clothing, assistance with legal, medical and financial problems, and information/support groups in Richmond, VA.

Oxfam America

Invests privately raised funds and technical expertise in local organizations around the world that hold promise in their efforts to help poor move out of poverty: committed to long term relationships in search of lasting solutions to hunger, poverty, and social inequities.

National Public Radio

Non-profit media organization that reports on the environment, health, education, international news, and much more, each and every day.

After selecting a charity, you will make a series of decisions. At the conclusion of the experiment, the computer will pick one decision at random. The choice you make in this decision determines the charity's and your earnings. Since the computer may select any decision, you should make each choice carefully.

Decisions

You will make decisions in three phases.

Phase 1: In Phase 1 the computer shows you Decision 1 with two options:

Option A: You have \$20 and you may give some to charity.

Option B: The charity has \$20 and you may take some from charity.

You will choose which of the two options you prefer. How you choose between Option A and Option B is entirely a question of personal preference—there is no right or wrong answer.

Phase 2: In Phase 2 the computer presents you with ten more decisions that are similar to Decision 1 and you choose whether you prefer option A or option B.

Again, how you choose between Option A and Option B is a question of personal preference—there is no right or wrong answer. The only restriction on your choices occurs if you choose Option B. If at some point you choose Option B, then, in all subsequent decisions you must keep choosing Option B. The reason is that, in subsequent decisions, Option B becomes relatively more attractive.

Phase 3: In Phase 3 you choose how much you actually want to give or to take in each of the options you chose earlier. On the computer screen you will see a table with two columns. The first column shows the options you have selected in Phase 2. In the second column, you will enter the amount to give or to take for each decision. How much you give or take is a question of personal preference—there is no right or wrong answer. The only restriction on your choices occurs if you choose Option B more than once in Phase 2. If you chose Option B more than once, you must enter the same amount for each decision where you chose Option B. The reason is that the Option B is always the same.

Earnings

After you complete Phase 3, the computer randomly selects one of the 11 decisions from Phase 3 to implement for payment. The decision you made there determines your earnings. If the computer selects a decision in which you choose to give, you earn the amount of money you had less what you gave and the charity receives what you gave to it. If the computer selects a decision in which you choose to take, you earn what you took and the charity receives whatever it had less what you took.

ID

The computer will ask to enter your 5-digit ID at the beginning of the experiment.

Payment to charity

At the end of the experiment, the experimenter will calculate the total amount received by each charity and will proceed to go online on each charity’s website to make a credit card payment for the corresponding amount. Anyone who wishes to observe the payment is welcome stay at the conclusion of the experiment.

Please raise your hand if you have a question. We will now proceed to two Practice Scenarios.

Practice

Practice Scenario 1. Consider the following hypothetical scenario. You have chosen:

Option A: You have \$3 and you may give some to charity.
In Phase 3 you will see the following:

Option Chosen	GIVE \$
You have \$3. How much do you want to give to the charity?	

What is the most you could give?
What is the least you could give?

The following shows four possible amounts you could give. Compute in each case the amount of money that you will earn and that the charity will receive.

Option Chosen	GIVE \$	You earn \$	Charity receives \$
You have \$3. How much do you want to give to the charity?	3		
You have \$3. How much do you want to give to the charity?	2		
You have \$3. How much do you want to give to the charity?	1		
You have \$3. How much do you want to give to the charity?	0		

Practice Scenario 2. Consider the following hypothetical scenario. You have chosen:

Option A: The charity has \$3 and you may take some from charity.

In Phase 3 you will see the following:

Option Chosen	TAKE \$
Charity has \$3. How much do you want to take from the charity?	

What is the most you could take?

What is the least you could take?

The following table shows four possible amounts you could take. Compute in each case the amount of money that you will earn and that the charity will receive.

Option Chosen	TAKE \$	You earn \$	Charity receives \$
Charity has \$3. How much do you want to take from the charity?	3		
Charity has \$3. How much do you want to take from the charity?	2		
Charity has \$3. How much do you want to take from the charity?	1		
Charity has \$3. How much do you want to take from the charity?	0		

We now begin the experiment.