AV Scenarios - Proj 1 Exp 3

Start of Block: informed consent

consent

Informed Consent

Participation is voluntary

It is your choice whether or not to participate in this research. If you choose to participate, you may change your mind and leave the study at any time. Refusal to participate or stopping your participation will involve no penalty or loss of benefits to which you are otherwise entitled.

What is the purpose of this research?

The purpose of this research is to examine human visual performance and judgments. All data from this experiment are gathered for scientific purposes and will contribute to our eventual understanding of brain and visual function. These data may be published in scientific journals so that other researchers may have access to these data.

How long will I take part in this research?

Your participation will take approximately 7 minutes to complete.

What can I expect if I take part in this research?

As a participant, you will be asked to look at images presented on a video display and give responses with key presses or movements of a mouse pointing device. Your response may involve responding as quickly as you can, memorizing what you saw, making a judgment, or completing a questionnaire. You will also be asked to complete a demographics form.

What are the risks and possible discomforts?

If you choose to participate, the effects should be comparable to those you would experience from viewing a computer monitor for 7 minutes and using a mouse or keyboard, e.g., eye fatigue. You are free to take breaks throughout the session. Some of the images and stories are mildly emotional, and some of the written stories are disgust-inducing.

Will I be compensated for participating in this research?

You will be compensated \$0.5 for this study. You will still receive payment if you withdraw early.

If I take part in this research, how will my privacy be protected? What happens to the information you collect?

Your participation in this experiment will remain confidential, and your identity will not be stored

with your data.

O John (1)

O Paul (2)

O Neither John nor Paul (3)

O Both John and Paul (4)

If I have any questions, concerns or complaints about this research study, who can I talk to? The researcher for this study is Julian De Freitas who can be reached at 626.559.6401; #161 Morgan Hall, 15 Harvard Way, Boston MA, 02163; jdefreitas@hbs.edu. If you have questions, concerns, or complaints, If you would like to talk to the research team, If you think the research has harmed you, or If you wish to withdraw from the study. This research has been reviewed by the Committee on the Use of Human Subjects in Research at Harvard University. They can be reached at 617-496-2847, 1350 Massachusetts Avenue, Suite 935, Cambridge, MA 02138, or cuhs@harvard.edu for any of the following: If your questions, concerns, or complaints are not being answered by the research team, If you cannot reach the research team, If you want to talk to someone besides the research team, or If you have questions about your rights as a research participant.
consent_q Do you consent
○ Yes (1)
O No (2)
End of Block: informed_consent
Start of Block: attention_checks JS

att2 What color is grass?

att1 This is an attention check. John is taller than Paul. Who is shorter?

The fresh, uncut grass, not leaves or hay. Please make sure to select purple, so that we know you're paying attention.
○ Green (1)
O Purple (2)
End of Block: attention_checks
Start of Block: failed_attention_check
failed_checks You failed one of the attention checks. Thanks for considering the surveys!
End of Block: failed_attention_check
Start of Block: instruction
Start of Block: av_scenario
av_instruction In this study, you will evaluate blame and negligence in a traffic accident scenario.
On the next page, you will watch an animated video of a traffic scenario, depicted below. The video depicts a two-way street in which the driver of Vehicle A makes a left turn and strikes Vehicle B, seriously injuring its occupant. Vehicle B is a fully autonomous Robocar, which means that it is driven by a computer algorithm.
Vehicle A is depicted in purple and Vehicle B is depicted in blue.
Page Break



video_av Please watch the following video. As a reminder, the video depicts a two-way street in which the driver of Vehicle A makes a left turn and strikes Vehicle B, seriously injuring its occupant. Vehicle B is a fully autonomous Robocar, which means that it is driven by a computer algorithm. After you see the clip once to get a feel for it, you will see it again and answer a few questions about the events that unfolded:
Q88 Timing First Click (1) Last Click (2) Page Submit (3) Click Count (4)
Page Break

vid2_av Here is the video one more time:
Q84 Timing First Click (1)
Last Click (2)
Page Submit (3) Click Count (4)
End of Block: av_scenario
Start of Block: questions_1_AV
0440
Q116 Now, please answer the questions below about the video you just saw. When answering the
questions, please refer to the labels on the image below. Recall that Vehicle B is a fully
autonomous Robocar, which means that it is driven by a computer algorithm.
Page Break ————————————————————————————————————

vA_sue_AV

Please rate the extent to which you agree with the following statement (0=completely disagree, 100=completely agree):

How much do you agree: It would be reasonable to sue the driver of Vehicle A for the serious

injuries sustained by the occupant of Vehicle B.		ompl disag	-		Neitl nor		igree gree		Com ag	plete gree	ely
	0	10	20	30	40	50	60	70	80	90	100
1 ()			_			-					

vB_sue_AV

Please rate the extent to which you agree with the following statement (0=completely disagree, 100=completely agree):

How much do you agree: It would be reasonable to sue the **manufacturer of Vehicle B** for the serious injuries sustained by the occupant of Vehicle B.

		omp disag			Neitl nor				Com a(plete gree	-
	0	10	20	30	40	50	60	70	80	90	100
1 ()											
Page Break ————————————————————————————————————											

defective_AV

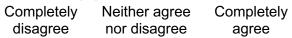
Please rate the extent to which you agree with the following statement (0=completely disagree, 100=completely agree):

How much do you agree: Vehicle B is defective	С	omp disag			Neitl nor		igree gree		Com aç	pleto	•
	0	10	20	30	40	50	60	70	80	90	100
1 ()						J					
Page Break											

negligence_AV

Please rate the extent to which you agree with the following statement (0=completely disagree, 100=completely agree):

How much do you agree: The behavior of **Vehicle B** was negligent.



0 10 20 30 40 50 60 70 80 90 100



End of Block: questions_1_AV

Start of Block: questions 2_AV

Q122

Please answer one more set of questions about the video below. Again, please refer to the following image when answering the questions. **Recall that Vehicle B is a fully autonomous Robocar, which means that it is driven by a computer algorithm.**

-		-	-		-	-	-	 	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	 	 -	-	-	-	-	-	-	 -	 	 -	-	-	-	-	-	-
Pa	ae	B	3re	a	k																																											_	

counterfactual AV

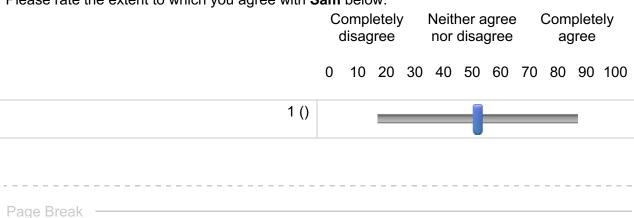
Now, please imagine that two people, Sam and Alex, are having the following discussion concerning what just happened:

Alex: "I wonder how things could have gone differently."

Sam: "Well, I really wonder what would've happened if the occupant of **Vehicle B** had more control of the vehicle."

Alex: "Really? Of all the ways things could have gone differently, that doesn't seem like the one that's worth thinking about."

Please rate the extent to which you agree with **Sam** below:



capability_AV

How much do you agree: **Vehicle B** should have been able to avoid this accident.

Completely	Neither agree	Completely
disagree	nor disagree	agree

0 10 20 30 40 50 60 70 80 90 100

1 ()	
Page Break ————————————————————————————————————	



How much do you agree: Vehicle B should avoid accidents when it is not necessarily at fault.

Completely disagree

Neither agree nor disagree

Completely agree

0 10 20 30 40 50 60 70 80 90 100

1 ()

End of Block: questions_2_AV

Start of Block: hdv scenario

hdv instruction In this study, you will evaluate blame and negligence in a traffic accident scenario.

On the next page, you will watch an animated video of a traffic scenario, depicted below. The video depicts a two-way street in which the driver of Vehicle A makes a left turn and strikes Vehicle B, seriously injuring its occupant.

Vehicle A is depicted in purple and Vehicle B is depicted in blue.

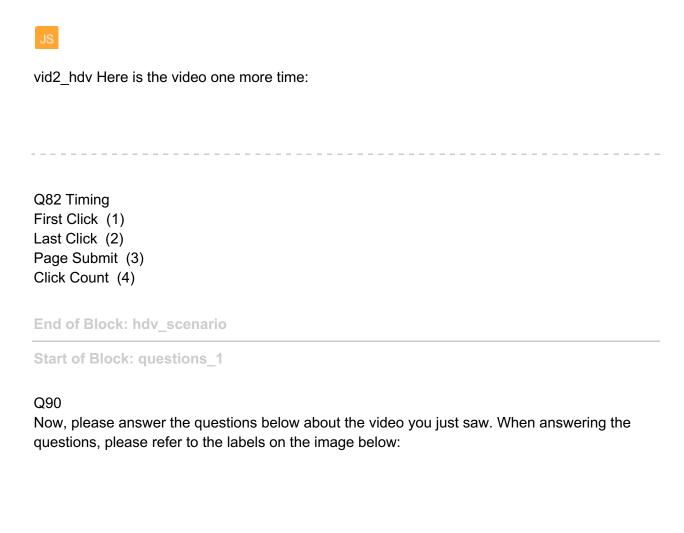
Page Break -



video_hdv Please watch the following video. As a reminder, the video depicts a two-way street in which the driver of Vehicle A makes a left turn and strikes Vehicle B, seriously injuring its occupant.

After you see the clip once to get a feel for it, you will see it again and answer a few questions about the events that unfolded:

Q87 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)



vA_sue

Please rate the extent to which you agree with the following statement (0=completely disagree, 100=completely agree):

How much do you agree: It would be reasonable to sue the **driver of Vehicle A** for the serious injuries sustained by the occupant of Vehicle B.

Completely Neither agree Completely disagree nor disagree agree

0 10 20 30 40 50 60 70 80 90 100

			 	 	 	 	-	 -	 	_	 	_	 	 	-	 -	 _	 	_	 	_	 _	 -
Pag	e Bre	ak		 																			_

vB_sue

Please rate the extent to which you agree with the following statement (0=completely disagree, 100=completely agree):

How much do you agree: It would be reasonable to sue the **manufacturer of Vehicle B** for the serious injuries sustained by the occupant of Vehicle B.

		ompl disag			Neitl nor		igree gree		Com ag	plete gree	ely
	0	10	20	30	40	50	60	70	80	90	100
1 ()				_		1					
Page Break											

defective

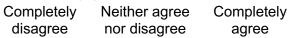
Please rate the extent to which you agree with the following statement (0=completely disagree, 100=completely agree):

How much do you agree: Vehicle B is defective	С	Completely Neither agr				_		Completely agree				
	0	10	20	30	40	50	60	70	80	90	100	
1 ()						J						
Page Break												

negligence

Please rate the extent to which you agree with	n the following statement (0=completely
disagree, 100=completely agree):	

How much do you agree: The behavior of **Vehicle B** was negligent.



0 10 20 30 40 50 60 70 80 90 100



End of Block: questions_1

Start of Block: questions_2

Q71

Please answer one more set of questions about the video below. Again, please refer to the following image when answering the questions.

Page Break -

counterfactual

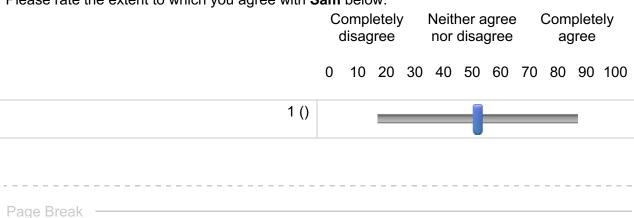
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Sam: "Well, I really wonder what would've happened if the occupant of **Vehicle B** had more control of the vehicle."

Alex: "Really? Of all the ways things could have gone differently, that doesn't seem like the one that's worth thinking about."

Please rate the extent to which you agree with **Sam** below:



capability

How much do you agree: **Vehicle B** should have been able to avoid this accident.

Completely	Neither agree	Completely
disagree	nor disagree	agree

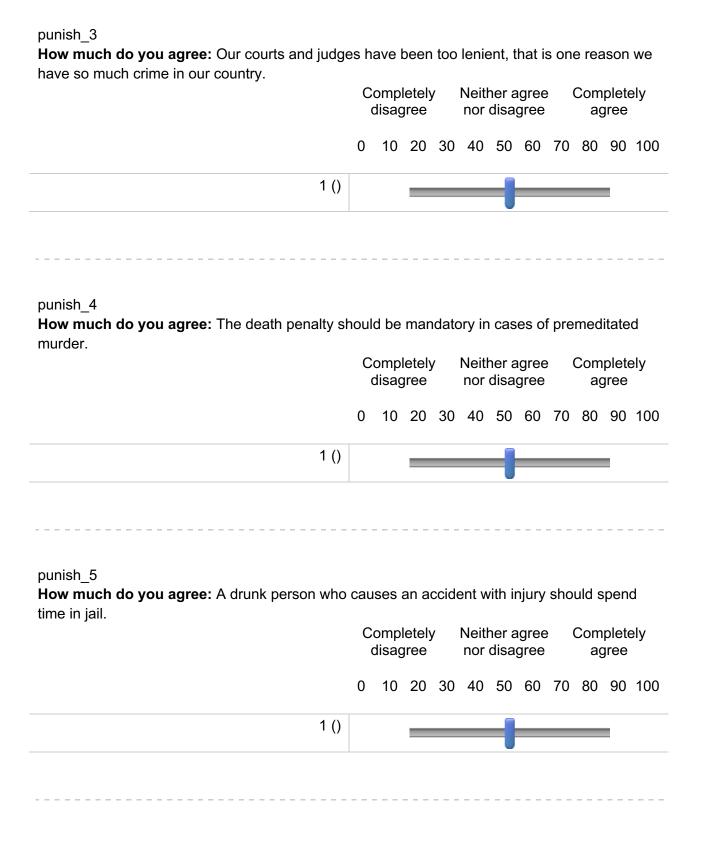
0 10 20 30 40 50 60 70 80 90 100

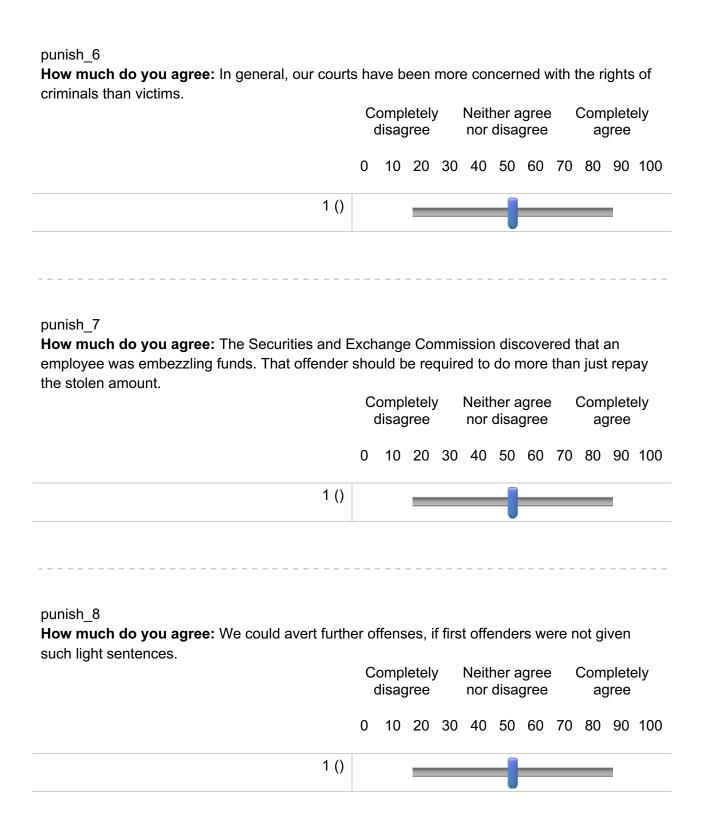
1 ()	
Page Break ———————	

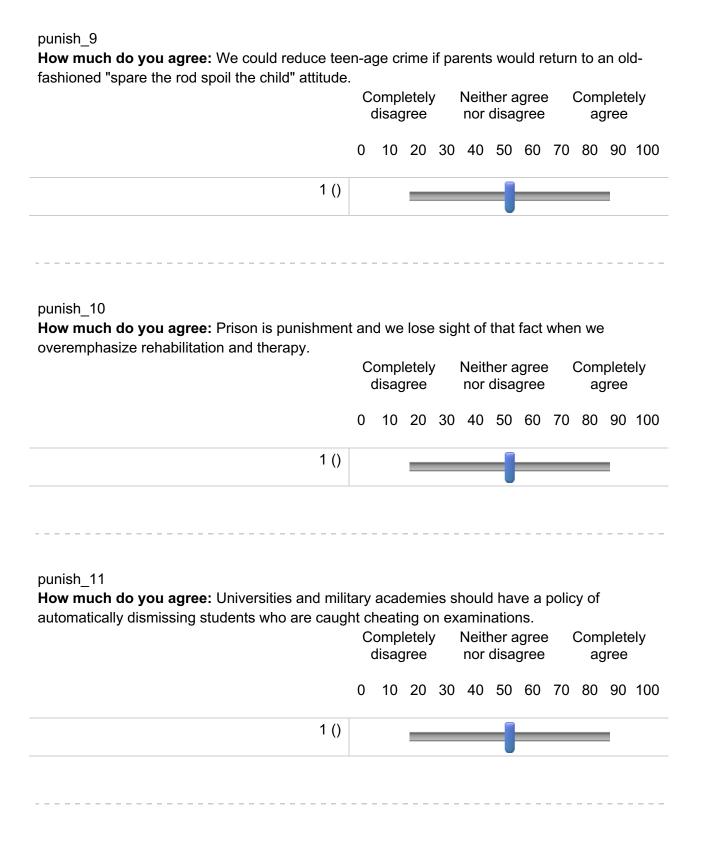
fault

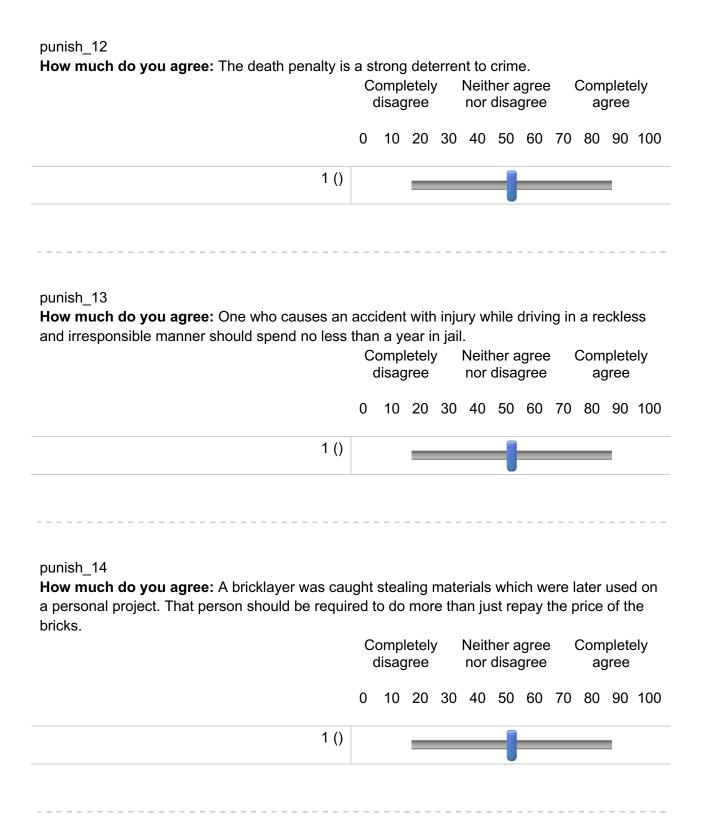
How much do you agree: Vehicle B should avo	oid accidents wh Completely disagree				en it is not nece Neither agree nor disagree				essarily at fault. Completely agree			
	0	10	20	30	40	50	60	70	80	90	100	
1 ()												
End of Block: questions_2												
Start of Block: AV_superhuman												
superhuman Please rate the extent to which you Autonomous robocars should be more aware, m drivers.	ore	atte omp disaç	ntive letely gree	and	l mor Neitl nor	re rea	activ igree gree	e tha	an hu Com ag	plete	ely	
	0	10	20	30	40	50	60	70	80	90	100	
1 ()												
End of Block: AV_superhuman												
Start of Block: comprehension												
 Comp1 Which of the following was true about Vehicle B was a Robocar, which means than a human being. (1) Vehicle B was a large truck (2) 				iven	by a	ı con	npute	er alç	gorith	nm ra	ather	

comp_accident Which of the following was tru	e about the video?
O Vehicle A made a left turn (1)	
O Vehicle B made a left turn (2)	
End of Block: comprehension	
Start of Block: scales	
Q117 Please rate the extent to which you agree	with the following statements.
punish_1 How much do you agree: In general, I believe tooth for a tooth."	in the law of the talon "an eye for an eye, and a Completely Neither agree Completely disagree nor disagree agree 0 10 20 30 40 50 60 70 80 90 100
1 ()	
punish_2 How much do you agree: When crimes are prepunishment than rehabilitation.	emeditated, we should think more in terms of Completely Neither agree Completely disagree nor disagree agree 0 10 20 30 40 50 60 70 80 90 100
1 ()	











gender What is your gender?
○ Male (1)
○ Female (2)
O Prefer not to disclose (3)
Other (please specify) (4)
age What is your age (in years)?
edu What is the highest level of education you have completed?
O High School or Equivalent (1)
O Vocational/Technical School (2 year) (2)
○ Some College (3)
○ College Graduate (4 year) (4)
O Masters Degree (MS) (5)
O Doctoral Degree (PhD) (6)
O Professional Degree (MD, JD, etc.) (7)
Other (please specify) (8)
End of Block: demographics

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