AV Outrage

Start of Block: Consent

consent info

Social Decision-Making

Please consider this information carefully before deciding whether to participate in this research.

Purpose of the research: The purpose of the research is to investigate participants' thoughts and feelings in response to social interactions.

What you will do in this research: At the beginning and end of the study, you may complete several self-report questionnaires that contain questions about thoughts, feelings, and personality attributes. You will be asked to either view words, photos, symbols, or animated scenes that look like video games, and to make decisions about these items. You may be asked to interact with another person.

Time required: Participation will take approximately 1-5 minutes to complete.

Risks: There are no anticipated risks associated with participating in this study. The effects of participating should be comparable to those you would experience from viewing a computer monitor for the time listed above and using a mouse or keyboard.

Benefits: At the end of the study, we will provide a thorough explanation of the study and of our hypotheses. We will describe the potential implications of the results of the study both if our hypotheses are supported and if they are disconfirmed. If you wish, you can send an email message to Mina Cikara (mcikara@fas.harvard.edu) and we will send you a copy of any manuscripts based on the research (or summaries of our results).

Compensation: You will be compensated at a rate of \$6/hour for your participation. Therefore if the study takes 5 minutes, you will receive \$0.50. In addition, some of the activities may involve a monetary reward of up to 50% of your base compensation. You will not receive payment unless you complete the study.

Confidentiality: Your participation in this study will remain confidential and there will be no link between your responses and your identity. All electronic data will be password-protected. In accordance with Open Science principles, we may post non-identifiable data on a publicly accessible website (e.g., Open Science Framework: https://osf.io/). It is expected that aggregate data will be published in a scholarly journal.

Participation and withdrawal: Your participation in this study is completely voluntary, and you may choose not to participate or choose to withdraw at any time without penalty or loss of benefits to which you are otherwise entitled. You may withdraw by closing the survey window. You will not be compensated unless you complete the task.

How to contact the requester: Should you have any logistical issues with Mechanical Turk or the online task (e.g., technological errors, receipt of payment issues, glitches in the experiment, etc.) please contact the Mechanical Turk requester directly via the Mechanical Turk messaging interface; Contact the Requester

How to contact the researchers: Should you have any questions about the research (e.g., hypothesis, findings, etc.), please contact the researcher: Mina Cikara, Assistant Professor of Psychology, 617.495.3819; 1420 William James Hall, 33 Kirkland St, Cambridge, MA 02138; mcikara@fas.harvard.edu.

Whom to contact about your rights in this research: Should you have an questions about your rights as a research participant or any concerns about the research that cannot be addressed by the researcher, or to report research-related harm, please contact the Committee on the Use of Human Subjects in Research at Harvard University, 44-R Brattle Street, Suite 200, Cambridge, MA 02138. Phone: 617-496-2847. Email: cuhs@harvard.edu

Please print or save a copy of this form for your records

riouse print of save a sopy of this form for your resords.
consent_age I am age 18 or older.
○ Yes (1)
O No (2)
consent_understand I have read and understand the information above.
○ Yes (1)
O No (2)

consent_participate I want to participate in this r	esearch and continue with the task.
○ Yes (1)	
O No (2)	
End of Block: Consent	
Start of Block: Attention Check #1	
attention_check_1 This is an attention check. than X, and Z is larger than Y. Please also ma	-
X ()	
Y ()	
Z ()	
	•
attention_check_2 How many fatal heart attac	ks have you had?
O (1)	
O 1 (2)	
O 10 (3)	
O 100 (4)	
O 1000 (5)	
End of Block: Attention Check #1	
Start of Block: Intentional, Kills Child	

intentional_child Read the scenario below about a self-driving car carefully. Once you are finished, you will be asked to answer some questions about it.

Noah buys a robocar that has been programmed to favor elderly people over children. If it is ever faced with no other choice but to hit and kill an elderly person versus a child, it will deliberately choose to kill the child and save the elderly person. One day, Noah's robocar is faced with this choice, and it deliberately kills the child.

End of Block: Intentional, Kills Child

Start of Block: Page 1: Blameworthiness Questions

intentional child You will now answer some questions about the scenario.

Noah buys a robocar that has been programmed to favor elderly people over children. If it is ever faced with no other choice but to hit and kill an elderly person versus a child, it will deliberately choose to kill the child and save the elderly person. One day, Noah's robocar is faced with this choice, and it deliberately kills the child.

blame_noah Noah is

| Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar is | Not blame_trobocar The robocar Indicate The robocar Indi

Not blameworthy

blame_robodrive The robocar manufacturer, called RoboDrive, is

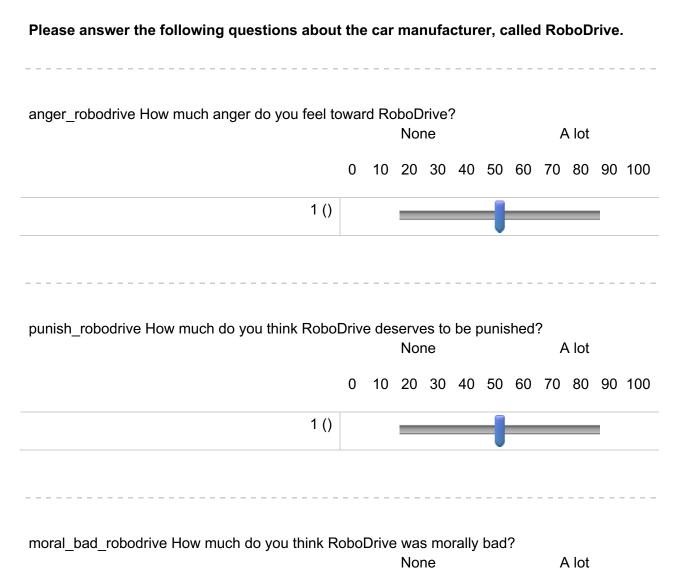
Very blameworthy



End of Block: Page 1: Blameworthiness Questions

Start of Block: Page 2: Moral Outrage Questions

moral_outrage Noah buys a robocar that has been programmed to favor elderly people over children. If it is ever faced with no other choice but to hit and kill an elderly person versus a child, it will deliberately choose to kill the child and save the elderly person. One day, Noah's robocar is faced with this choice, and it deliberately kills the child.



1 ()

End of Block: Page 2: Moral Outrage Questions

or causes that accuse RoboDrive?

Start of Block: Page 3: Collective Action Questions

intentional_child Noah buys a robocar that has been programmed to favor elderly people over children. If it is ever faced with no other choice but to hit and kill an elderly person versus a child, it will deliberately choose to kill the child and save the elderly person. One day, Noah's robocar is faced with this choice, and it deliberately kills the child.

Please answer the following questions about the car manufacturer, called RoboDrive.

donate_robodrive How likely do you think it is that you would donate money to organizations that accuse RoboDrive?

Extremely unlikely

Extremely likely

0 10 20 30 40 50 60 70 80 90 100

1 ()

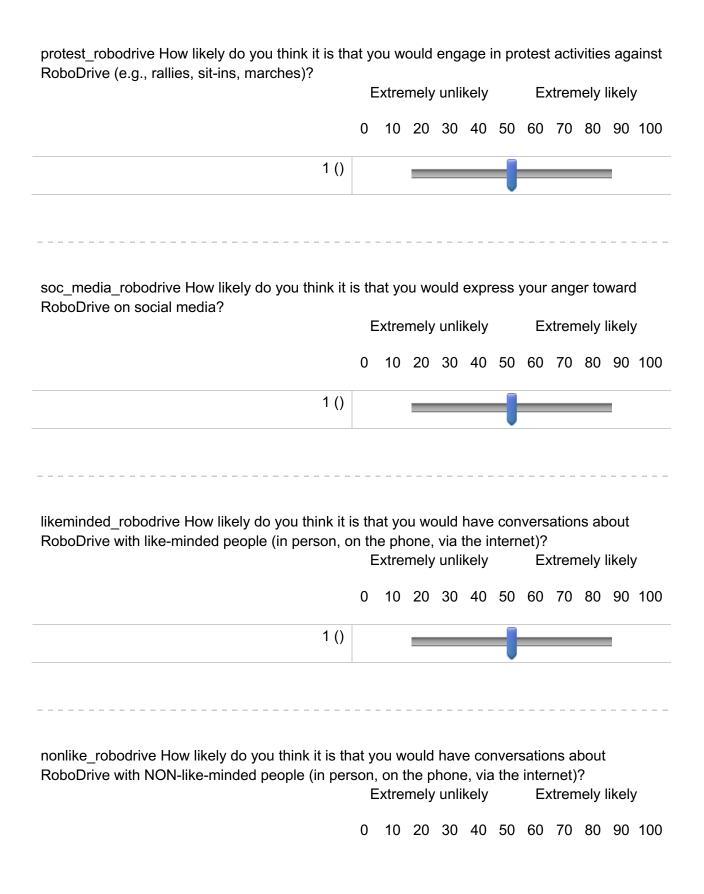
volunteer robodrive How likely do you think it is that you would volunteer time to organizations

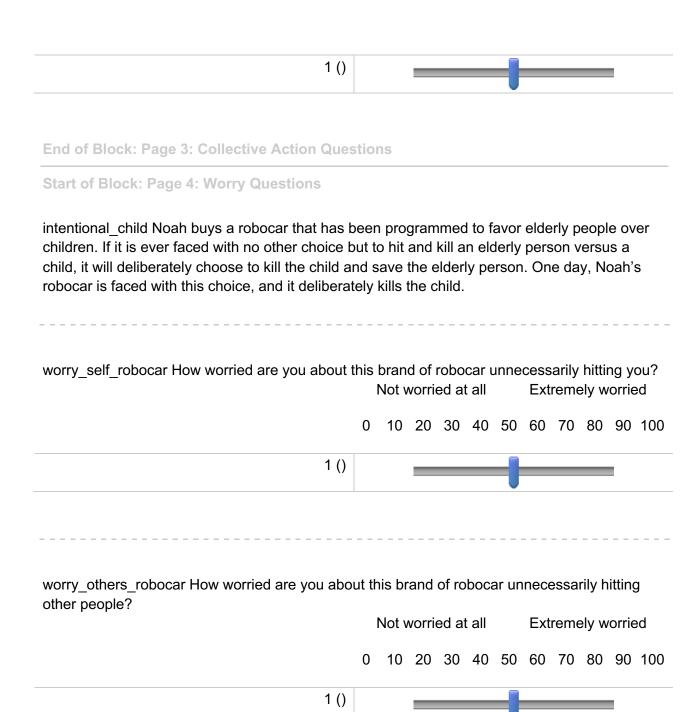
Extremely unlikely

Extremely likely

0 10 20 30 40 50 60 70 80 90 100

1 ()

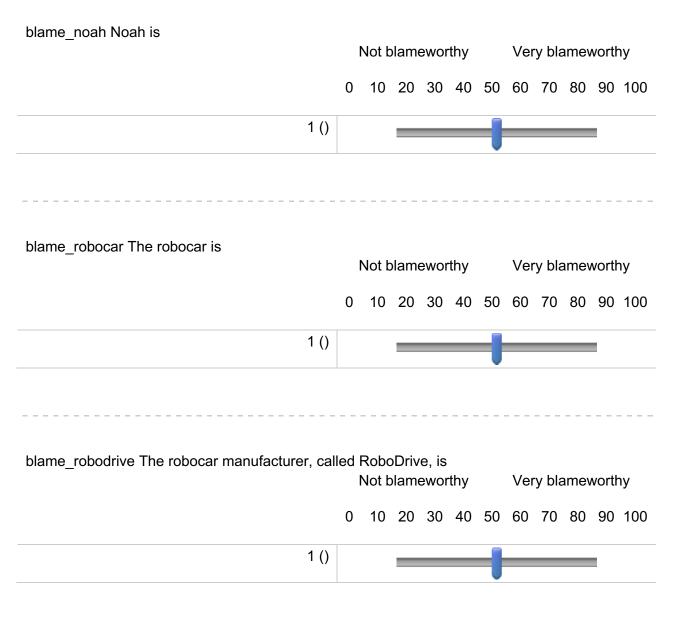




End of Block: Page 4: Worry Questions

Start of Block: Attention Check #2

AC_3_intent_child Did the Robocar kill a person deliberately, randomly, or neither?
Opeliberately (1)
O Randomly (2)
O Neither (3)
AC_4_intent_child Did the robocar kill a child, an elderly person, or neither?
Ohild (1)
O Elderly person (2)
O Neither (3)
End of Block: Attention Check #2
Start of Block: Intentional, Kills Elderly
intentional_elderly Read the scenario below about a self-driving car carefully. Once you are finished , you will be asked to answer some questions about it.
Noah buys a robocar that has been programmed to favor children over elderly people. If it is ever faced with no other choice but to hit and kill an elderly person versus a child, it will deliberately choose to kill the elderly person and save the child. One day, Noah's robocar is faced with this choice, and it deliberately kills the elderly person.
End of Block: Intentional, Kills Elderly
Start of Block: Page 1: Blameworthiness Questions
intentional_elderly You will now answer some questions about the scenario.
Noah buys a robocar that has been programmed to favor children over elderly people. If it is ever faced with no other choice but to hit and kill an elderly person versus a child, it will deliberately choose to kill the elderly person and save the child. One day, Noah's robocar is faced with this choice, and it deliberately kills the elderly person.

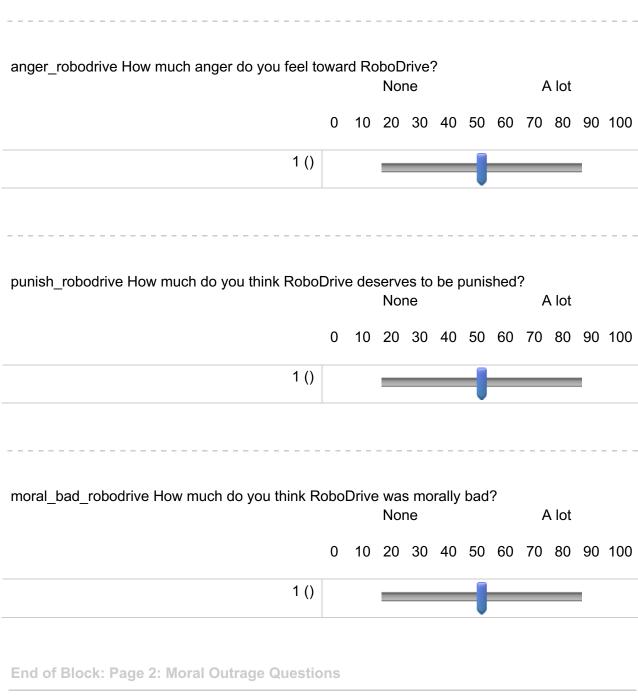


End of Block: Page 1: Blameworthiness Questions

Start of Block: Page 2: Moral Outrage Questions

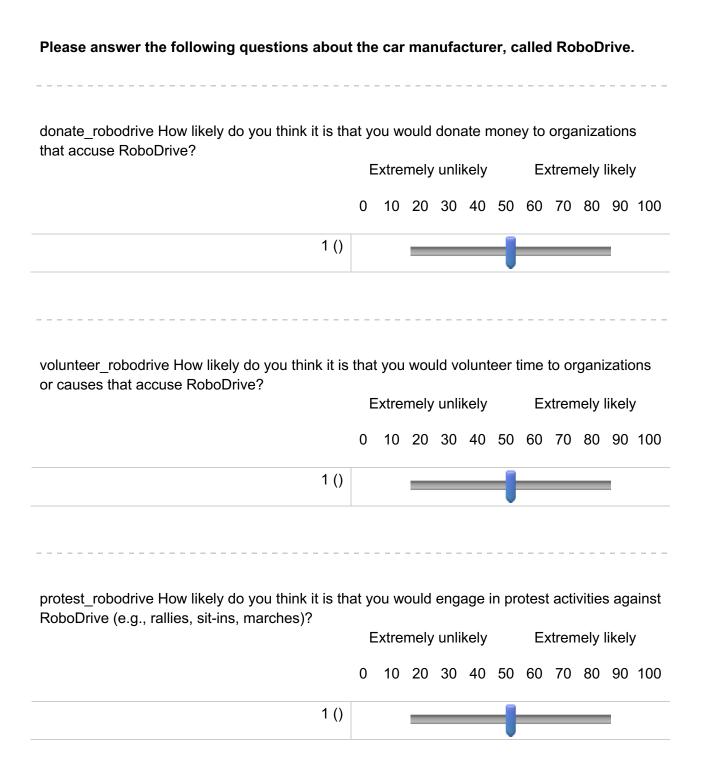
intentional_elderly Noah buys a robocar that has been programmed to favor children over elderly people. If it is ever faced with no other choice but to hit and kill an elderly person versus a child, it will deliberately choose to kill the elderly person and save the child. One day, Noah's robocar is faced with this choice, and it deliberately kills the elderly person.

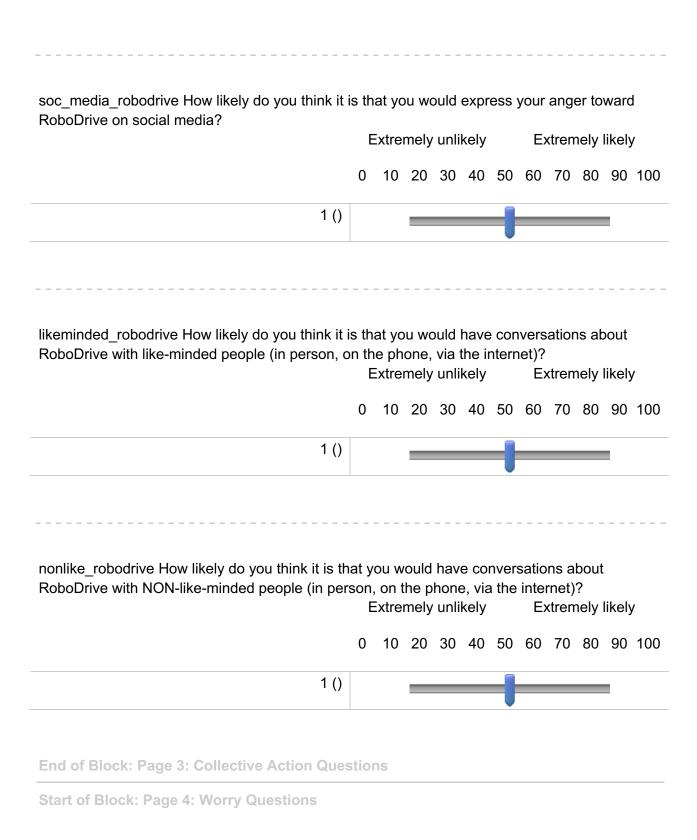
Please answer the following questions about the car manufacturer, called RoboDrive.



Start of Block: Page 3: Collective Action Questions

intentional_elderly Noah buys a robocar that has been programmed to favor children over elderly people. If it is ever faced with no other choice but to hit and kill an elderly person versus a child, it will deliberately choose to kill the elderly person and save the child. One day, Noah's robocar is faced with this choice, and it deliberately kills the elderly person.

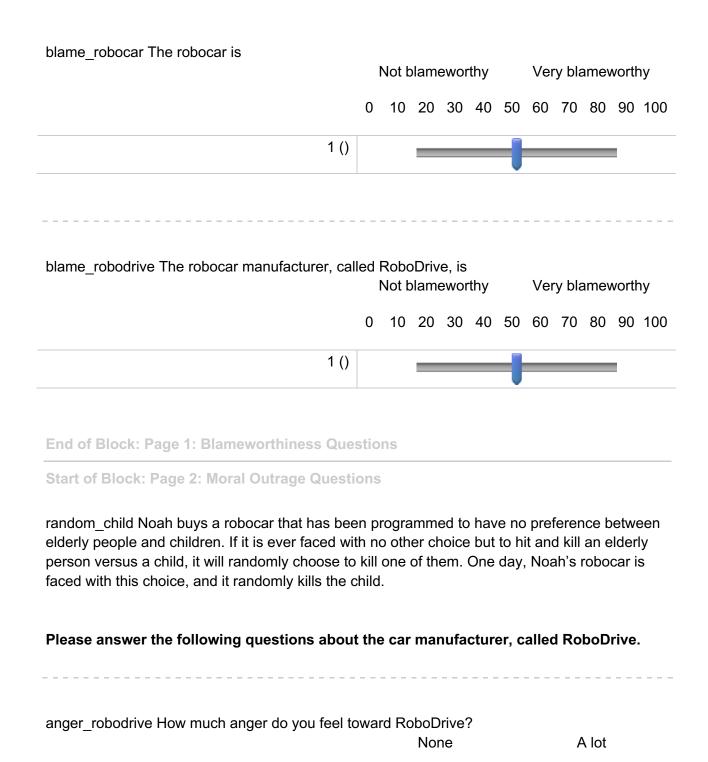




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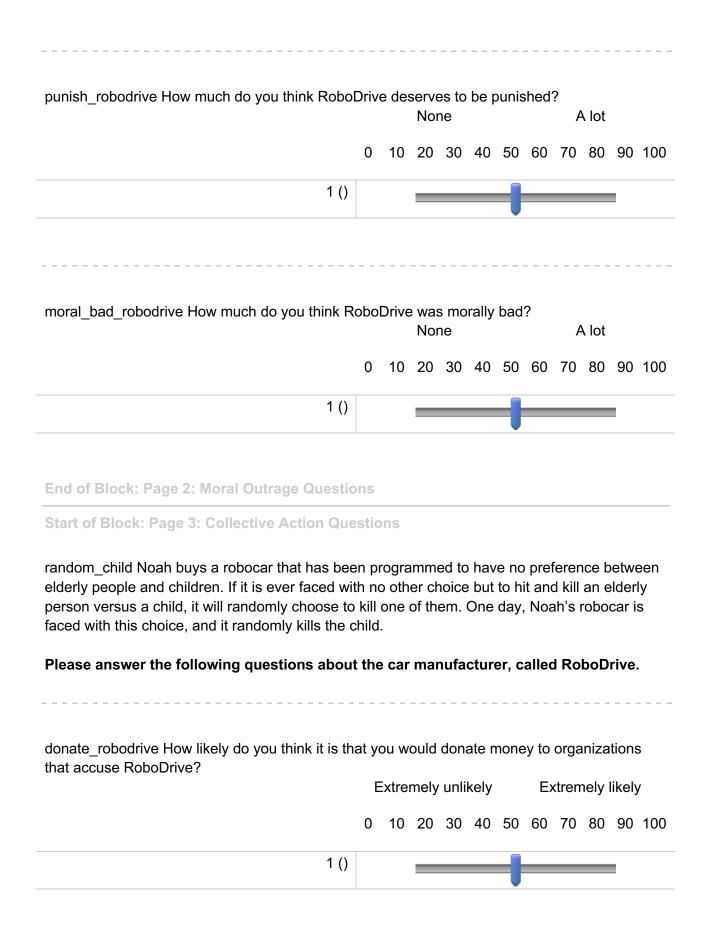
intentional_elderly Noah buys a robocar that has been programmed to favor children over elderly people. If it is ever faced with no other choice but to hit and kill an elderly person versus a child, it will deliberately choose to kill the elderly person and save the child. One day, Noah's robocar is faced with this choice, and it deliberately kills the elderly person.											
worry_self_robocar How worried are you about this brand of robocar unnecessarily hitting you? Not worried at all Extremely worried											
	0	10	20	30	40	50	60	70	80	90	100
1 ()						-					
worry_others_robocar How worried are you aboother people?		Not v	worri	ed at	t all		Ext	reme	ely w	orrie	
						J				_	
End of Block: Page 4: Worry Questions Start of Block: Attention Check #2 AC_3_intent_elderly Did the Robocar kill a per O Deliberately (1)	rsor	n del	ibera	ately	, rar	ndor	nly,	or ne	eithe	er?	

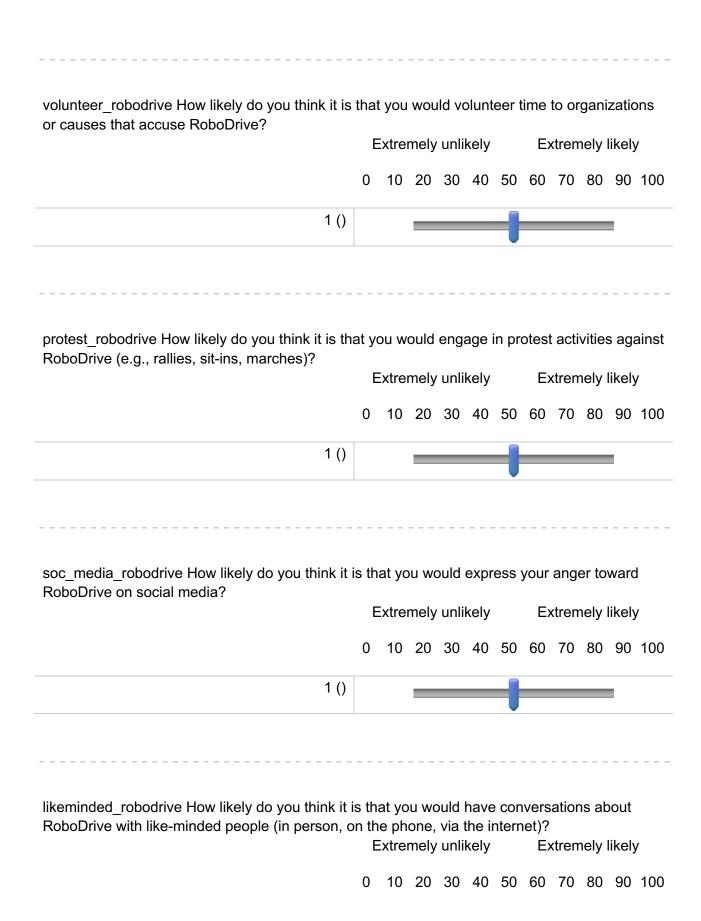
AC_4_intent_elderly Did the robocar kill a child	d, an elderly person, or neither?
Ohild (1)	
C Elderly person (2)	
O Neither (3)	
End of Block: Attention Check #2	
Start of Block: Random, Kills Child	
random_child Read the scenario below about a finished , you will be asked to answer some q	
Noah buys a robocar that has been programme and children. If it is ever faced with no other chochild, it will randomly choose to kill one of them. choice, and it randomly kills the child.	• •
End of Block: Random, Kills Child	
Start of Block: Page 1: Blameworthiness Que	estions
random_child You will now answer some ques	stions about the scenario.
Noah buys a robocar that has been programme and children. If it is ever faced with no other choichild, it will randomly choose to kill one of them. choice, and it randomly kills the child.	• •
blame_noah Noah is	Not blameworthy Very blameworthy
	0 10 20 30 40 50 60 70 80 90 100
1 ()	



1 ()

10 20 30 40 50 60 70 80 90 100







1 ()	
End of Block: Page 4: Worry Questions	
Start of Block: Attention Check #2	
AC_3_random_child Did the Robocar kill a per	rson deliberately, randomly, or neither?
O Deliberately (1)	
Randomly (2)	
O Neither (3)	
AC_4_random_child Did the robocar kill a chil	d, an elderly person, or neither?
Ohild (1)	
C Elderly person (2)	
O Neither (3)	
End of Block: Attention Check #2	
Start of Block: Random, Kills Elderly	

random_elderly **Read the scenario below** about a self-driving car **carefully. Once you are finished, you will be asked to answer some questions about it.**

Noah buys a robocar that has been programmed to have no preference between elderly people and children. If it is ever faced with no other choice but to hit and kill an elderly person versus a child, it will randomly choose to kill one of them. One day, Noah's robocar is faced with this choice, and it randomly kills the elderly person.

End of Block: Random, Kills Elderly

Start of Block: Page 1: Blameworthiness Questions

End of Block: Page 1: Blameworthiness Questions

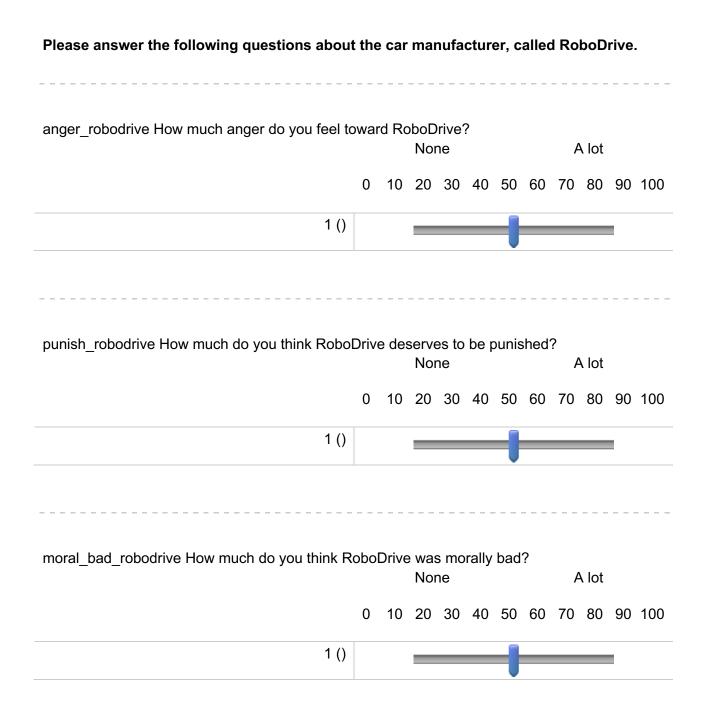
random_elderly You will now answer some questions about the scenario.

Noah buys a robocar that has been programmed to have no preference between elderly people and children. If it is ever faced with no other choice but to hit and kill an elderly person versus a child, it will randomly choose to kill one of them. One day, Noah's robocar is faced with this choice, and it randomly kills the elderly person.

blame noah Noah is Not blameworthy Very blameworthy 0 10 20 30 40 50 60 70 80 90 100 1 () blame robocar The robocar is Not blameworthy Very blameworthy 0 10 20 30 40 50 60 70 80 90 100 1 () blame robodrive The robocar manufacturer, called RoboDrive, is Not blameworthy Very blameworthy 0 10 20 30 40 50 60 70 80 90 100 1 ()

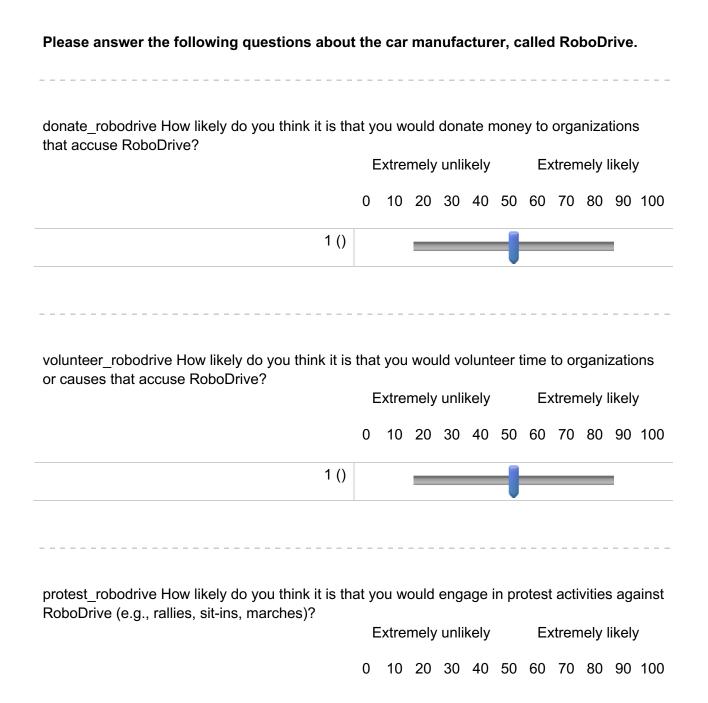
Start of Block: Page 2: Moral Outrage Questions

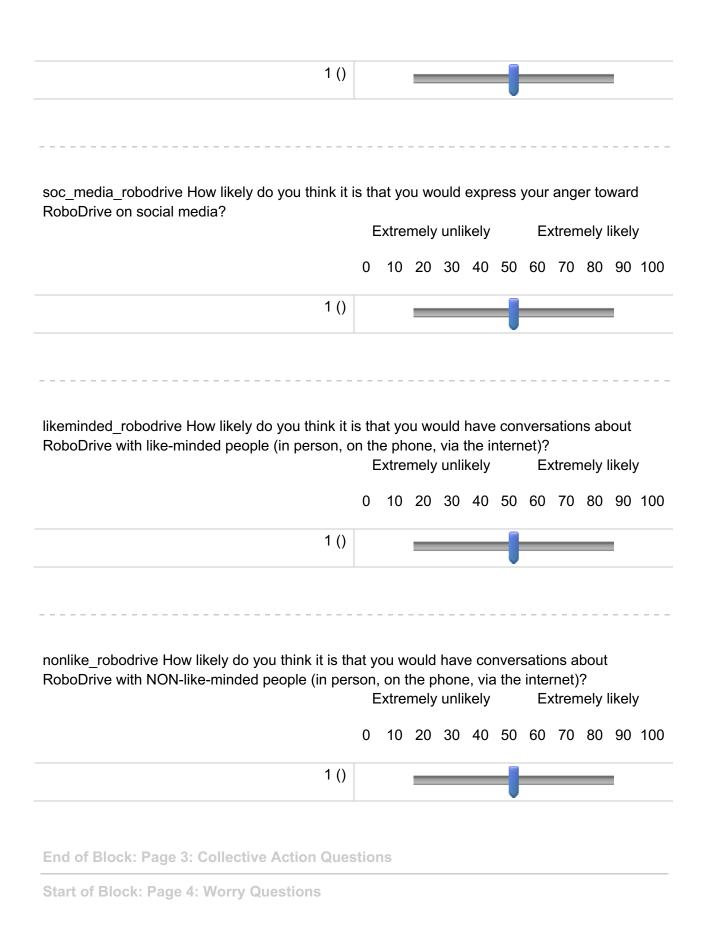
random_elderly Noah buys a robocar that has been programmed to have no preference between elderly people and children. If it is ever faced with no other choice but to hit and kill an elderly person versus a child, it will randomly choose to kill one of them. One day, Noah's robocar is faced with this choice, and it randomly kills the elderly person.



Start of Block: Page 3: Collective Action Questions

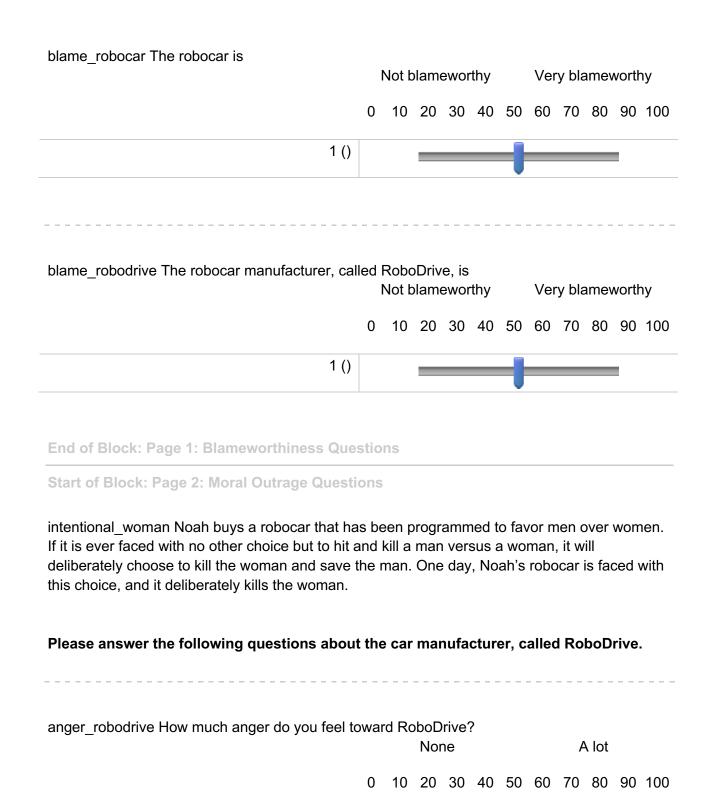
random_elderly Noah buys a robocar that has been programmed to have no preference between elderly people and children. If it is ever faced with no other choice but to hit and kill an elderly person versus a child, it will randomly choose to kill one of them. One day, Noah's robocar is faced with this choice, and it randomly kills the elderly person.



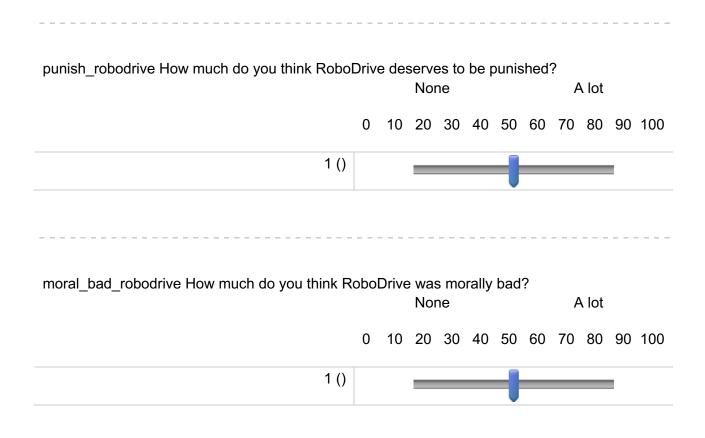


random_elderly Noah buys a robocar that has been programmed to have no preference between elderly people and children. If it is ever faced with no other choice but to hit and kill an elderly person versus a child, it will randomly choose to kill one of them. One day, Noah's robocar is faced with this choice, and it randomly kills the elderly person.											
worry_self_robocar How worried are you about this brand of robocar unnecessarily hitting you? Not worried at all Extremely worried											
	0	10	20	30	40	50	60	70	80	90	100
1 ()						-					
worry_others_robocar How worried are you abo other people?		Not v	worri	ed a	t all		Ext	reme	rily h ely w 80	orrie	ed
1 ()						1					
End of Block: Page 4: Worry Questions											
Start of Block: Attention Check #2											
AC_3_random_elderly Did the Robocar kill a p	ers	on d	elibe	erate	ely, r	and	omly	y, or	neit	her?	?
O Deliberately (1)											
Randomly (2)											
O Neither (3)											

AC_4_random_elderly Did the robocar kill a ch	nild, an elderly person, or neither?
Ohild (1)	
O Elderly person (2)	
O Neither (3)	
End of Block: Attention Check #2	
Start of Block: Intentional, Kills Woman	
intentional_woman Read the scenario below a finished, you will be asked to answer some q	
Noah buys a robocar that has been programme with no other choice but to hit and kill a man ver the woman and save the man. One day, Noah's deliberately kills the woman.	rsus a woman, it will deliberately choose to kill
End of Block: Intentional, Kills Woman	
Start of Block: Page 1: Blameworthiness Que	estions
intentional_woman You will now answer some	questions about the scenario.
Noah buys a robocar that has been programme with no other choice but to hit and kill a man vers the woman and save the man. One day, Noah's deliberately kills the woman.	sus a woman, it will deliberately choose to kill
blame_noah Noah is	Not blameworthy Very blameworthy
	0 10 20 30 40 50 60 70 80 90 100
1 ()	



1 ()



End of Block: Page 2: Moral Outrage Questions

Start of Block: Page 3: Collective Action Questions

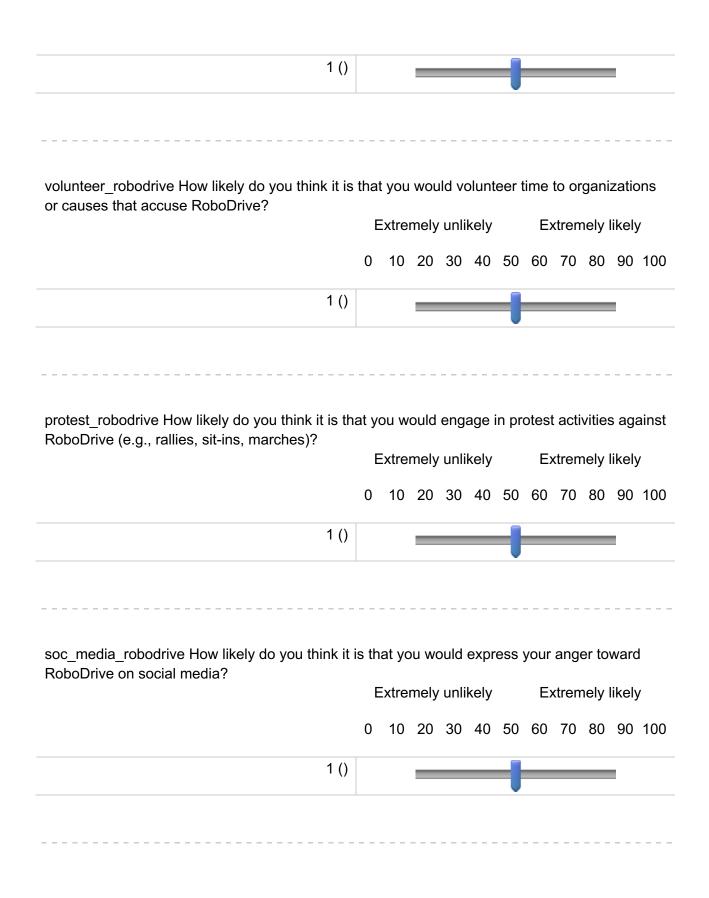
intentional_woman Noah buys a robocar that has been programmed to favor men over women. If it is ever faced with no other choice but to hit and kill a man versus a woman, it will deliberately choose to kill the woman and save the man. One day, Noah's robocar is faced with this choice, and it deliberately kills the woman.

Please answer the following questions about the car manufacturer, called RoboDrive.

donate_robodrive How likely do you think it is that you would donate money to organizations that accuse RoboDrive?

Extremely unlikely Extremely likely

0 10 20 30 40 50 60 70 80 90 100





worry_others_robocar How worried are you about this brand of robocar unnecessarily hitting other people?											9	
outor people.	Not worried at all							Extremely worried				
	0 10 20 30 40 50							70	80	90	100	
1 ()						1						
End of Block: Page 4: Worry Questions												
Start of Block: Attention Check #2												
AC_3_intent_woman Did the Robocar kill a pe	rso	n de	liber	atel	y, ra	ndo	mly,	or n	eith	er?		
O Deliberately (1)												
O Randomly (2)												
O Neither (3)												
AC_4_intent_woman Did the robocar kill a ma	n, a	wor	nan,	or r	eith	er?						
○ Man (1)												
O Woman (2)												
O Neither (3)												
End of Block: Attention Check #2												

Start of Block: Intentional, Kills Man

intentional_man Read the scenario below about a self-driving car carefully. Once you are finished, you will be asked to answer some questions about it.

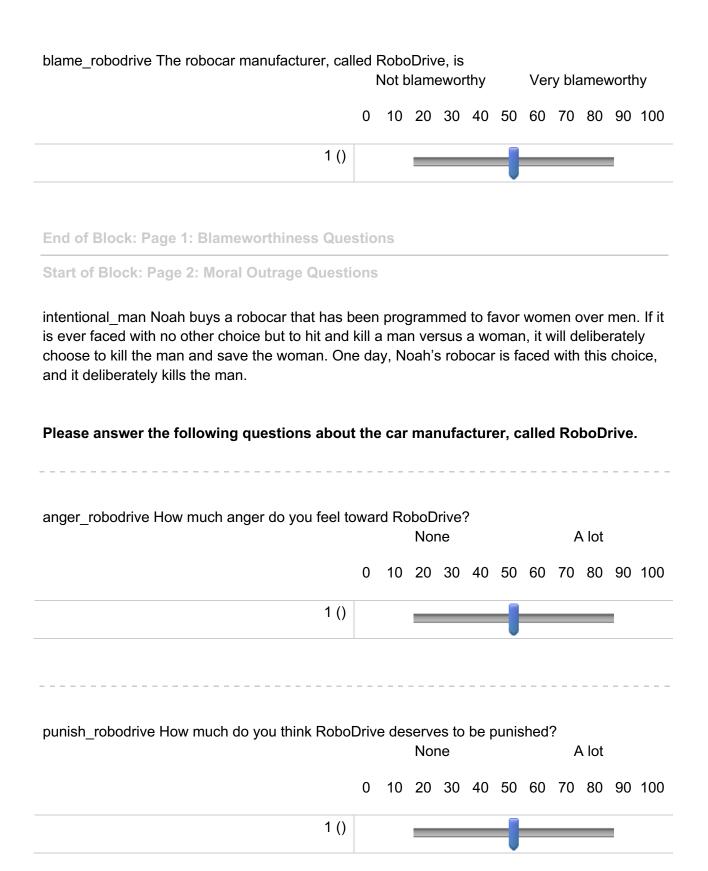
Noah buys a robocar that has been programmed to favor women over men. If it is ever faced with no other choice but to hit and kill a man versus a woman, it will deliberately choose to kill the man and save the woman. One day, Noah's robocar is faced with this choice, and it deliberately kills the man.

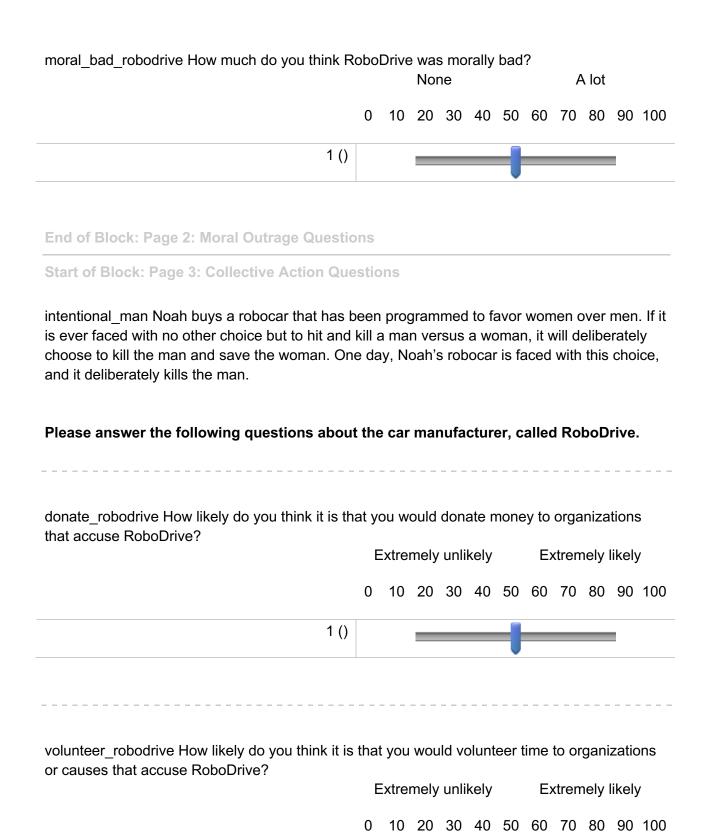
End of Block: Intentional, Kills Man

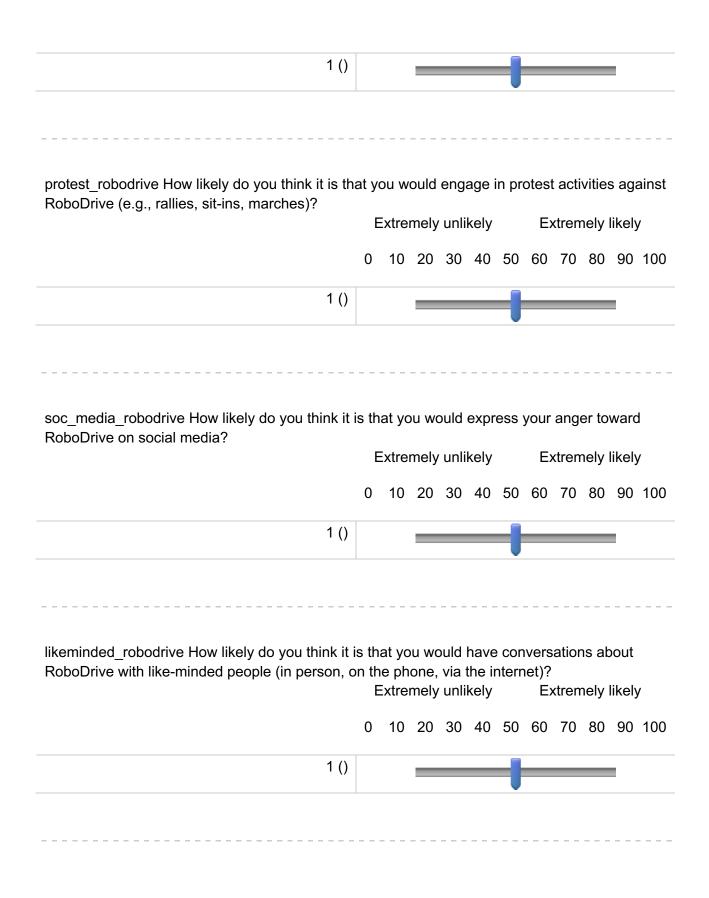
Start of Block: Page 1: Blameworthiness Questions

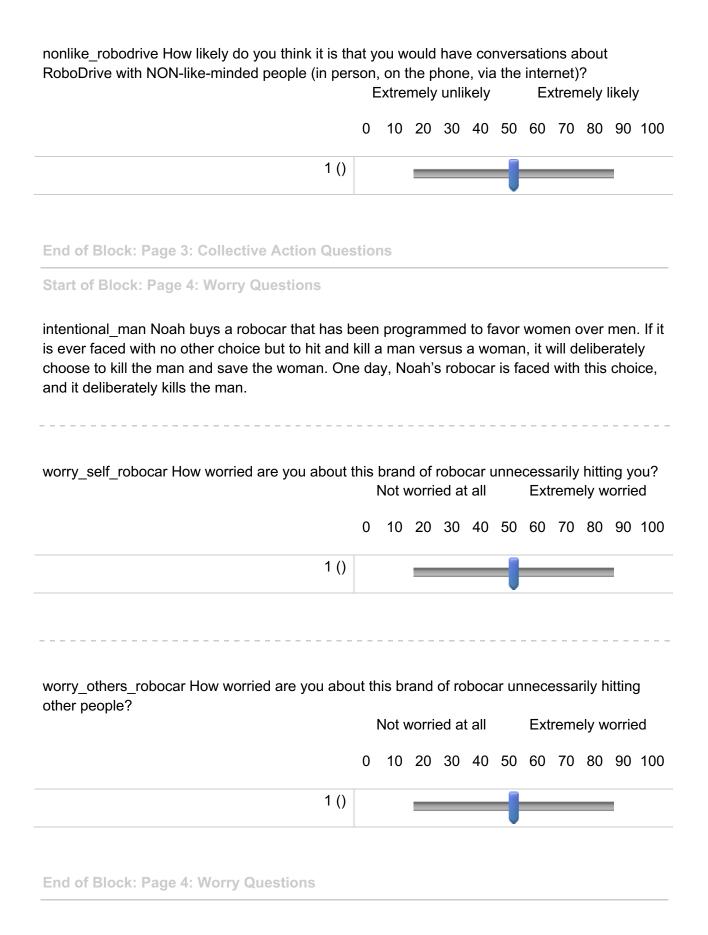
intentional man You will now answer some questions about the scenario.

Noah buys a robocar that has been programmed to favor women over men. If it is ever faced with no other choice but to hit and kill a man versus a woman, it will deliberately choose to kill the man and save the woman. One day, Noah's robocar is faced with this choice, and it deliberately kills the man.









Start of Block: Attention Check #2 AC 3 intent man Did the Robocar kill a person deliberately, randomly, or neither? O Deliberately (1) O Randomly (2) O Neither (3) AC 4 intent man Did the robocar kill a man, a woman, or neither? Man (1) O Woman (2) O Neither (3) **End of Block: Attention Check #2 Start of Block: Random, Kills Woman** random_woman Read the scenario below about a self-driving car carefully. Once you are finished, you will be asked to answer some questions about it.

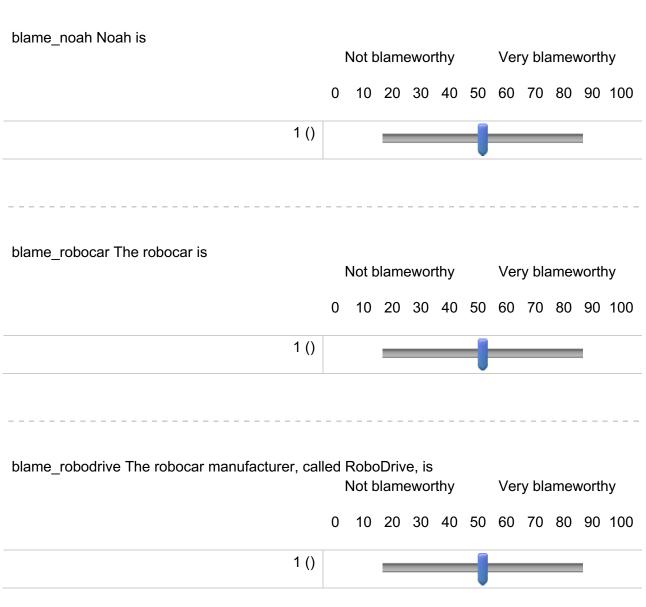
Noah buys a robocar that has been programmed to have no preference between men and women. If it is ever faced with no other choice but to hit and kill a man versus a woman, it will randomly choose to kill one of them. One day, Noah's robocar is faced with this choice, and it randomly kills the woman.

End of Block: Random, Kills Woman

Start of Block: Page 1: Blameworthiness Questions



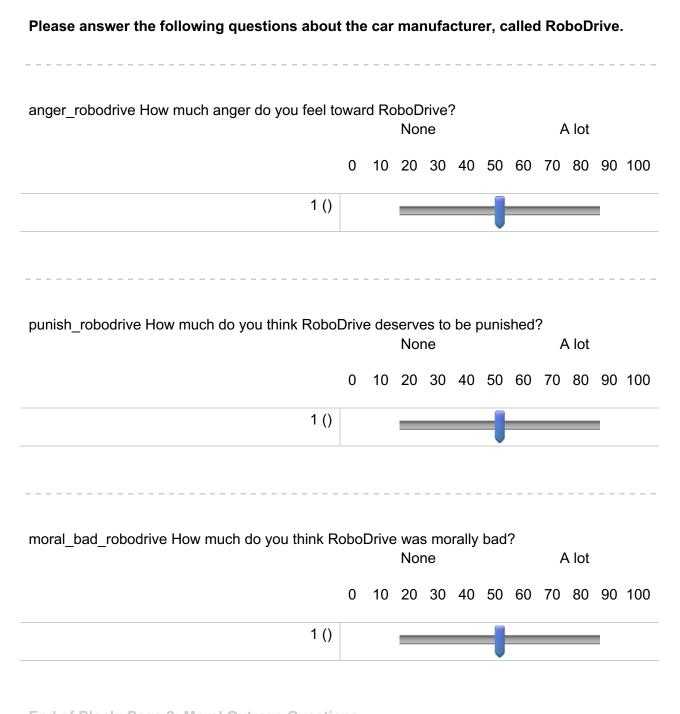
Noah buys a robocar that has been programmed to have no preference between men and women. If it is ever faced with no other choice but to hit and kill a man versus a woman, it will randomly choose to kill one of them. One day, Noah's robocar is faced with this choice, and it randomly kills the woman.



End of Block: Page 1: Blameworthiness Questions

Start of Block: Page 2: Moral Outrage Questions

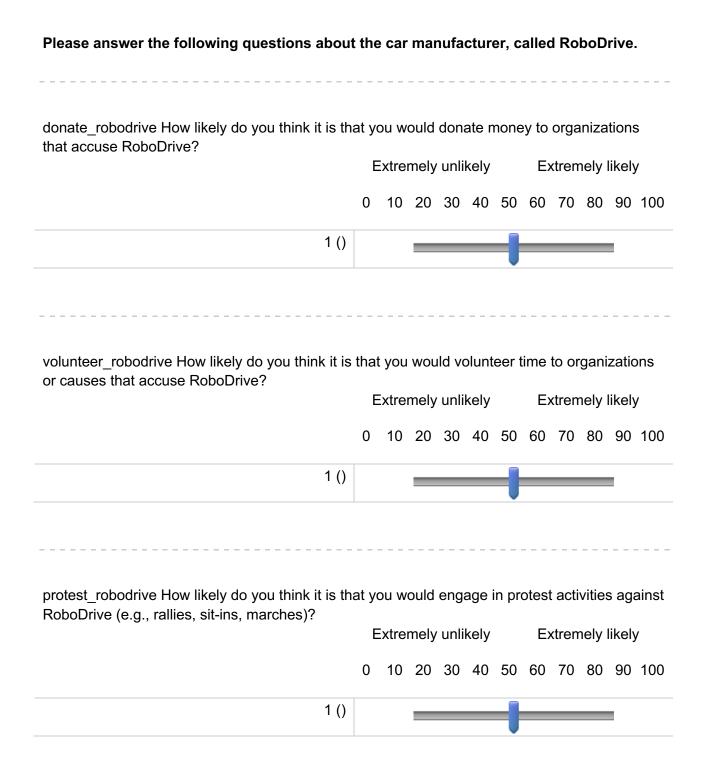
random_woman Noah buys a robocar that has been programmed to have no preference between men and women. If it is ever faced with no other choice but to hit and kill a man versus a woman, it will randomly choose to kill one of them. One day, Noah's robocar is faced with this choice, and it randomly kills the woman.

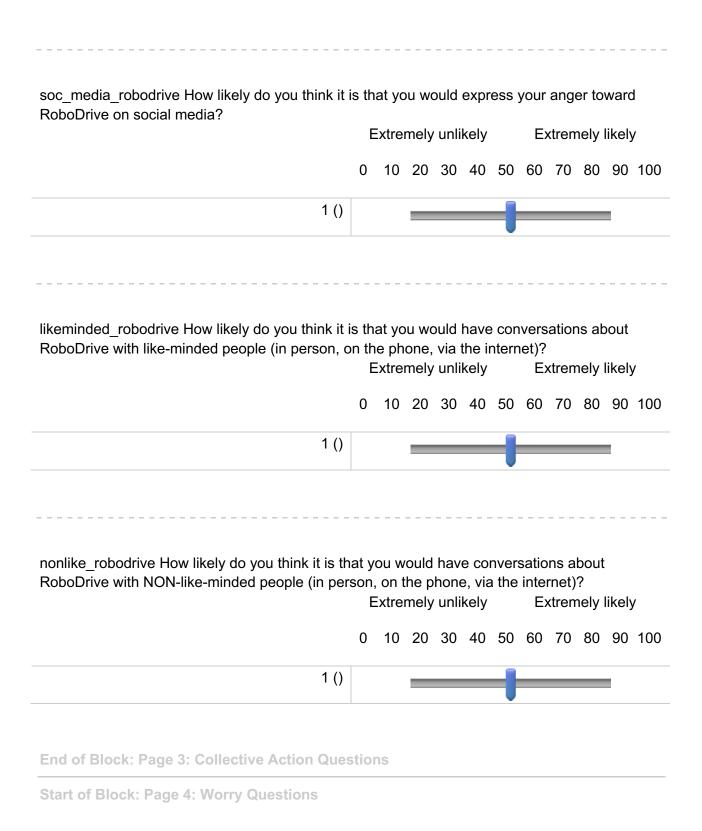


End of Block: Page 2: Moral Outrage Questions

Start of Block: Page 3: Collective Action Questions

random_woman Noah buys a robocar that has been programmed to have no preference between men and women. If it is ever faced with no other choice but to hit and kill a man versus a woman, it will randomly choose to kill one of them. One day, Noah's robocar is faced with this choice, and it randomly kills the woman.

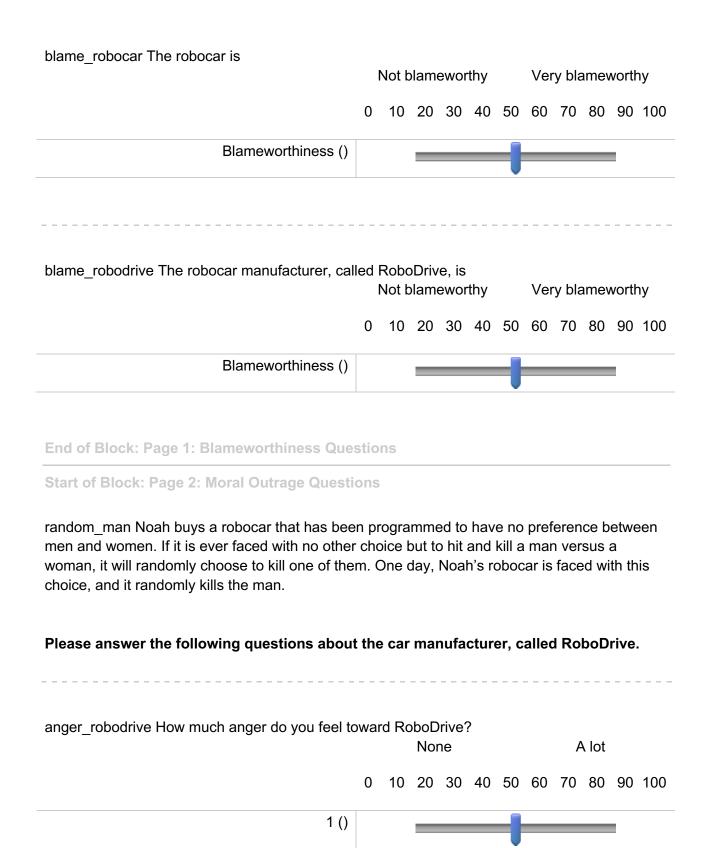


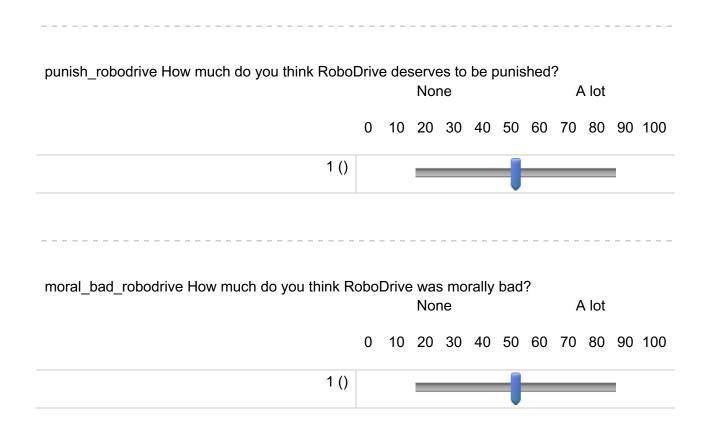


random_woman Noah buys a robocar that has been programmed to have no preference between men and women. If it is ever faced with no other choice but to hit and kill a man versus

a woman, it will randomly choose to kill one of the choice, and it randomly kills the woman.	nem	. One	e day	y, No	ah's	robo	ocar	is fa	ced	with	this	
orry_self_robocar How worried are you about this brand of robocar unnecessarily hitting you? Not worried at all Extremely worried												
	0	10	20	30	40	50	60	70	80	90	100	
1 ()						1						
worry_others_robocar How worried are you aboother people?	ners_robocar How worried are you about this brand of robocar unnecessarily hitting ple? Not worried at all Extremely worried 0 10 20 30 40 50 60 70 80 90 100										d	
1 ()						-						
End of Block: Page 4: Worry Questions												
Start of Block: Attention Check #2												
AC_3_random_woman Did the Robocar kill a	pers	on (delib	erat	ely,	ranc	loml	y, oı	nei	ther	?	
O Deliberately (1)												
Randomly (2)												
O Neither (3)												

AC_4_random_woman Did the robocar kill a n	nan, a woman, or neither?
○ Man (1)	
O Woman (2)	
O Neither (3)	
End of Block: Attention Check #2	
Start of Block: Random, Kills Man	
random_man Read the scenario below about a finished, you will be asked to answer some q	
Noah buys a robocar that has been programme women. If it is ever faced with no other choice by randomly choose to kill one of them. One day, N randomly kills the man.	ut to hit and kill a man versus a woman, it will
End of Block: Random, Kills Man	
Start of Block: Page 1: Blameworthiness Que	estions
random_man You will now answer some ques	stions about the scenario.
Noah buys a robocar that has been programme women. If it is ever faced with no other choice by randomly choose to kill one of them. One day, N randomly kills the man.	ut to hit and kill a man versus a woman, it will
blame_noah Noah is	Not blameworthy Very blameworthy
	0 10 20 30 40 50 60 70 80 90 100
Blameworthiness ()	





End of Block: Page 2: Moral Outrage Questions

Start of Block: Page 3: Collective Action Questions

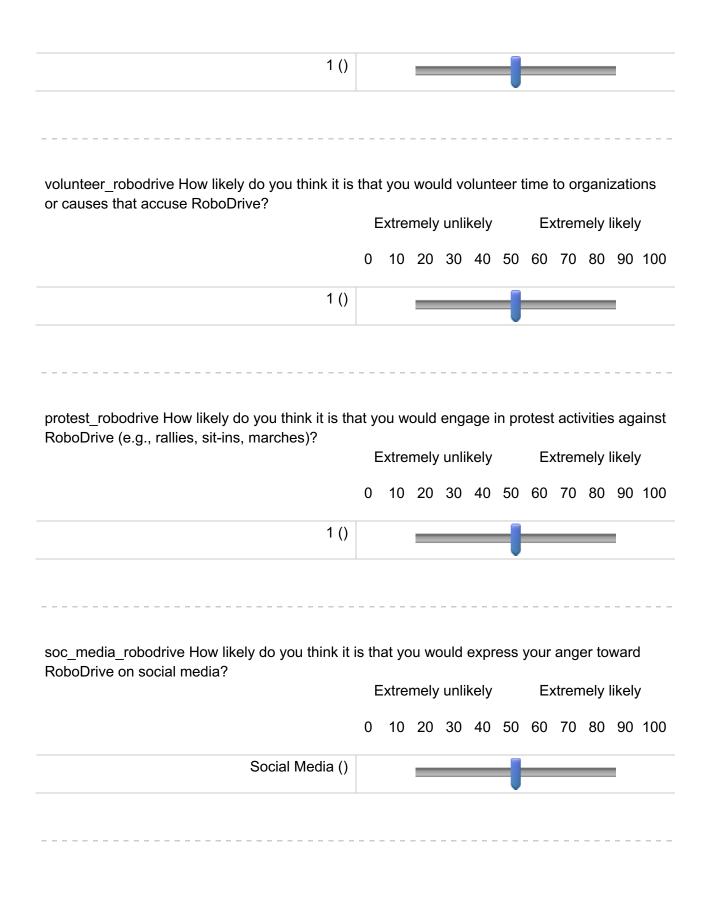
random_man Noah buys a robocar that has been programmed to have no preference between men and women. If it is ever faced with no other choice but to hit and kill a man versus a woman, it will randomly choose to kill one of them. One day, Noah's robocar is faced with this choice, and it randomly kills the man.

Please answer the following questions about the car manufacturer, called RoboDrive.

donate_robodrive How likely do you think it is that you would donate money to organizations that accuse RoboDrive?

Extremely unlikely Extremely likely

0 10 20 30 40 50 60 70 80 90 100





worry_others_robocar How worried are you about this brand of robocar unnecessarily hitting other people?												
outor people.	Not worried at all							Extremely worried				
	0	10	20	30	40	50	60	70	80	90	100	
1 ()						1						
End of Block: Page 4: Worry Questions												
Start of Block: Attention Check #2												
AC_3_random_man Did the Robocar kill a per	son	del	ibera	ately	, rar	ndon	nly, (or ne	eithe	r?		
O Deliberately (1)												
O Randomly (2)												
O Neither (3)												
AC_4_random_man Did the robocar kill a man	ո, a ՝	wom	nan,	or n	eithe	er?						
O Man (1)												
O Woman (2)												
O Neither (3)												
End of Block: Attention Check #2												

Start of Block: Intentional, Kills Athlete

intentional_athlete Read the scenario below about a self-driving car carefully. Once you are finished, you will be asked to answer some questions about it.

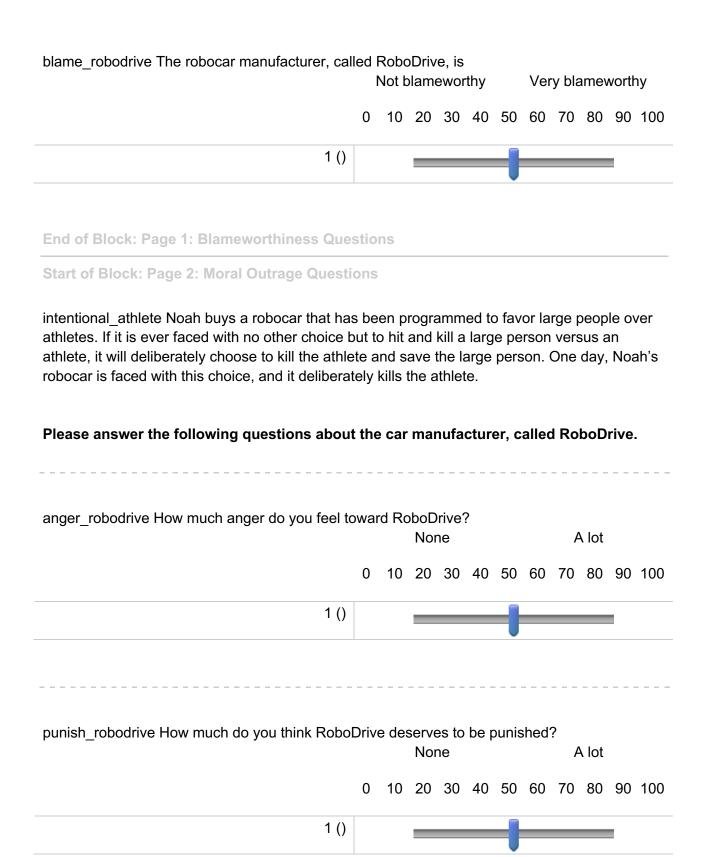
Noah buys a robocar that has been programmed to favor large people over athletes. If it is ever faced with no other choice but to hit and kill a large person versus an athlete, it will deliberately choose to kill the athlete and save the large person. One day, Noah's robocar is faced with this choice, and it deliberately kills the athlete.

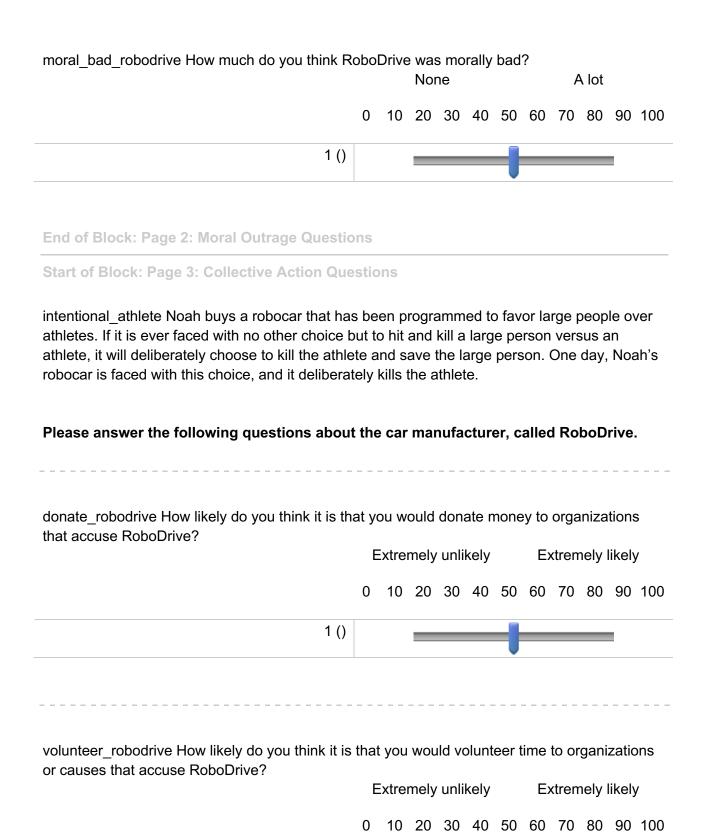
End of Block: Intentional, Kills Athlete

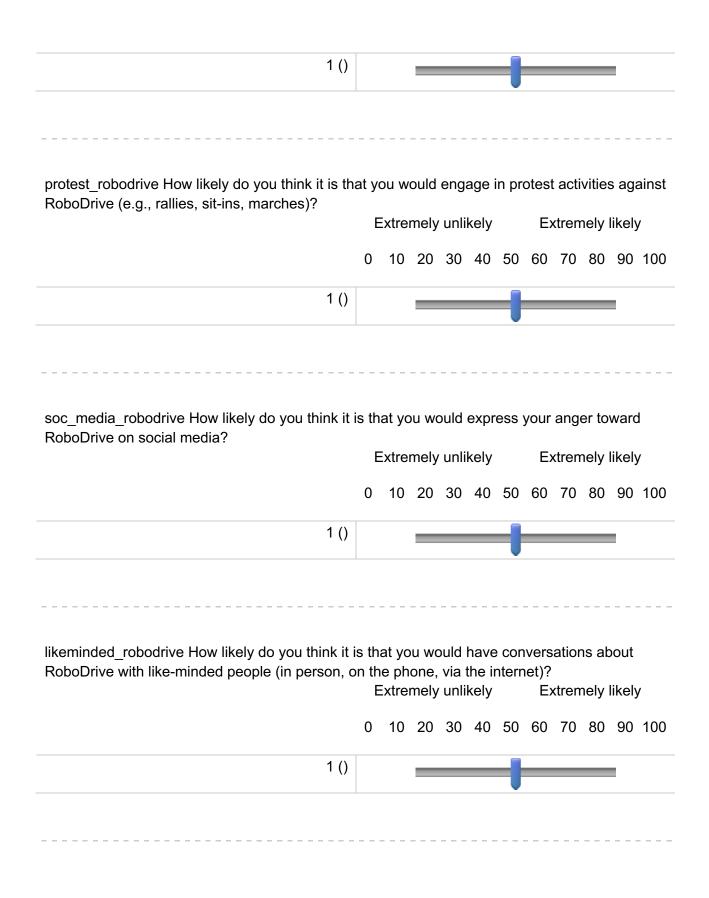
Start of Block: Page 1: Blameworthiness Questions

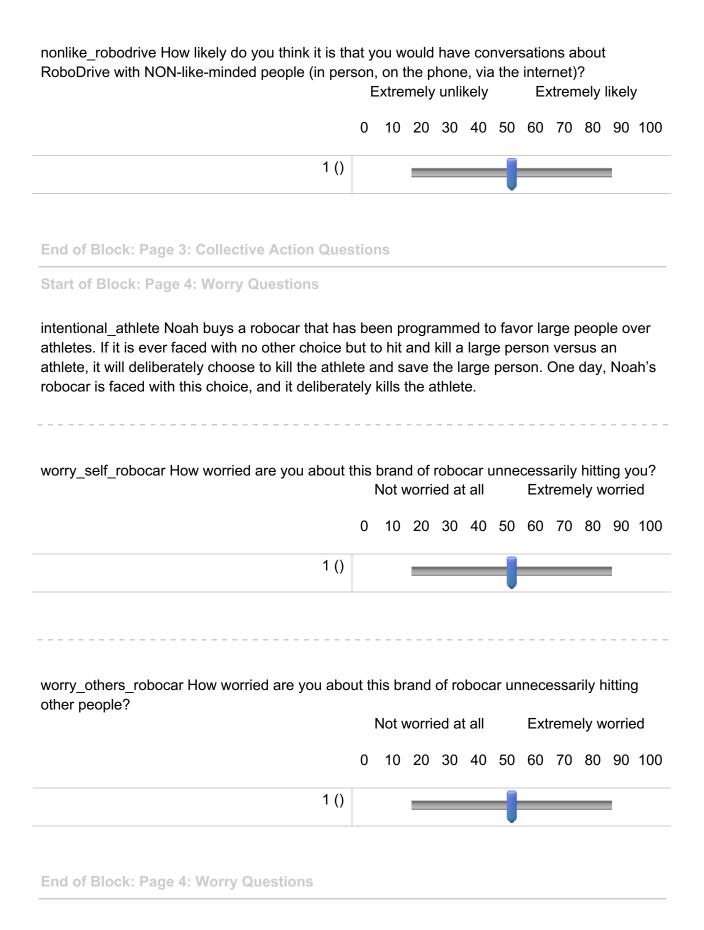
intentional athlete You will now answer some questions about the scenario.

Noah buys a robocar that has been programmed to favor large people over athletes. If it is ever faced with no other choice but to hit and kill a large person versus an athlete, it will deliberately choose to kill the athlete and save the large person. One day, Noah's robocar is faced with this choice, and it deliberately kills the athlete.









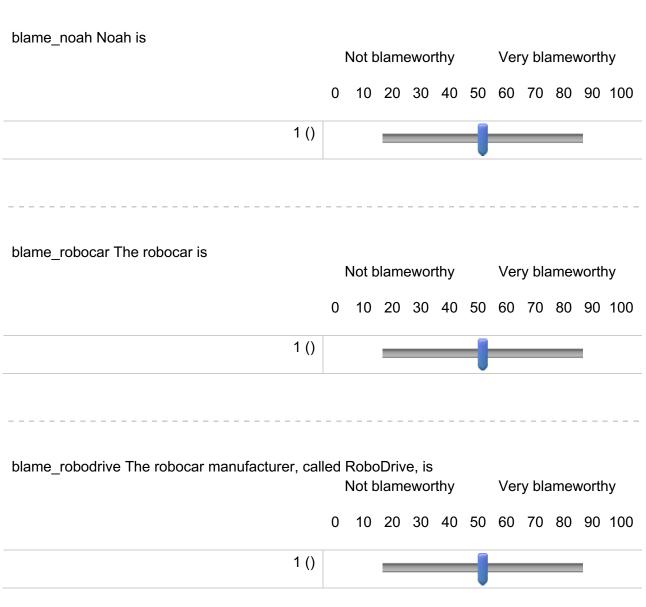
Start of Block: Attention Check #2 AC 3 intent athlete Did the Robocar kill a person deliberately, randomly, or neither? O Deliberately (1) O Randomly (2) O Neither (3) AC 4 intent athlete Did the robocar kill an athlete, a large person, or neither? Athlete (1) Large person (2) O Neither (3) **End of Block: Attention Check #2** Start of Block: Intentional, Kills Obese intentional_obese Read the scenario below about a self-driving car carefully. Once you are finished, you will be asked to answer some questions about it. Noah buys a robocar that has been programmed to favor athletes over large people. If it is ever faced with no other choice but to hit and kill a large person versus an athlete, it will deliberately choose to kill the large person and save the athlete. One day, Noah's robocar is faced with this choice, and it deliberately kills the large person.

End of Block: Intentional, Kills Obese

Start of Block: Page 1: Blameworthiness Questions



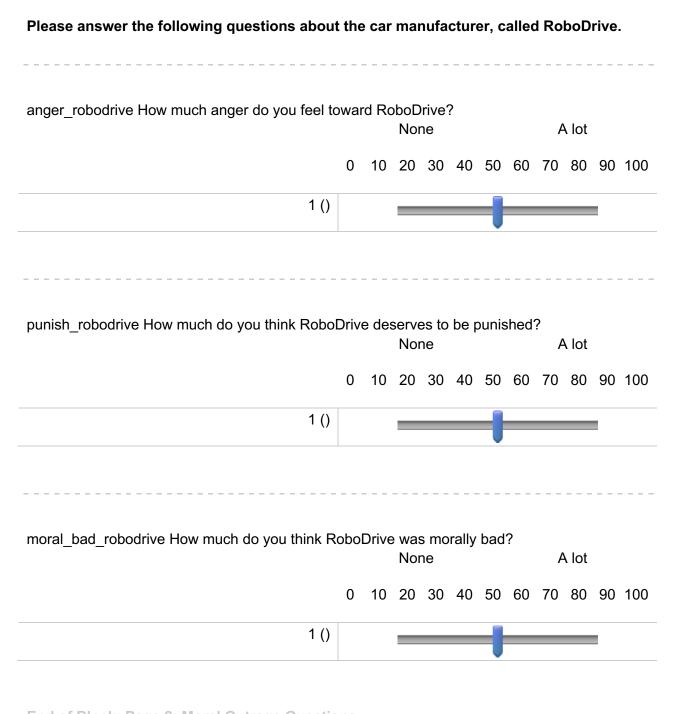
Noah buys a robocar that has been programmed to favor athletes over large people. If it is ever faced with no other choice but to hit and kill a large person versus an athlete, it will deliberately choose to kill the large person and save the athlete. One day, Noah's robocar is faced with this choice, and it deliberately kills the large person.



End of Block: Page 1: Blameworthiness Questions

Start of Block: Page 2: Moral Outrage Questions

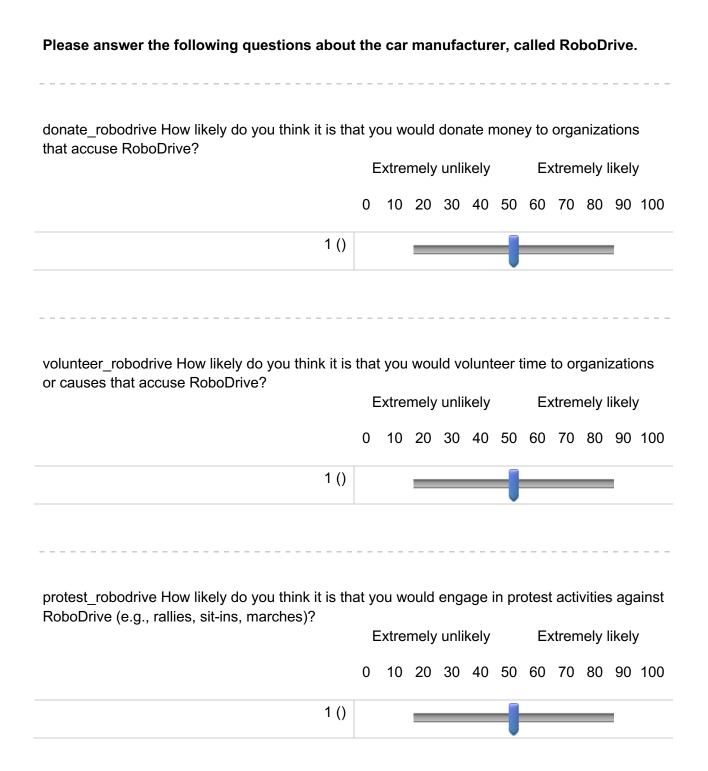
intentional_obese Noah buys a robocar that has been programmed to favor athletes over large people. If it is ever faced with no other choice but to hit and kill a large person versus an athlete, it will deliberately choose to kill the large person and save the athlete. One day, Noah's robocar is faced with this choice, and it deliberately kills the large person.

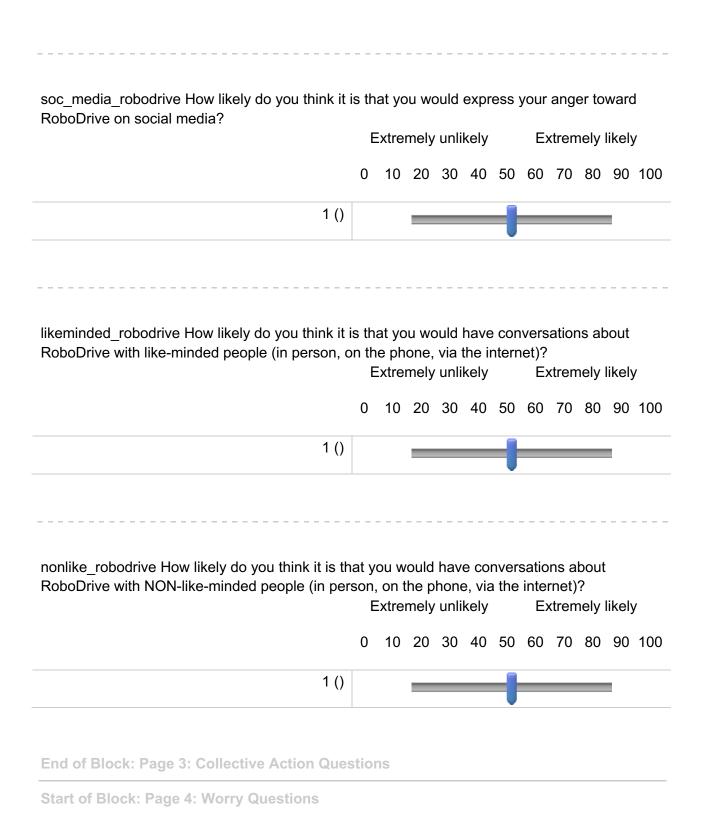


End of Block: Page 2: Moral Outrage Questions

Start of Block: Page 3: Collective Action Questions

intentional_obese Noah buys a robocar that has been programmed to favor athletes over large people. If it is ever faced with no other choice but to hit and kill a large person versus an athlete, it will deliberately choose to kill the large person and save the athlete. One day, Noah's robocar is faced with this choice, and it deliberately kills the large person.

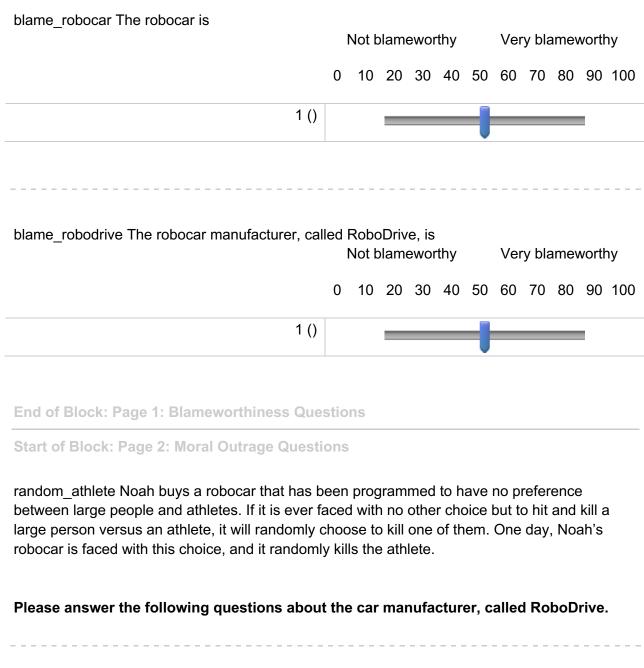


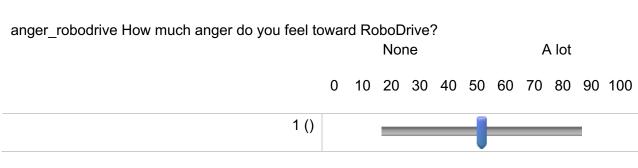


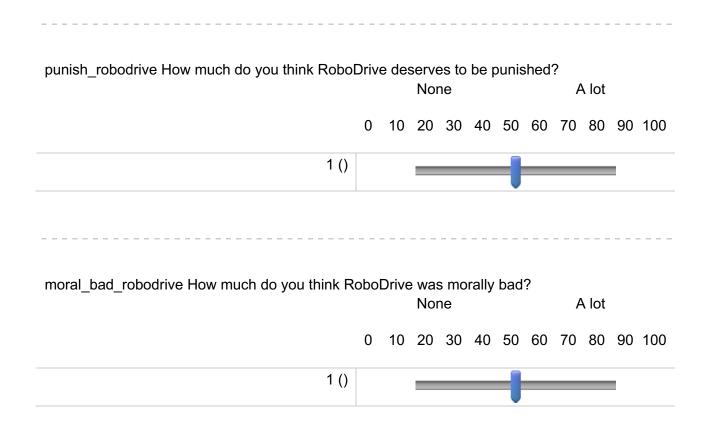
intentional_obese Noah buys a robocar that has been programmed to favor athletes over large people. If it is ever faced with no other choice but to hit and kill a large person versus an athlete,

it will deliberately choose to kill the large person and save the athlete. One day, Noah's robocar is faced with this choice, and it deliberately kills the large person.												
orry_self_robocar How worried are you about this brand of robocar unnecessarily hitting you? Not worried at all Extremely worried												
	0	10	20	30	40	50	60	70	80	90	100	
1 ()				_	_	1		_	_			
worry_others_robocar How worried are you aboother people?		Not v	worri	of ro ed at	all		Ext	reme	ely w	orrie	ed	
1 ()						1						
End of Block: Page 4: Worry Questions Start of Block: Attention Check #2												
AC_3_intent_obese Did the Robocar kill a per	son	deli	bera	tely	, ran	don	ıly, c	or ne	ithe	r?		
O Deliberately (1)												
Randomly (2)												
O Neither (3)												

AC_4_intent_obese Did the robocar kill an ath	lete, a large person, or neither?
O Athlete (1)	
C Large person (2)	
O Neither (3)	
End of Block: Attention Check #2	
Start of Block: Random, Kills Athlete	
random_athlete Read the scenario below about finished, you will be asked to answer some q	
Noah buys a robocar that has been programme and athletes. If it is ever faced with no other choice athlete, it will randomly choose to kill one of ther choice, and it randomly kills the athlete.	ice but to hit and kill a large person versus an
End of Block: Random, Kills Athlete	
Start of Block: Page 1: Blameworthiness Que	estions
random_athlete You will now answer some qu	estions about the scenario.
Noah buys a robocar that has been programme and athletes. If it is ever faced with no other choice, it will randomly choose to kill one of ther choice, and it randomly kills the athlete.	ice but to hit and kill a large person versus an
blame_noah Noah is	Not blameworthy Very blameworthy
	0 10 20 30 40 50 60 70 80 90 100
1 ()	







End of Block: Page 2: Moral Outrage Questions

Start of Block: Page 3: Collective Action Questions

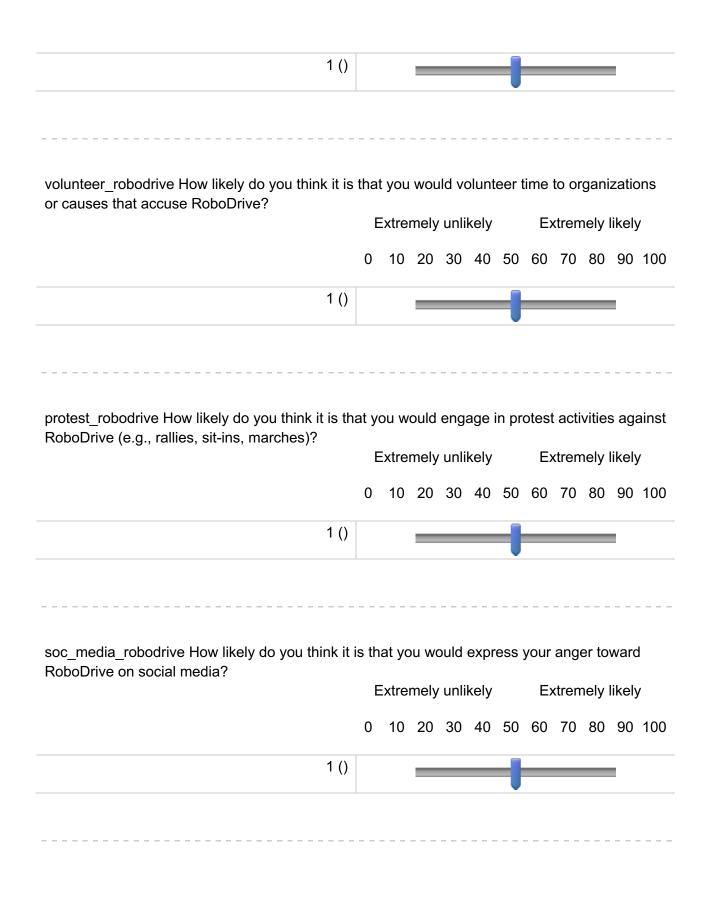
random_athlete Noah buys a robocar that has been programmed to have no preference between large people and athletes. If it is ever faced with no other choice but to hit and kill a large person versus an athlete, it will randomly choose to kill one of them. One day, Noah's robocar is faced with this choice, and it randomly kills the athlete.

Please answer the following questions about the car manufacturer, called RoboDrive.

donate_robodrive How likely do you think it is that you would donate money to organizations that accuse RoboDrive?

Extremely unlikely Extremely likely

0 10 20 30 40 50 60 70 80 90 100





worry_others_robocar How worried are you about this brand of robocar unnecessarily hitting other people?													
outor people.	Not worried at all							Extremely worried					
	0	10	20	30	40	50	60	70	80	90	100		
1 ()						1							
End of Block: Page 4: Worry Questions													
Start of Block: Attention Check #2													
AC_3_random_athlete Did the Robocar kill a p O Deliberately (1)	oers	on d	lelibe	erate	ely, ı	and	omly	y, or	neit	her'	?		
Randomly (2)													
O Neither (3)													
AC_4_random_athlete Did the robocar kill an	athl	ete,	a lar	ge p	erso	on, o	r ne	ithe	r?				
O Athlete (1)													
C Large person (2)													
O Neither (3)													
End of Block: Attention Check #2													

Start of Block: Random, Kills Obese

random_obese Read the scenario below about a self-driving car carefully. Once you are finished, you will be asked to answer some questions about it.

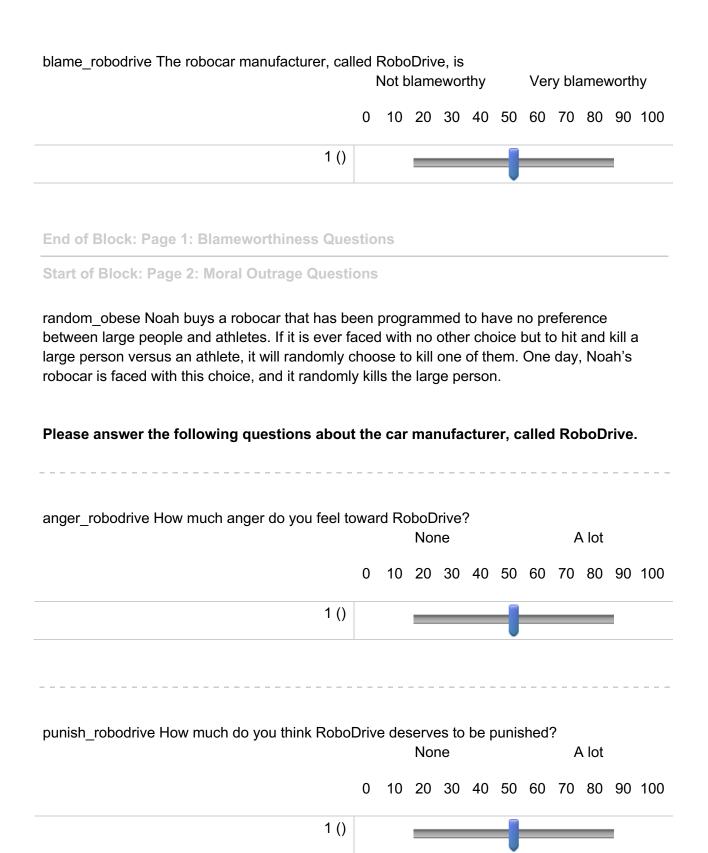
Noah buys a robocar that has been programmed to have no preference between large people and athletes. If it is ever faced with no other choice but to hit and kill a large person versus an athlete, it will randomly choose to kill one of them. One day, Noah's robocar is faced with this choice, and it randomly kills the large person.

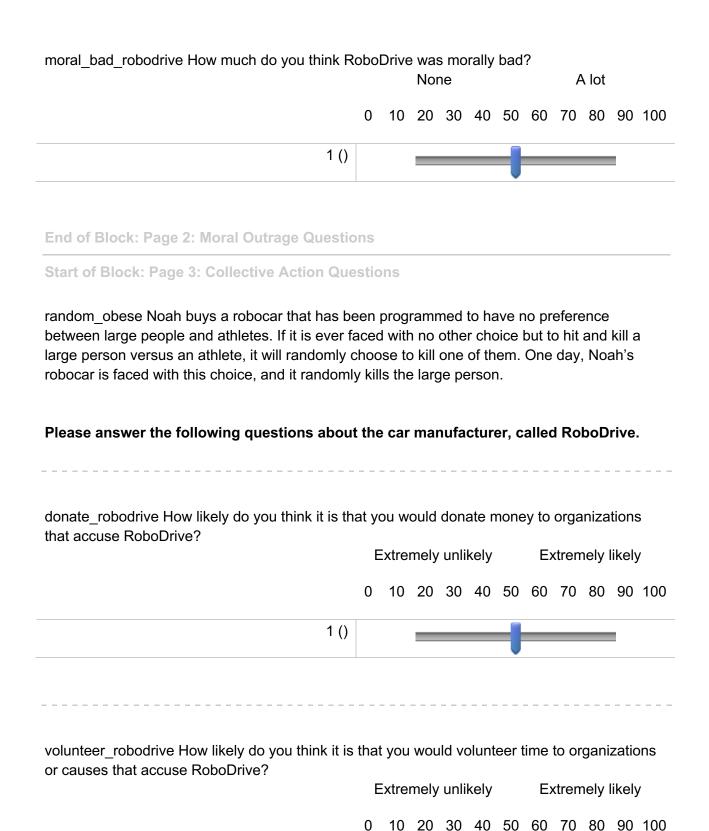
End of Block: Random, Kills Obese

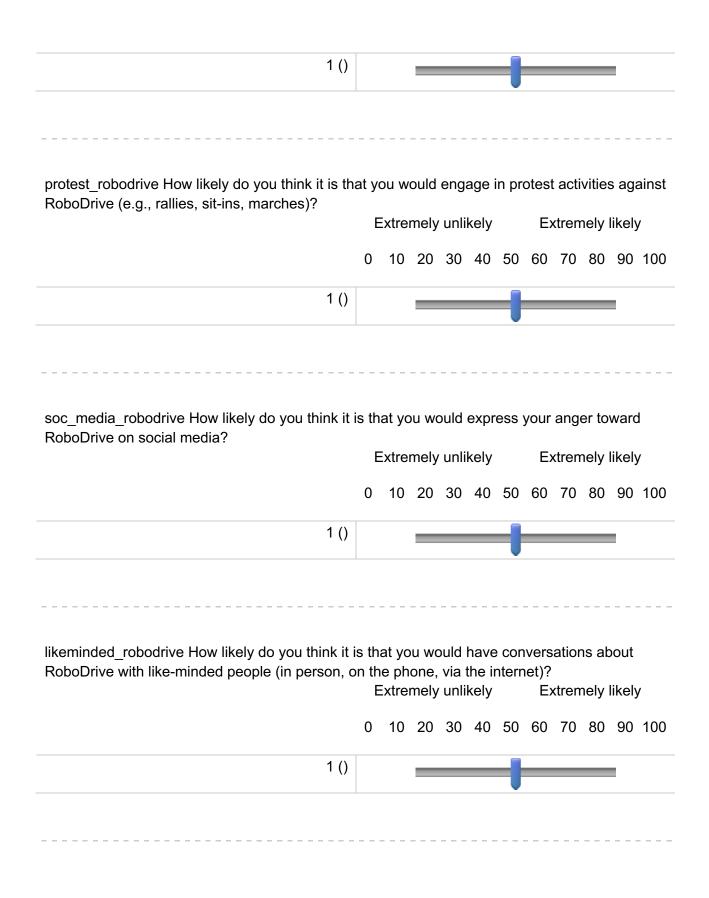
Start of Block: Page 1: Blameworthiness Questions

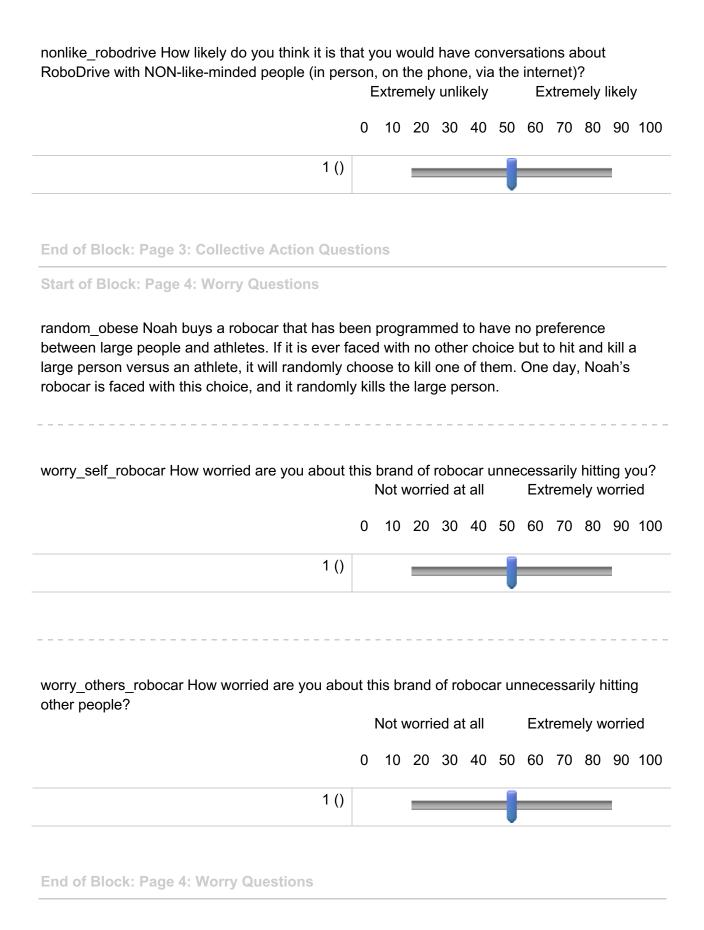
random obese You will now answer some questions about the scenario.

Noah buys a robocar that has been programmed to have no preference between large people and athletes. If it is ever faced with no other choice but to hit and kill a large person versus an athlete, it will randomly choose to kill one of them. One day, Noah's robocar is faced with this choice, and it randomly kills the large person.









AC_3_random_obese Did the Robocar kill a person deliberately, randomly, or neither?

Deliberately (1)
Randomly (2)
Neither (3)

AC_4_random_obese Did the robocar kill an athlete, a large person, or neither?
Athlete (1)
Large person (2)
Neither (3)

End of Block: Attention Check #2

Start of Block: Intentional, Kills Executive

Start of block: Intentional, Kills Executive

intentional_executiv **Read the scenario below** about a self-driving car **carefully. Once you are finished, you will be asked to answer some questions about it.**

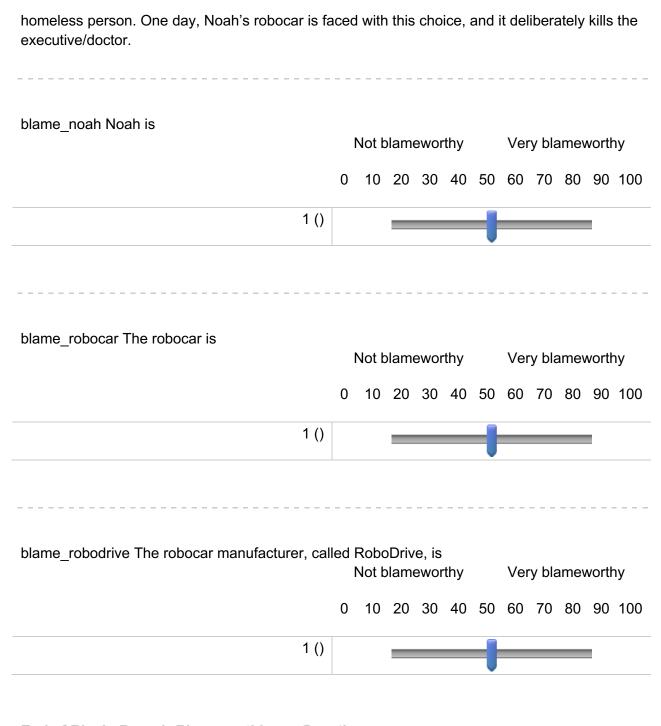
Noah buys a robocar that has been programmed to favor homeless people over executives/doctors. If it is ever faced with no other choice but to hit and kill a homeless person versus an executive/doctor, it will deliberately choose to kill the executive/doctor and save the homeless person. One day, Noah's robocar is faced with this choice, and it deliberately kills the executive/doctor.

End of Block: Intentional, Kills Executive

Start of Block: Page 1: Blameworthiness Questions

intentional executiv You will now answer some questions about the scenario.

Noah buys a robocar that has been programmed to favor homeless people over executives/doctors. If it is ever faced with no other choice but to hit and kill a homeless person versus an executive/doctor, it will deliberately choose to kill the executive/doctor and save the

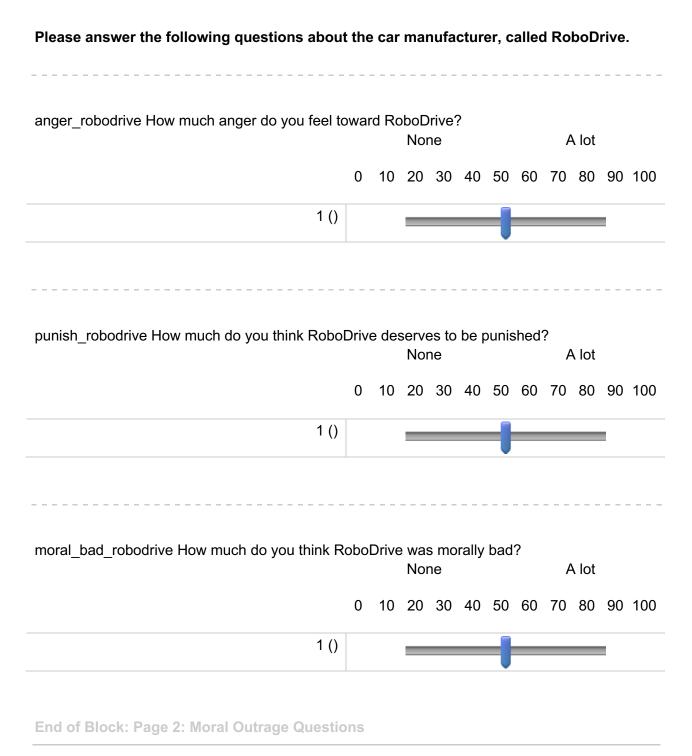


End of Block: Page 1: Blameworthiness Questions

Start of Block: Page 2: Moral Outrage Questions

intentional_executiv Noah buys a robocar that has been programmed to favor homeless people over executives/doctors. If it is ever faced with no other choice but to hit and kill a homeless person versus an executive/doctor, it will deliberately choose to kill the executive/doctor and save the homeless person. One day, Noah's robocar is faced with this choice, and it deliberately

kills the executive/doctor.

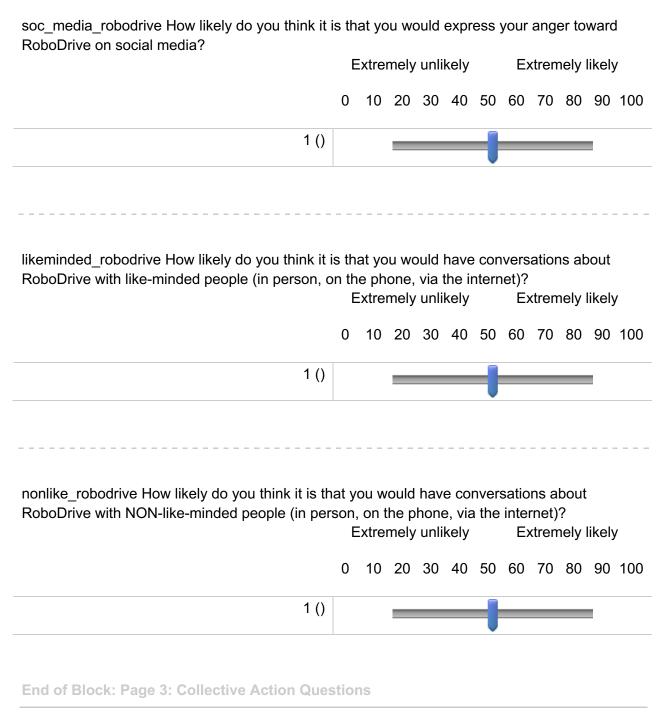


Start of Block: Page 3: Collective Action Questions

intentional_executiv Noah buys a robocar that has been programmed to favor homeless people over executives/doctors. If it is ever faced with no other choice but to hit and kill a homeless

kills the executive/doctor. Please answer the following questions about the car manufacturer, called RoboDrive. donate robodrive How likely do you think it is that you would donate money to organizations that accuse RoboDrive? Extremely unlikely Extremely likely 0 10 20 30 40 50 60 70 80 90 100 1 () volunteer robodrive How likely do you think it is that you would volunteer time to organizations or causes that accuse RoboDrive? Extremely unlikely Extremely likely 0 10 20 30 40 50 60 70 80 90 100 1 () protest robodrive How likely do you think it is that you would engage in protest activities against RoboDrive (e.g., rallies, sit-ins, marches)? Extremely unlikely Extremely likely 0 10 20 30 40 50 60 70 80 90 100 1 ()

person versus an executive/doctor, it will deliberately choose to kill the executive/doctor and save the homeless person. One day, Noah's robocar is faced with this choice, and it deliberately

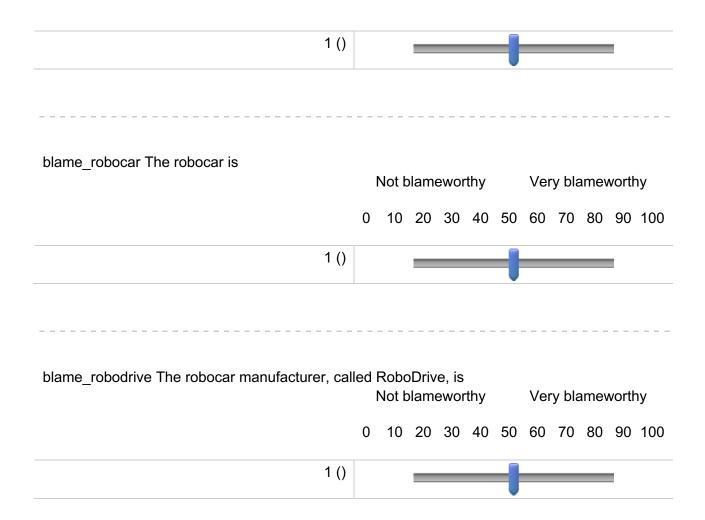


Start of Block: Page 4: Worry Questions

intentional_executiv Noah buys a robocar that has been programmed to favor homeless people over executives/doctors. If it is ever faced with no other choice but to hit and kill a homeless person versus an executive/doctor, it will deliberately choose to kill the executive/doctor and save the homeless person. One day, Noah's robocar is faced with this choice, and it deliberately kills the executive/doctor.

worry_self_robocar How worried are you about		bran Not v				ınne		-	hitti Əly w		
	0	10	20	30	40	50	60	70	80	90	100
1 ()			_			1					
worry_others_robocar How worried are you aboother people?		nis br				ar ur			rily h		
		INOLV	VOITI	eu a	lali		LAU	CITIC	∋ıy vv	OHIE	u
	0	10	20	30	40	50	60	70	80	90	100
1 ()						-					
End of Block: Page 4: Worry Questions											
Start of Block: Attention Check #2											
AC_3_intent_exec Did the Robocar kill a pers	on (delib	erat	ely,	rand	oml	y, or	nei	ther	?	
O Deliberately (1)											
Randomly (2)											
O Neither (3)											

AC_4_intent_exec Did the robocar kill an execoneither?	cutive/doctor, a homele	ess person, or
O Executive/Doctor (1)		
O Homeless person (2)		
O Neither (3)		
End of Block: Attention Check #2		
Start of Block: Intentional, Kills Homeless		
intentional_homeless Read the scenario below are finished, you will be asked to answer son	_	carefully. Once you
Noah buys a robocar that has been programme people. If it is ever faced with no other choice but executive/doctor, it will deliberately choose to kill executive/doctor. One day, Noah's robocar is fachomeless person.	ut to hit and kill a homelo Il the homeless person a	ess person versus an and save the
End of Block: Intentional, Kills Homeless		
Start of Block: Page 1: Blameworthiness Que	estions	
intentional_homeless You will now answer sor	ne questions about the	e scenario.
Noah buys a robocar that has been programmed people. If it is ever faced with no other choice but executive/doctor, it will deliberately choose to kil executive/doctor. One day, Noah's robocar is factorially be person.	ut to hit and kill a homele Il the homeless person a ced with this choice, and	ess person versus an and save the dit deliberately kills the
blame_noah Noah is	Not blameworthy	Very blameworthy
	0 10 20 30 40 5	60 60 70 80 90 100

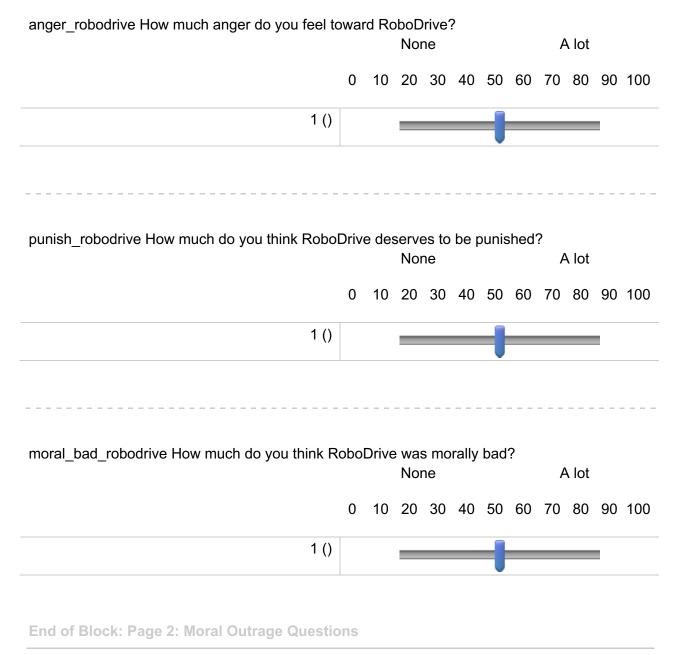


End of Block: Page 1: Blameworthiness Questions

Start of Block: Page 2: Moral Outrage Questions

intentional_homeless Noah buys a robocar that has been programmed to favor executives/doctors over homeless people. If it is ever faced with no other choice but to hit and kill a homeless person versus an executive/doctor, it will deliberately choose to kill the homeless person and save the executive/doctor. One day, Noah's robocar is faced with this choice, and it deliberately kills the homeless person.

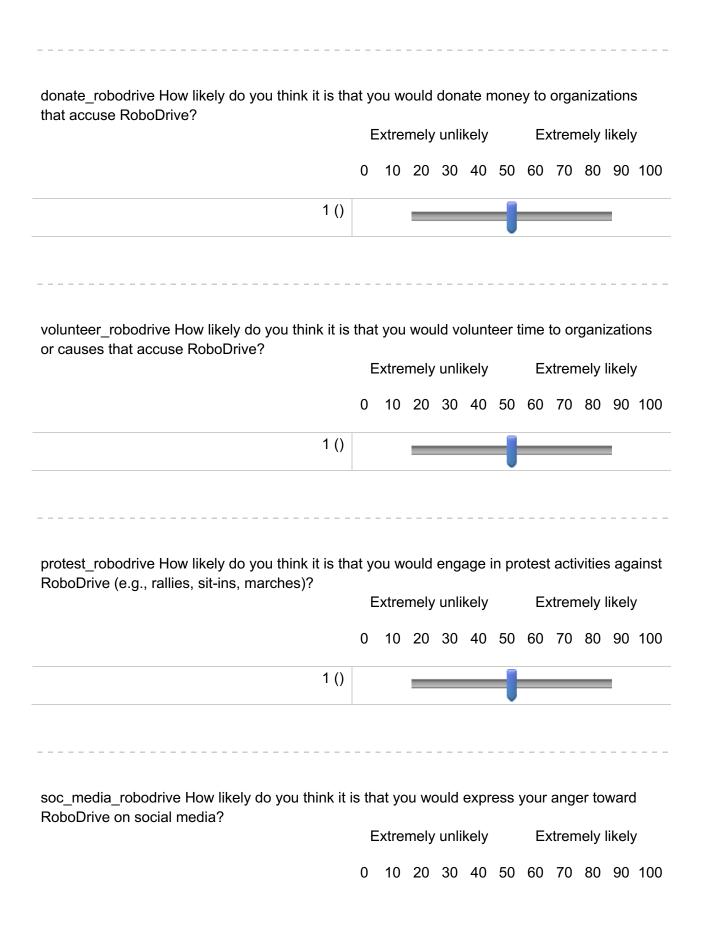
Please answer the following questions about the car manufacturer, called RoboDrive.

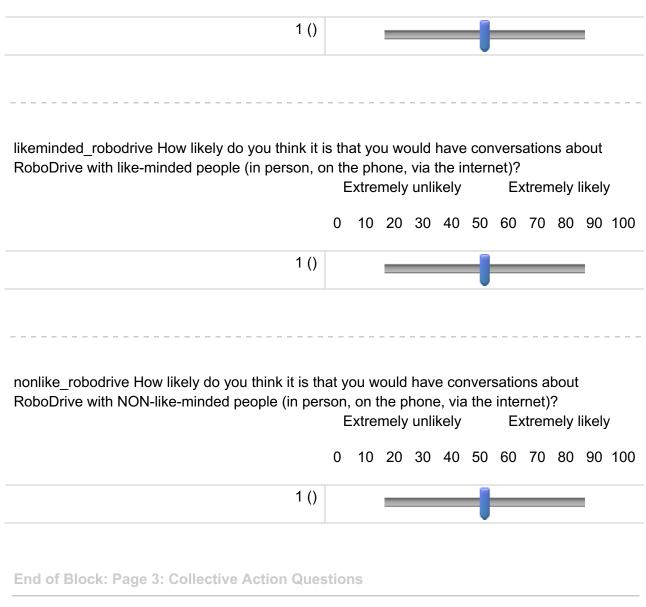


Start of Block: Page 3: Collective Action Questions

intentional_homeless Noah buys a robocar that has been programmed to favor executives/doctors over homeless people. If it is ever faced with no other choice but to hit and kill a homeless person versus an executive/doctor, it will deliberately choose to kill the homeless person and save the executive/doctor. One day, Noah's robocar is faced with this choice, and it deliberately kills the homeless person.

Please answer the following questions about the car manufacturer, called RoboDrive.





Start of Block: Page 4: Worry Questions

intentional_homeless Noah buys a robocar that has been programmed to favor executives/doctors over homeless people. If it is ever faced with no other choice but to hit and kill a homeless person versus an executive/doctor, it will deliberately choose to kill the homeless person and save the executive/doctor. One day, Noah's robocar is faced with this choice, and it deliberately kills the homeless person.

worry_self_robocar How worried are you about this brand of robocar unnecessarily hitting you?

Not worried at all Extremely worried

	0	10	20	30	40	50	60	70	80	90	100
1 ()						1					
worry_others_robocar How worried are you abo	ut th	is br	and	of ro	boca	ar un	nece	essa	rily h	itting	3
other people?	ļ	Not v	vorri	ed at	all		Ext	reme	ely w	orrie	d
	0	10	20	30	40	50	60	70	80	90	100
1 ()						-					
End of Block: Page 4: Worry Questions											
Start of Block: Attention Check #2											
AC_3_intent_homeless Did the Robocar kill a	pers	son	delik	erat	ely,	ranc	dom	ly, o	r nei	ther	?
O Deliberately (1)											
Randomly (2)											
O Neither (3)											
. ,											
AC_4_intent_homeless Did the robocar kill an	040	cuti	ve/d	octo	ra	hom	عمامد	e ne	reoi	n or	
neither?	CAC	cuti	v e/u	0010	1, α		icics	s pe	.1301	ii, Oi	
C Executive/Doctor (1)											
O Homeless person (2)											
()											
O Neither (3)											

random_executive **Read the scenario below** about a self-driving car **carefully**. **Once you are finished**, **you will be asked to answer some questions about it**.

Noah buys a robocar that has been programmed to have no preference between executives/doctors and homeless people. If it is ever faced with no other choice but to hit and kill an executive/doctor versus a homeless person, it will randomly choose to kill one of them. One day, Noah's robocar is faced with this choice, and it randomly kills the executive/doctor.

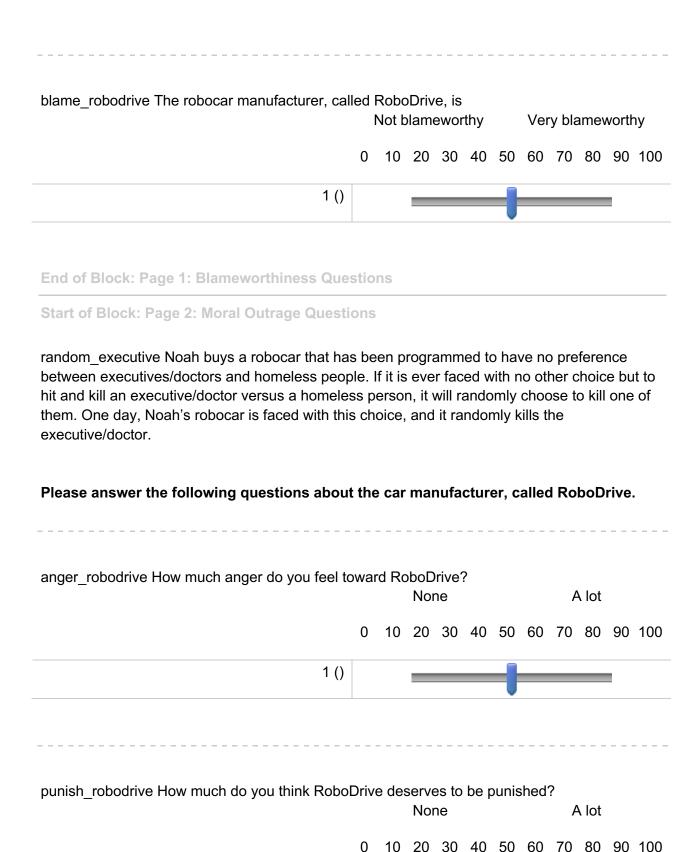
End of Block: Random, Kills Executive

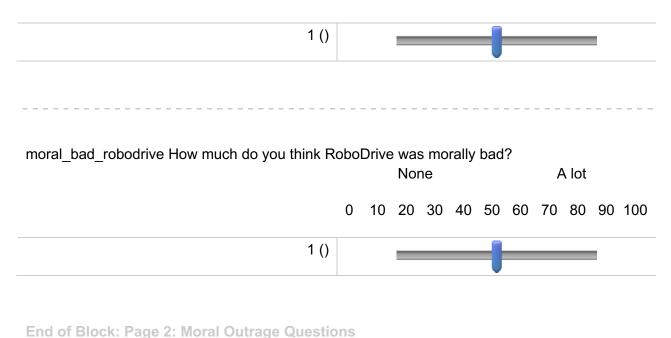
Start of Block: Page 1: Blameworthiness Questions

random executive You will now answer some questions about the scenario.

Noah buys a robocar that has been programmed to have no preference between executives/doctors and homeless people. If it is ever faced with no other choice but to hit and kill an executive/doctor versus a homeless person, it will randomly choose to kill one of them. One day, Noah's robocar is faced with this choice, and it randomly kills the executive/doctor.

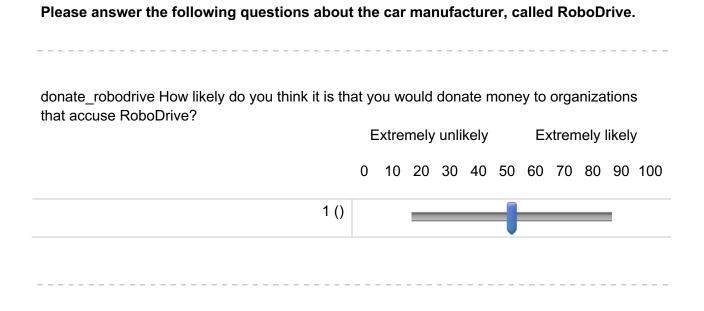


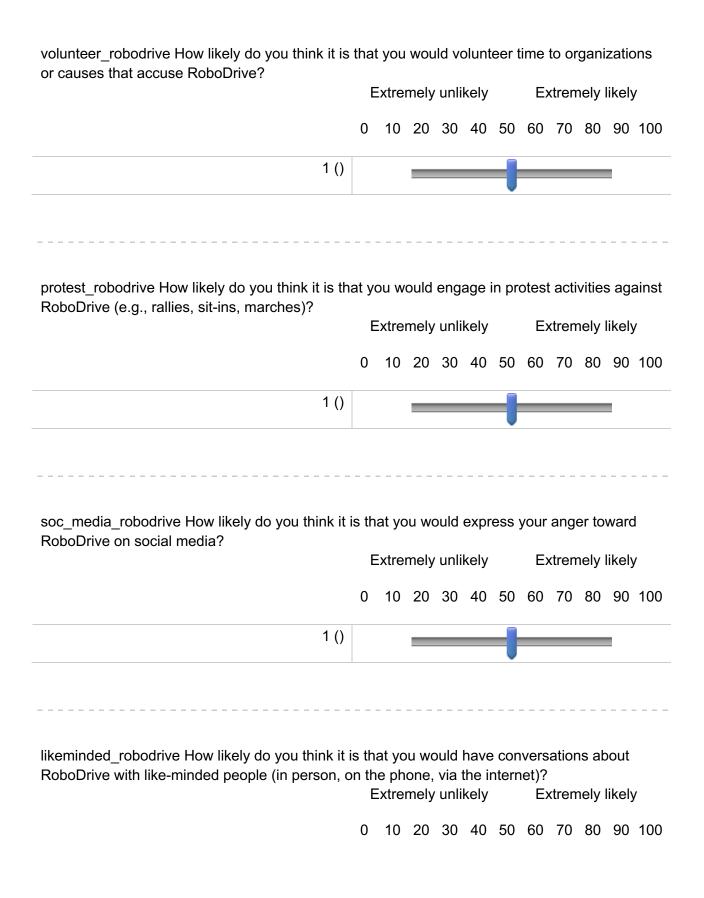


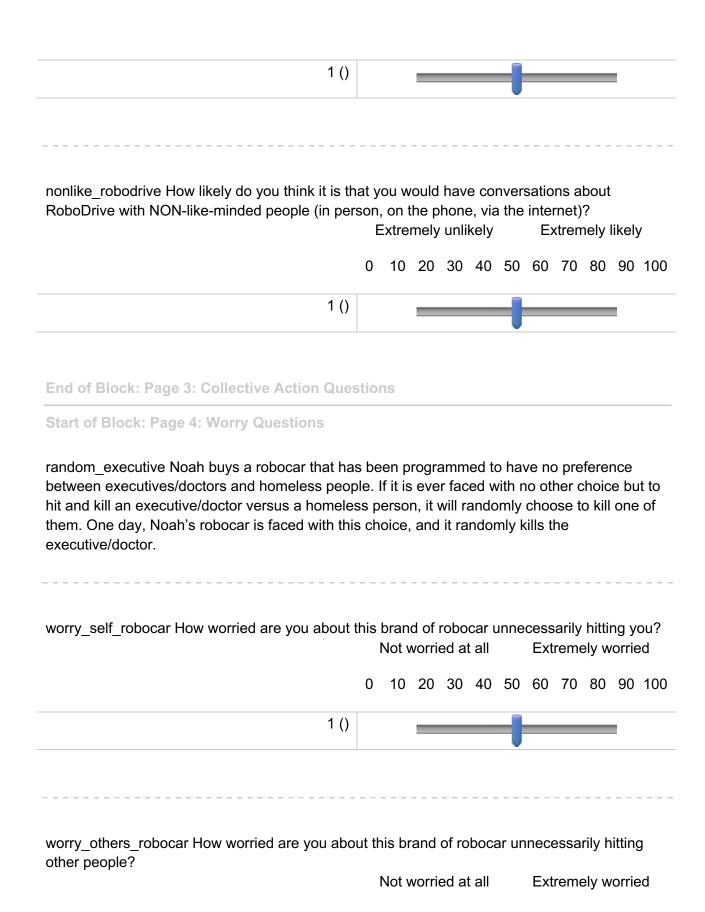


Start of Block: Page 3: Collective Action Questions

random_executive Noah buys a robocar that has been programmed to have no preference between executives/doctors and homeless people. If it is ever faced with no other choice but to hit and kill an executive/doctor versus a homeless person, it will randomly choose to kill one of them. One day, Noah's robocar is faced with this choice, and it randomly kills the executive/doctor.







1 ()	
End of Block: Page 4: Worry Questions	
Start of Block: Attention Check #2	
AC_3_random_exec Did the Robocar kill a per	son deliberately, randomly, or neither?
O Deliberately (1)	
Randomly (2)	
O Neither (3)	
AC_4_random_exec Did the robocar kill an exneither?	ecutive/doctor, a homeless person, or
C Executive/Doctor (1)	
O Homeless person (2)	
O Neither (3)	

Start of Block: Random, Kills Homeless

End of Block: Attention Check #2

random_homeless Read the scenario below about a self-driving car carefully. Once you are finished, you will be asked to answer some questions about it.

Noah buys a robocar that has been programmed to have no preference between executives/doctors and homeless people. If it is ever faced with no other choice but to hit and kill an executive/doctor versus a homeless person, it will randomly choose to kill one of them. One day, Noah's robocar is faced with this choice, and it randomly kills the homeless person.

End of Block: Random, Kills Homeless

Start of Block: Page 1: Blameworthiness Questions

random_homeless You will now answer some questions about the scenario.

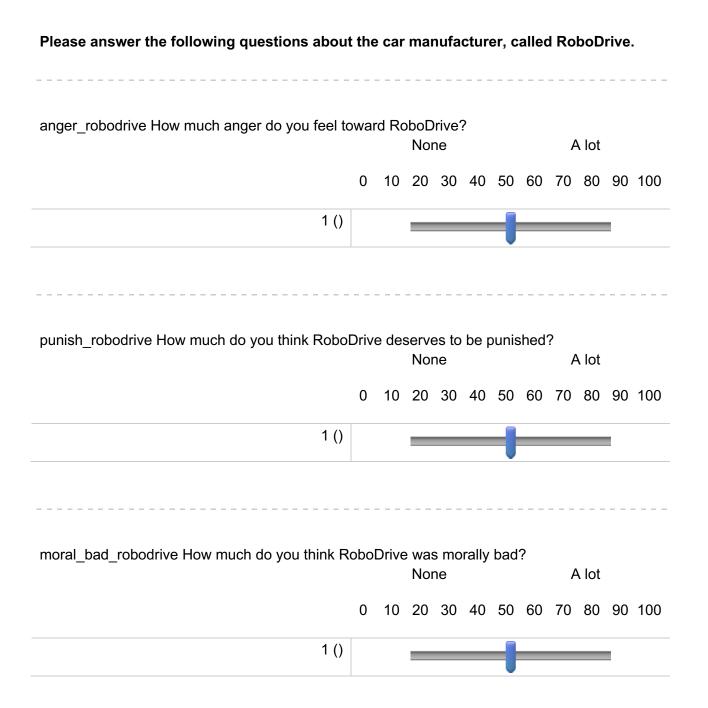
Noah buys a robocar that has been programmed to have no preference between executives/doctors and homeless people. If it is ever faced with no other choice but to hit and kill an executive/doctor versus a homeless person, it will randomly choose to kill one of them. One day, Noah's robocar is faced with this choice, and it randomly kills the homeless person.

blame noah Noah is Not blameworthy Very blameworthy 0 10 20 30 40 50 60 70 80 90 100 1() blame robocar The robocar is Not blameworthy Very blameworthy 0 10 20 30 40 50 60 70 80 90 100 1 () blame robodrive The robocar manufacturer, called RoboDrive, is Not blameworthy Very blameworthy 0 10 20 30 40 50 60 70 80 90 100 1 ()

End of Block: Page 1: Blameworthiness Questions

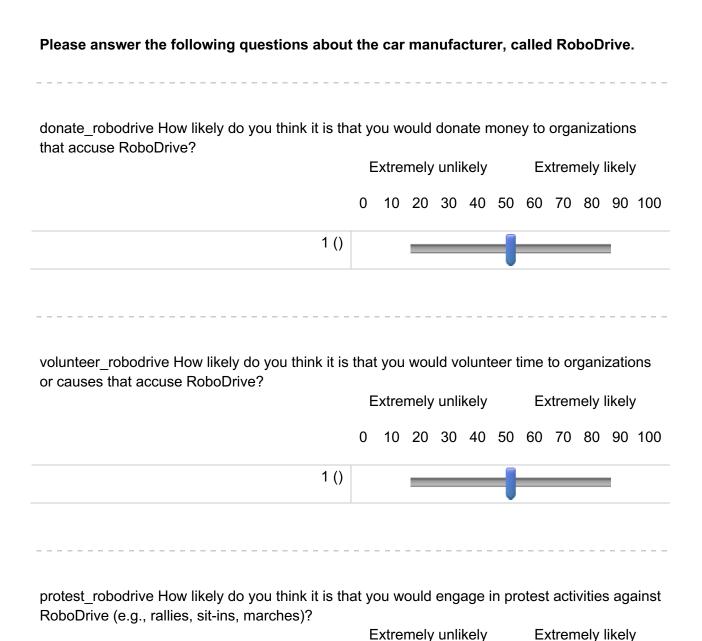
Start of Block: Page 2: Moral Outrage Questions

random_homeless Noah buys a robocar that has been programmed to have no preference between executives/doctors and homeless people. If it is ever faced with no other choice but to hit and kill an executive/doctor versus a homeless person, it will randomly choose to kill one of them. One day, Noah's robocar is faced with this choice, and it randomly kills the homeless person.

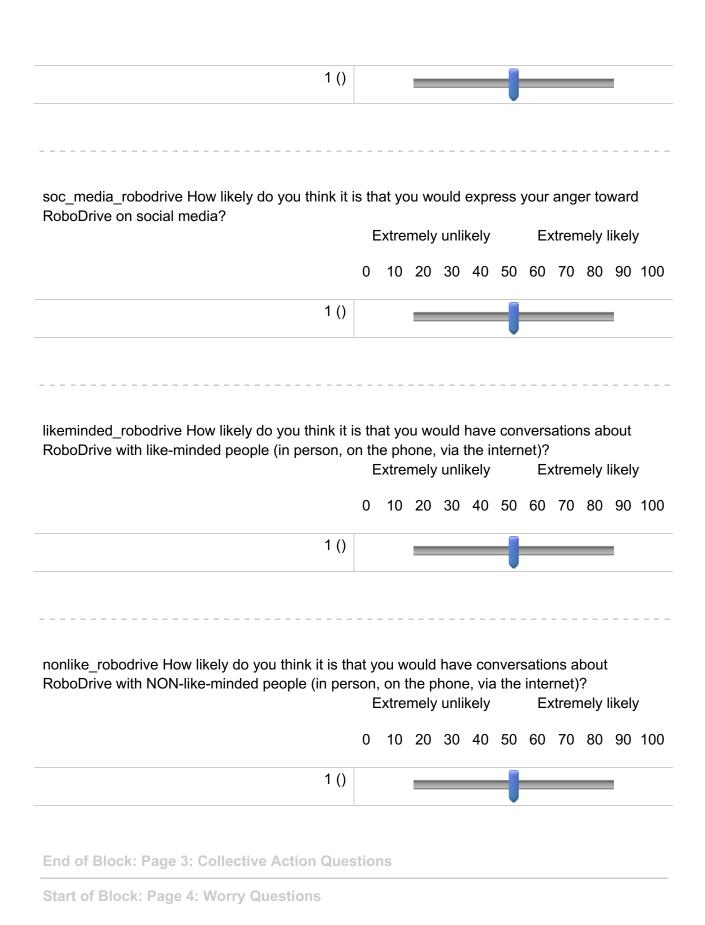


Start of Block: Page 3: Collective Action Questions

random_homeless Noah buys a robocar that has been programmed to have no preference between executives/doctors and homeless people. If it is ever faced with no other choice but to hit and kill an executive/doctor versus a homeless person, it will randomly choose to kill one of them. One day, Noah's robocar is faced with this choice, and it randomly kills the homeless person.



0 10 20 30 40 50 60 70 80 90 100



random_homeless Noah buys a robocar that ha between executives/doctors and homeless peop hit and kill an executive/doctor versus a homelest them. One day, Noah's robocar is faced with this person.	ole. I ss p	f it is erso	eve	er fac will ra	ed wando	ith r mly	o otl	ner c	hoic b kill	e bu one	
worry_self_robocar How worried are you about				robo ed at		ınne		arily reme			
	0	10	20	30	40	50	60	70	80	90	100
1 ()						-					
worry_others_robocar How worried are you abo other people?	ut th	nis bı	and	of ro	boca	ar un	nece	essaı	rily h	itting	 1
outer people:	I	Not v	worri	ed a	t all		Ext	reme	ely w	orrie	
outer people:	0			ed at		50			•		d
1 ()						50			•		d
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1 ()						50			•		d
1 () End of Block: Page 4: Worry Questions	0	10	20	30	40	-	60	70	80	90	d 100
1 () End of Block: Page 4: Worry Questions Start of Block: Attention Check #2	0	10	20	30	40	-	60	70	80	90	d 100
1 () End of Block: Page 4: Worry Questions Start of Block: Attention Check #2 AC_3_random_homeless Did the Robocar kill	0	10	20	30	40	-	60	70	80	90	d 100

AC_4_random_homeless Did the robocar kill an neither?	executive/doctor, a ho	meless person, or
C Executive/Doctor (1)		
O Homeless person (2)		
O Neither (3)		
End of Block: Attention Check #2		
Start of Block: Intentional, Kills Law-Abider		
intentional_lawful Read the scenario below about finished , you will be asked to answer some que		ully. Once you are
Noah buys a robocar that has been programmed to people. If it is ever faced with no other choice but to versus a person who legally walked on a crosswall abiding person and save the law-breaking person. choice, and it deliberately kills the law-abiding person.	o hit and kill a person was, it will deliberately choo One day, Noah's roboca	tho illegally jaywalked ose to kill the law-
End of Block: Intentional, Kills Law-Abider		
Start of Block: Page 1: Blameworthiness Quest	ions	
intentional_lawful You will now answer some que	estions about the scen	ario.
Noah buys a robocar that has been programmed to people. If it is ever faced with no other choice but to versus a person who legally walked on a crosswall abiding person and save the law-breaking person. choice, and it deliberately kills the law-abiding person.	o hit and kill a person what, it will deliberately choo One day, Noah's roboca	no illegally jaywalked ose to kill the law-
blame_noah Noah is	Not blameworthy	Very blameworthy

0 10 20 30 40 50 60 70 80 90 100

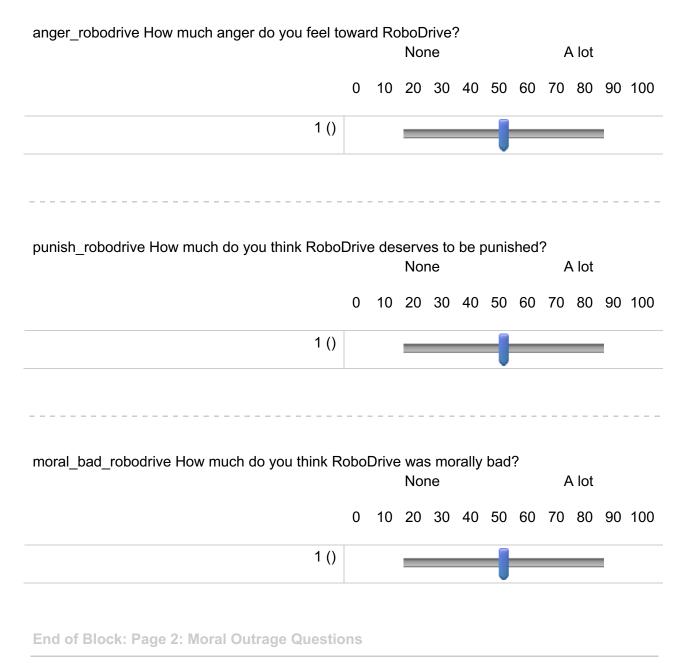


End of Block: Page 1: Blameworthiness Questions

Start of Block: Page 2: Moral Outrage Questions

intentional_lawful Noah buys a robocar that has been programmed to favor law-breaking people over law-abiding people. If it is ever faced with no other choice but to hit and kill a person who illegally jaywalked versus a person who legally walked on a crosswalk, it will deliberately choose to kill the law-abiding person and save the law-breaking person. One day, Noah's robocar is faced with this choice, and it deliberately kills the law-abiding person.

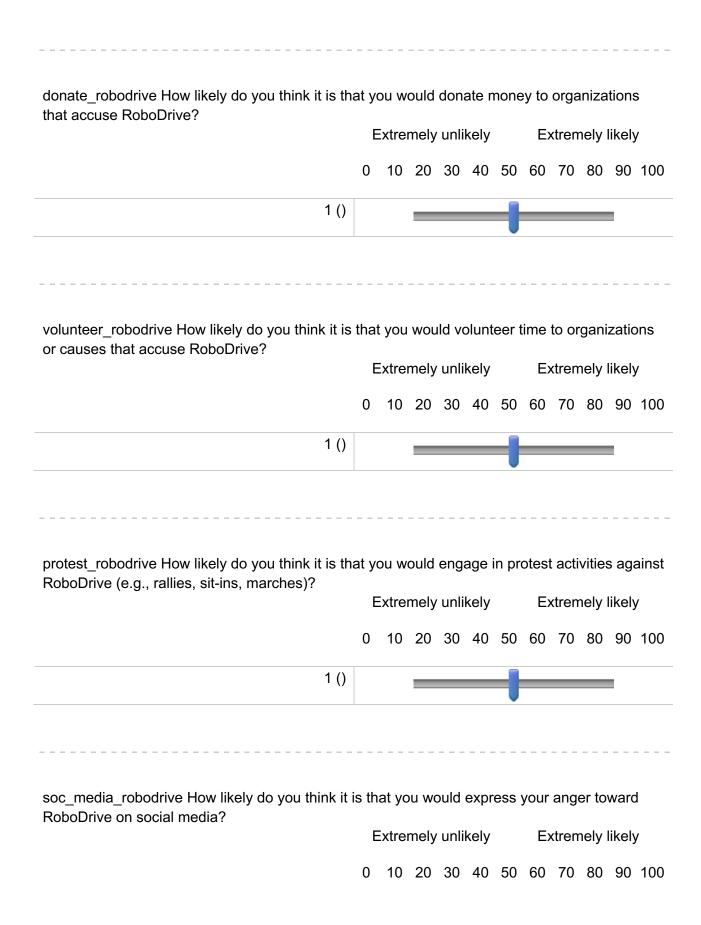
Please answer the following questions about the car manufacturer, called RoboDrive.

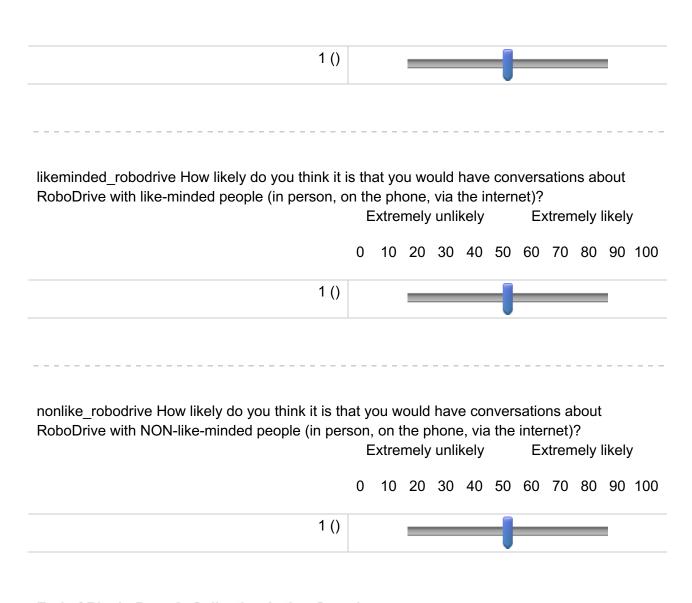


Start of Block: Page 3: Collective Action Questions

intentional_lawful Noah buys a robocar that has been programmed to favor law-breaking people over law-abiding people. If it is ever faced with no other choice but to hit and kill a person who illegally jaywalked versus a person who legally walked on a crosswalk, it will deliberately choose to kill the law-abiding person and save the law-breaking person. One day, Noah's robocar is faced with this choice, and it deliberately kills the law-abiding person.

Please answer the following questions about the car manufacturer, called RoboDrive.





End of Block: Page 3: Collective Action Questions

Start of Block: Page 4: Worry Questions

intentional_lawful Noah buys a robocar that has been programmed to favor law-breaking people over law-abiding people. If it is ever faced with no other choice but to hit and kill a person who illegally jaywalked versus a person who legally walked on a crosswalk, it will deliberately choose to kill the law-abiding person and save the law-breaking person. One day, Noah's robocar is faced with this choice, and it deliberately kills the law-abiding person.

worry_self_robocar How worried are you about this brand of robocar unnecessarily hitting you?

Not worried at all Extremely worried

	0	10	20	30	40	50	60	70	80	90	100
1 ()						-					
worry_others_robocar How worried are you abo	ut th	nis br	and	of ro	boca	ar un	nece	essai	rily h	itting)
other people?		Not v	vorri	ed at	all		Ext	reme	ely w	orrie	ed
	0	10	20	30	40	50	60	70	80	90	100
1 ()											
						_					
End of Block: Page 4: Worry Questions											
Start of Block: Attention Check #2											
AC_3_intent_lawful Did the Robocar kill a pers	son	delil	bera	tely,	ran	dom	ly, o	r ne	itheı	r ?	
O Deliberately (1)											
Randomly (2)											
O Neither (3)											
AC_4_intent_lawful Did the robocar kill a law-	abic	ling	pers	on, a	a lav	v-bre	akin	g pe	rson	, or	
neither?											
Law-abiding person (1)											
O Law-breaking person (2)											
O Neither (3)											
End of Block: Attention Check #2											

Start of Block: Intentional, Kills Law-Breaker

intentional_lawless **Read the scenario below** about a self-driving car **carefully. Once you are finished**, **you will be asked to answer some questions about it.**

Noah buys a robocar that has been programmed to favor law-abiding people over law-breaking people. If it is ever faced with no other choice but to hit and kill a person who illegally jaywalked versus a person who legally walked on a crosswalk, it will deliberately choose to kill the law-breaking person and save the law-abiding person. One day, Noah's robocar is faced with this choice, and it deliberately kills the law-breaking person.

End of Block: Intentional, Kills Law-Breaker

Start of Block: Page 1: Blameworthiness Questions

intentional lawless You will now answer some questions about the scenario.

Noah buys a robocar that has been programmed to favor law-abiding people over law-breaking people. If it is ever faced with no other choice but to hit and kill a person who illegally jaywalked versus a person who legally walked on a crosswalk, it will deliberately choose to kill the law-breaking person and save the law-abiding person. One day, Noah's robocar is faced with this choice, and it deliberately kills the law-breaking person.

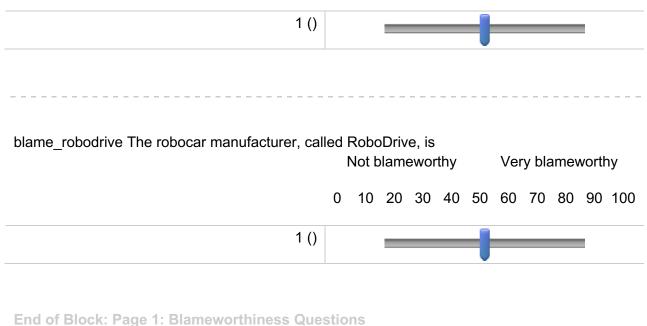
blame noah Noah is

Not blameworthy Very blameworthy
0 10 20 30 40 50 60 70 80 90 100

1 ()

blame robocar The robocar is

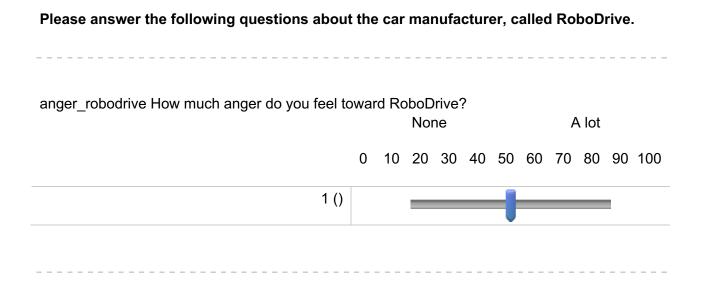
Not blameworthy Very blameworthy
0 10 20 30 40 50 60 70 80 90 100

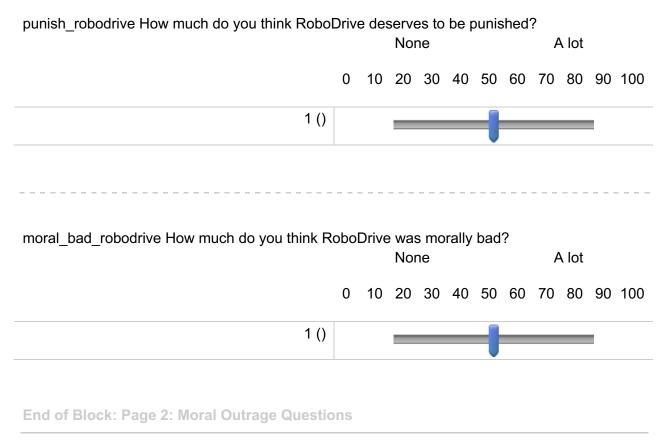


End of block. Page 1. biameworthiness Questions

Start of Block: Page 2: Moral Outrage Questions

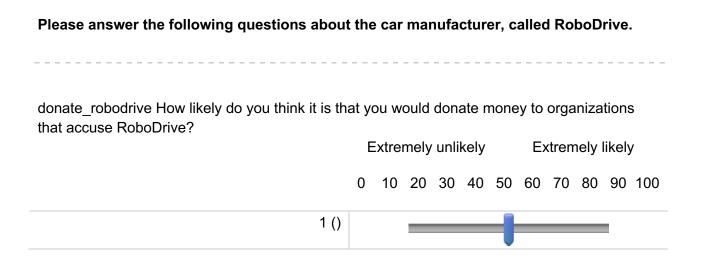
intentional_lawless Noah buys a robocar that has been programmed to favor law-abiding people over law-breaking people. If it is ever faced with no other choice but to hit and kill a person who illegally jaywalked versus a person who legally walked on a crosswalk, it will deliberately choose to kill the law-breaking person and save the law-abiding person. One day, Noah's robocar is faced with this choice, and it deliberately kills the law-breaking person.

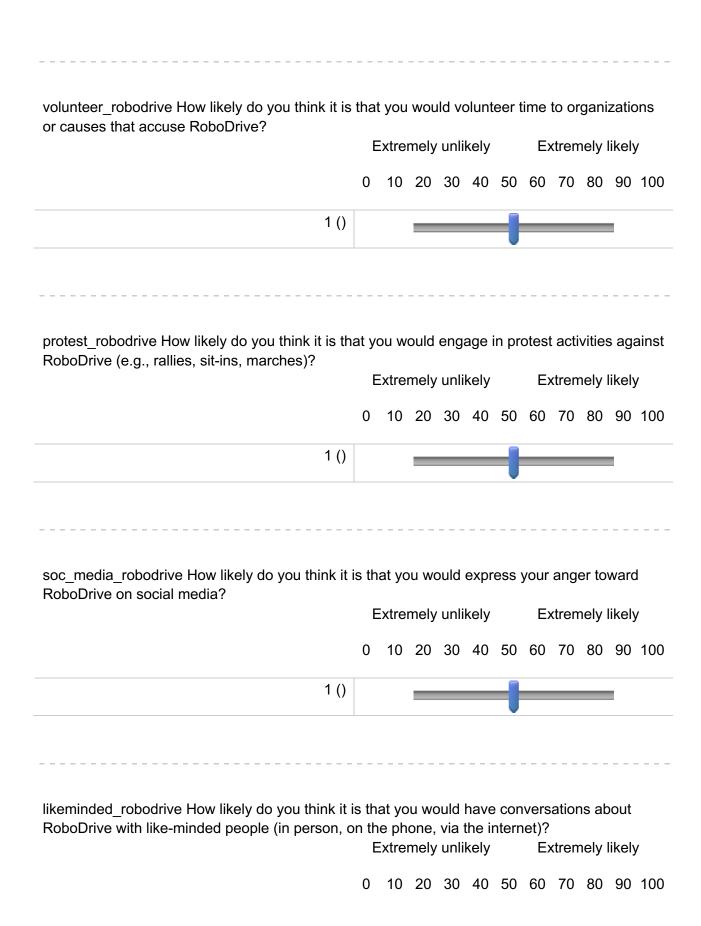


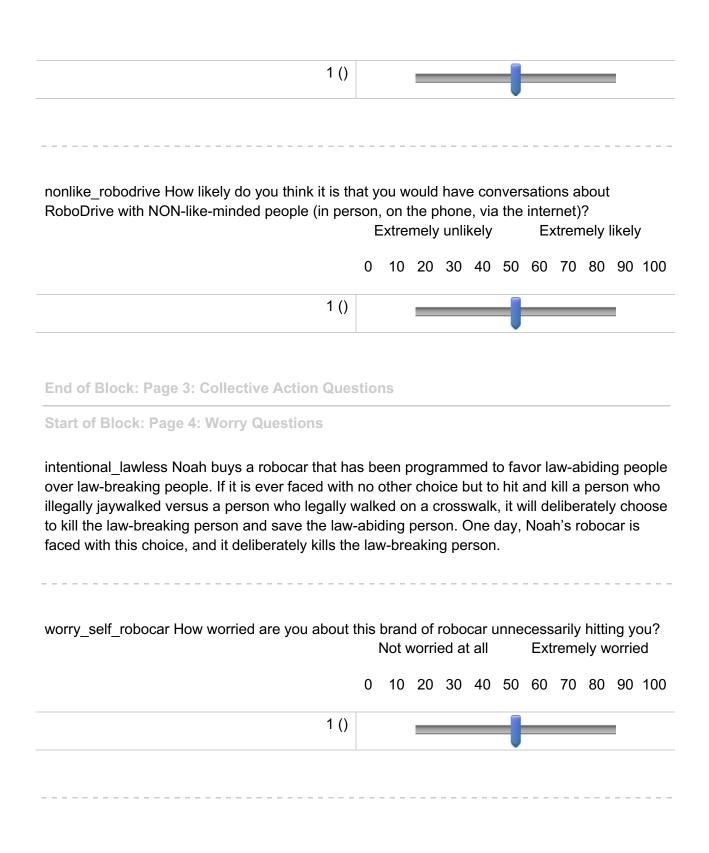


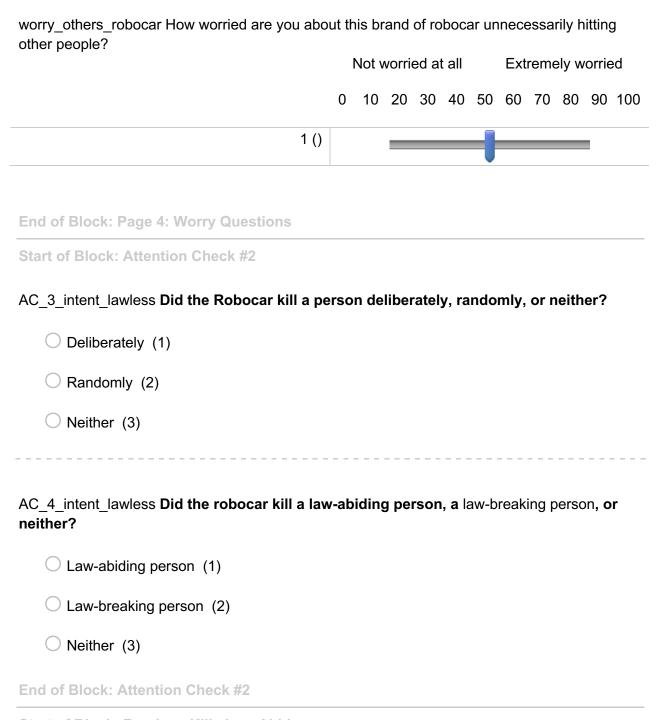
Start of Block: Page 3: Collective Action Questions

intentional_lawless Noah buys a robocar that has been programmed to favor law-abiding people over law-breaking people. If it is ever faced with no other choice but to hit and kill a person who illegally jaywalked versus a person who legally walked on a crosswalk, it will deliberately choose to kill the law-breaking person and save the law-abiding person. One day, Noah's robocar is faced with this choice, and it deliberately kills the law-breaking person.









Start of Block: Random, Kills Law-Abider

random_lawful **Read the scenario below** about a self-driving car **carefully. Once you are finished, you will be asked to answer some questions about it.**

Noah buys a robocar that has been programmed to have no preference between law-abiding people and law-breaking people. If it is ever faced with no other choice but to hit and kill a person who illegally jaywalked versus a person who legally walked on a crosswalk, it will

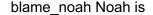
randomly choose to kill one of them. One day, Noah's robocar is faced with this choice, and it randomly kills the law-abiding person.

End of Block: Random, Kills Law-Abider

Start of Block: Page 1: Blameworthiness Questions

random_lawful You will now answer some questions about the scenario.

Noah buys a robocar that has been programmed to have no preference between law-abiding people and law-breaking people. If it is ever faced with no other choice but to hit and kill a person who illegally jaywalked versus a person who legally walked on a crosswalk, it will randomly choose to kill one of them. One day, Noah's robocar is faced with this choice, and it randomly kills the law-abiding person.



Not blameworthy Very blameworthy
0 10 20 30 40 50 60 70 80 90 100



blame_robocar The robocar is

Not blameworthy Very blameworthy
0 10 20 30 40 50 60 70 80 90 100

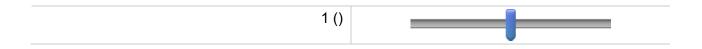


blame_robodrive The robocar manufacturer, called RoboDrive, is

Not blameworthy

Very blameworthy

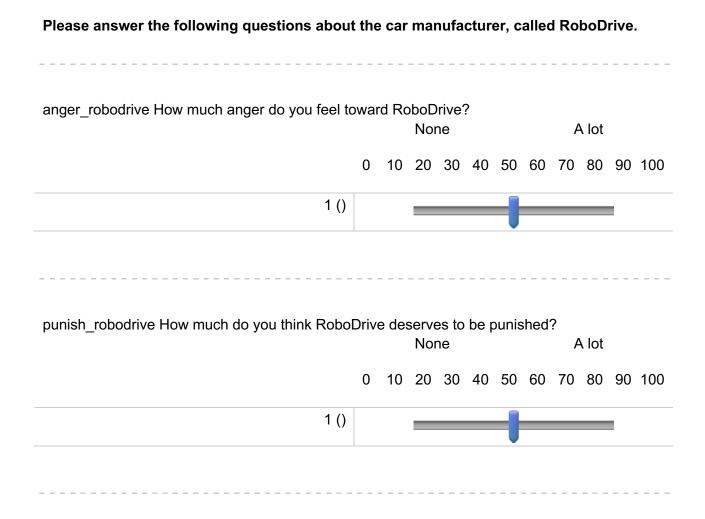
0 10 20 30 40 50 60 70 80 90 100

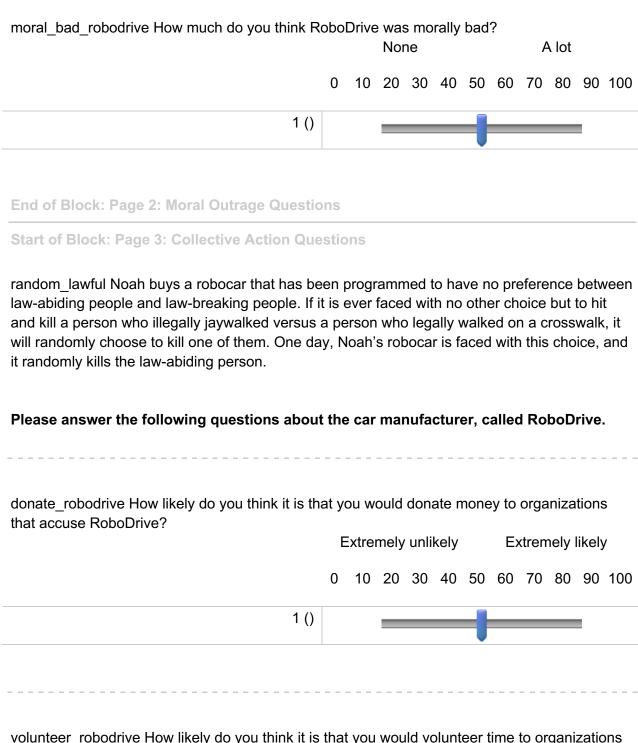


End of Block: Page 1: Blameworthiness Questions

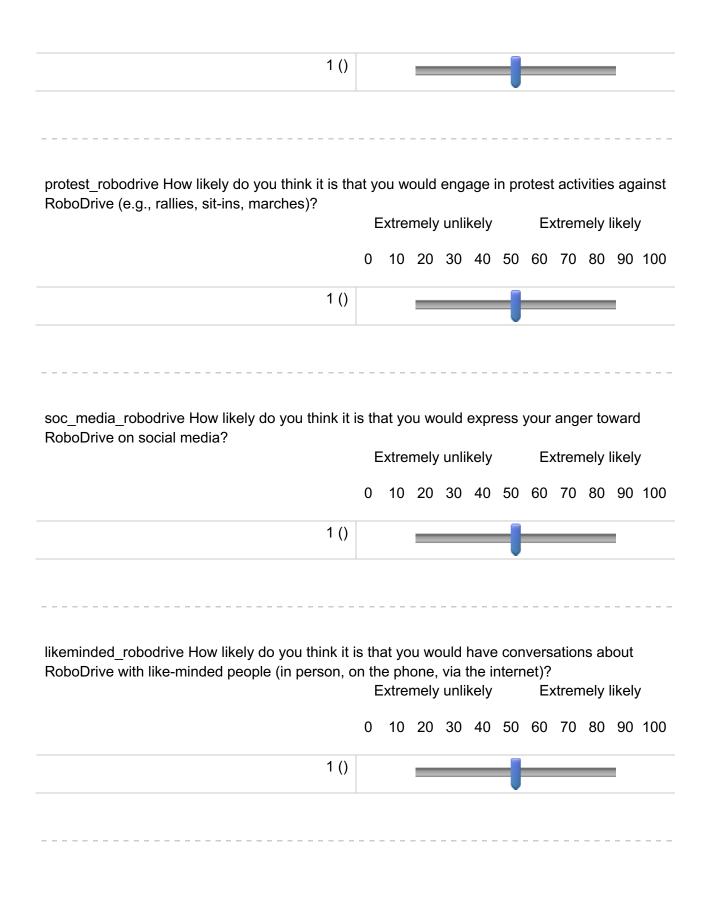
Start of Block: Page 2: Moral Outrage Questions

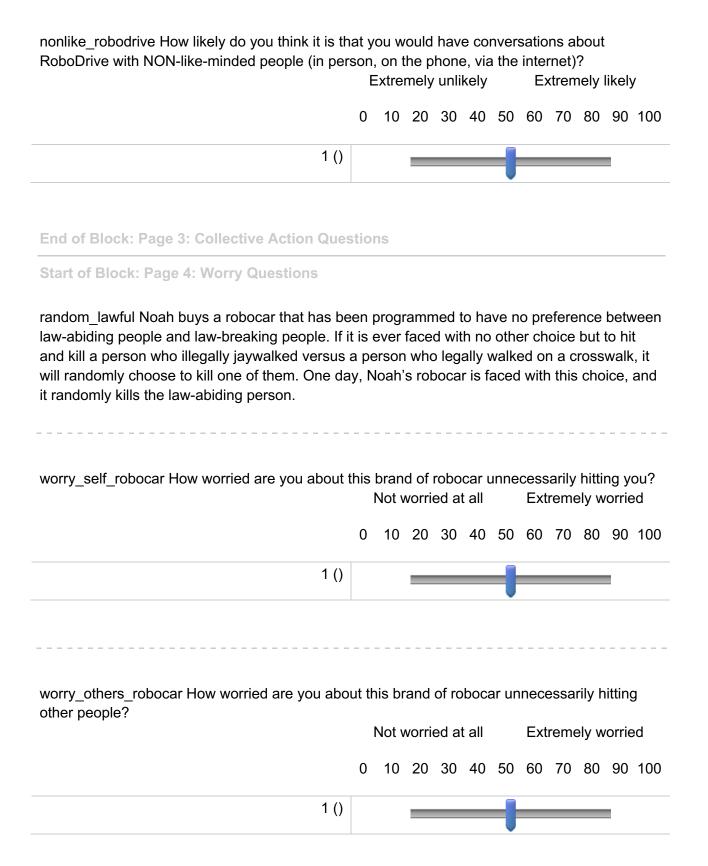
random_lawful Noah buys a robocar that has been programmed to have no preference between law-abiding people and law-breaking people. If it is ever faced with no other choice but to hit and kill a person who illegally jaywalked versus a person who legally walked on a crosswalk, it will randomly choose to kill one of them. One day, Noah's robocar is faced with this choice, and it randomly kills the law-abiding person.





volunteer_robodrive How likely do you think it is that you would volunteer time to organizations or causes that accuse RoboDrive?





End of Block: Page 4: Worry Questions Start of Block: Attention Check #2 AC 3 random lawful Did the Robocar kill a person deliberately, randomly, or neither? O Deliberately (1) Randomly (2) O Neither (3) AC_4_random_lawful Did the robocar kill a law-abiding person, a law-breaking person, or neither? Law-abiding person (1) Law-breaking person (2) O Neither (3) End of Block: Attention Check #2 Start of Block: Random, Kills Law-Breaker random lawless Read the scenario below about a self-driving car carefully. Once you are finished, you will be asked to answer some questions about it. Noah buys a robocar that has been programmed to have no preference between law-abiding people and law-breaking people. If it is ever faced with no other choice but to hit and kill a person who illegally jaywalked versus a person who legally walked on a crosswalk, it will randomly choose to kill one of them. One day, Noah's robocar is faced with this choice, and it randomly kills the law-breaking person. End of Block: Random, Kills Law-Breaker **Start of Block: Page 1: Blameworthiness Questions**

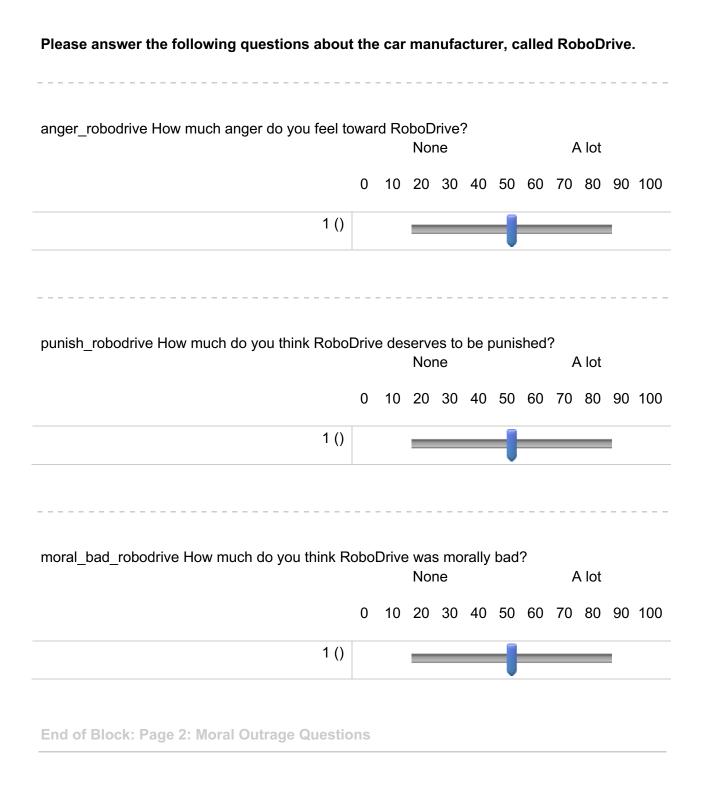
random lawless You will now answer some questions about the scenario.

Page 111 of 119

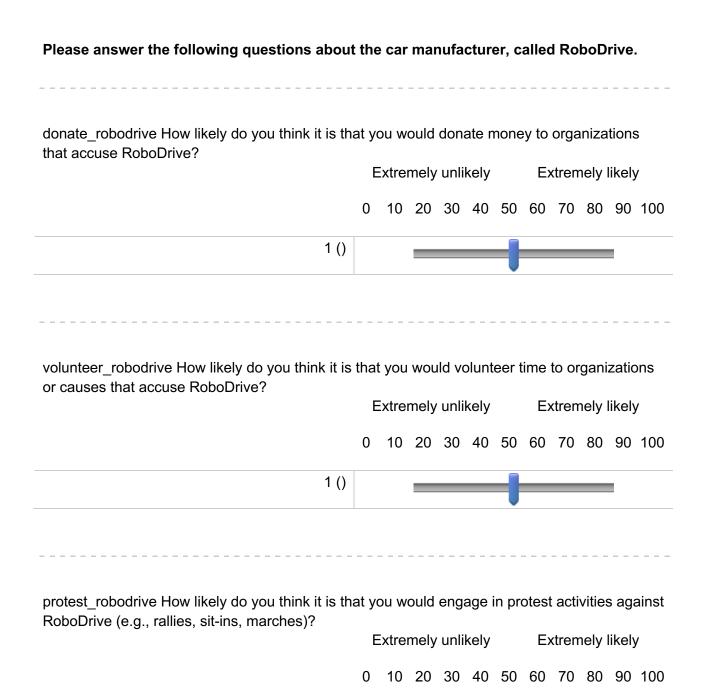
people and law-breaking people. If it is ever faced with no other choice but to hit and kill a person who illegally jaywalked versus a person who legally walked on a crosswalk, it will randomly choose to kill one of them. One day, Noah's robocar is faced with this choice, and it randomly kills the law-breaking person. blame noah Noah is Not blameworthy Very blameworthy 0 10 20 30 40 50 60 70 80 90 100 1() blame_robocar The robocar is Not blameworthy Very blameworthy 0 10 20 30 40 50 60 70 80 90 100 1 () blame_robodrive The robocar manufacturer, called RoboDrive, is Not blameworthy Very blameworthy 0 10 20 30 40 50 60 70 80 90 100 1 () **End of Block: Page 1: Blameworthiness Questions Start of Block: Page 2: Moral Outrage Questions**

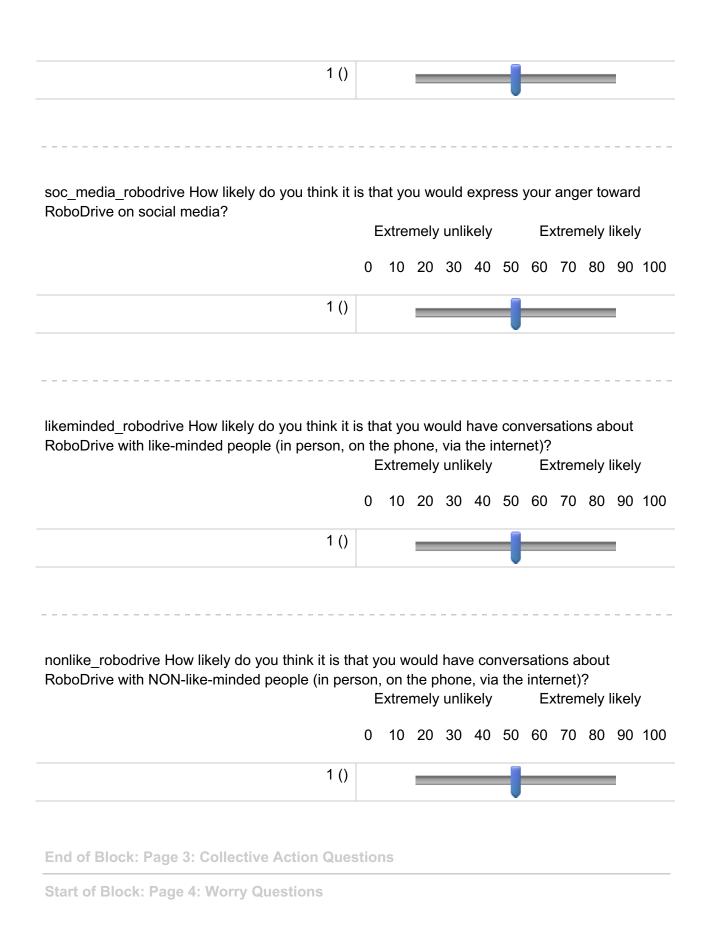
Noah buys a robocar that has been programmed to have no preference between law-abiding

random_lawless Noah buys a robocar that has been programmed to have no preference between law-abiding people and law-breaking people. If it is ever faced with no other choice but to hit and kill a person who illegally jaywalked versus a person who legally walked on a crosswalk, it will randomly choose to kill one of them. One day, Noah's robocar is faced with this choice, and it randomly kills the law-breaking person.



random_lawless Noah buys a robocar that has been programmed to have no preference between law-abiding people and law-breaking people. If it is ever faced with no other choice but to hit and kill a person who illegally jaywalked versus a person who legally walked on a crosswalk, it will randomly choose to kill one of them. One day, Noah's robocar is faced with this choice, and it randomly kills the law-breaking person.





random_lawless Noah buys a robocar that has between law-abiding people and law-breaking p to hit and kill a person who illegally jaywalked ve crosswalk, it will randomly choose to kill one of t choice, and it randomly kills the law-breaking pe	eopl ersu: hem	le. If s a p n. Or	it is erso	ever n wh	face lo le	d wi gally	th no wall	oth ked o	er ch on a	oice	
worry_self_robocar How worried are you about t				robo ed at		ınne		arily reme			
	0	10	20	30	40	50	60	70	80	90	100
1 ()						-					
worry_others_robocar How worried are you abo	ut th	iis br	and	of ro	boca	ar un	nece	essa	rily h	itting	9
worry_others_robocar How worried are you abo other people?				of ro		ar un		essa reme			
-		Not v	worri	ed at	all		Ext	reme	ely w	orrie	
-	I	Not v	worri	ed at	all		Ext	reme	ely w	orrie	ed
other people?	I	Not v	worri	ed at	all		Ext	reme	ely w	orrie	ed
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other people? 1 ()	I	Not v	worri	ed at	all		Ext	reme	ely w	orrie	ed
other people? 1 () End of Block: Page 4: Worry Questions	0	10	vorri	ed at	40	50	Ext 60	70	80	90	ed 100
other people? 1 () End of Block: Page 4: Worry Questions Start of Block: Attention Check #2	0	10	vorri	ed at	40	50	Ext 60	70	80	90	ed 100
other people? 1 () End of Block: Page 4: Worry Questions Start of Block: Attention Check #2 AC_3_random_lawless Did the Robocar kill a	0	10	vorri	ed at	40	50	Ext 60	70	80	90	ed 100
other people? 1 () End of Block: Page 4: Worry Questions Start of Block: Attention Check #2 AC_3_random_lawless Did the Robocar kill a O Deliberately (1)	0	10	vorri	ed at	40	50	Ext 60	70	80	90	ed 100

AC_4_random_lawless Did the robocar kill a law-abiding person , a law-breaking person, or neither?
C Law-abiding person (1)
C Law-breaking person (2)
O Neither (3)
End of Block: Attention Check #2
Start of Block: Demographics
gender What is your gender?
○ Male (1)
○ Female (2)
O Prefer not to disclose (3)
Other (4)
ethnicity What is your ethnicity?
○ White (1)
O Black (2)
O Asian (3)
○ Mixed (4)
Other (5)

age What is your a ge (in years)?
education Please indicate the highest level of education completed.
Grammar School (1)
○ High School or Equivalent (2)
O Vocational/Technical School (2 year) (3)
○ Some College (4)
College Graduate (4 year) (5)
○ Masters Degree (MS) (6)
O Doctoral Degree (PhD) (7)
O Professional Degree (MD, JD, etc.) (8)
Other (9)
comments Any comments on the survey?
End of Block: Demographics
Start of Block: Debrief

debrief

SOCIAL DECISION-MAKING DEBRIEFING What was this study about? The aim of the current study is to explore how cognitive, affective, and neural processes change when social relations shift from "me vs. you" to "us vs. them." How was the study conducted? In today's study, you may have been asked to complete several self-report questionnaires that contain questions about thoughts, feelings, and personality attributes. You were then asked to view words, photos, symbols, or animated scenes that look like video games, and to make

decisions about these items. You may have been asked to interact with another person. What was the hypothesis? We expect to find that people make less positive judgments about and behave less generously toward out-group relative to in-group members. Did we tell you everything? Yes. There was no deception involved in this study. Why is this study important? People who accurately identify, value, and cooperate with in-group members enjoy numerous benefits, including the fulfillment of many basic psychological needs. The functional benefits of group membership notwithstanding, group life is also a source of social strife and destruction (e.g., pressure to conform within groups, protracted conflict between groups. Intergroup conflict, in particular, has been described as "one of the greatest problems facing the world today" (Cohen & Insko, 2008). The aim of the current study is to explore how cognitive, affective, and neural processes change when social relations shift from "me vs. you" to "us vs. them." This research will contribute to our basic understanding of human psychology intergroup contexts, and may also have applications to areas of law and policy, both domestic and international. References: Cikara, M., Bruneau, E. G., Van Bavel, J. J., & Saxe, R. (2014). Their pain gives us pleasure: How intergroup dynamics shape empathic failures and counterempathic responses. Journal of Experimental Social Psychology, 55, 110-125. Cikara, M., Jenkins, A., Dufour, N., & Saxe, R. (2014). Reduced self-referential neural response during intergroup competition predicts later willingness to harm a competitor. Neurolmage, 96, 36-43. How to contact the researcher: If you have questions or concerns about your participation or payment, or want to request a summary of research findings, please contact the researcher: Mina Cikara, Assistant Professor of Psychology, 617.495.3819; 1420 William James Hall, 33 Kirkland St, Cambridge, MA 02138; mcikara@fas.harvard.edu. For any problems related to this study, you may also contact the faculty member who is supervising it: Mina Cikara, mcikara@fas.harvard.edu. Whom to contact about your rights as a participant in this research: For questions, concerns, suggestions, or complaints that have not been or cannot be addressed by the researcher, or to report research-related harm, please contact the Committee on the Use of Human Subjects in Research at Harvard University, 44-R Brattle Street, Suite 200, Cambridge, MA 02138. Phone: 617-496-2847. Email: cuhs@harvard.edu

End of Block: Debrief