

## **informed 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 \$0.50 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.

## **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.

Do you consent

- Yes
- No

### **attention\_checks**

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

- John
- Paul
- Neither John nor Paul
- Both John and Paul

### **What color is grass?**

The fresh, uncut grass, not leaves or hay. Please make sure to select purple, so that we know you're paying attention.

- Green
- Purple

## **failed\_attention\_check**

You failed one of the attention checks. Thanks for considering the surveys!

## **trust\_scale**

This study is split into two sections. In Section 1, you will answer a series of questions about your trust in fully autonomous self-driving cars.

### **Section 1**

Please answer the following questions intended to measure your trust in **fully autonomous self-driving cars, which are cars that are driven by computer algorithms, and whose human occupants have no control of the vehicle.**

Please rate the extent to which you agree with the following statements.

**How much do you agree:** I would be willing to let a self-driving car make important driving decisions without my involvement.



**How much do you agree:** If I were unable to monitor my driving activities, I would be willing to trust a self-driving car to get the job done right.



**How much do you agree:** I trust a self-driving car to do things I can't do myself.



**How much do you agree:** I trust a self-driving car to do things my vehicle can't do itself.



**How much do you agree:** I generally do not trust a self-driving car.



## av\_scenario

In Section 2 of this study, you will evaluate blame and negligence in a traffic accident scenario.

## Section 2

On the next page, you will read an excerpt from a news article describing a traffic scenario in which Vehicle A hits a pedestrian, sending the pedestrian into the path of another vehicle, Vehicle B.

In this scenario, **Vehicle B is a fully autonomous self-driving car, which means that it is driven by a computer algorithm. There was no human inside Vehicle B.**

You will next see an excerpt from a news article describing this crash, and then answer some questions.

### Part 1

*Vehicle B is a fully autonomous self-driving car.*

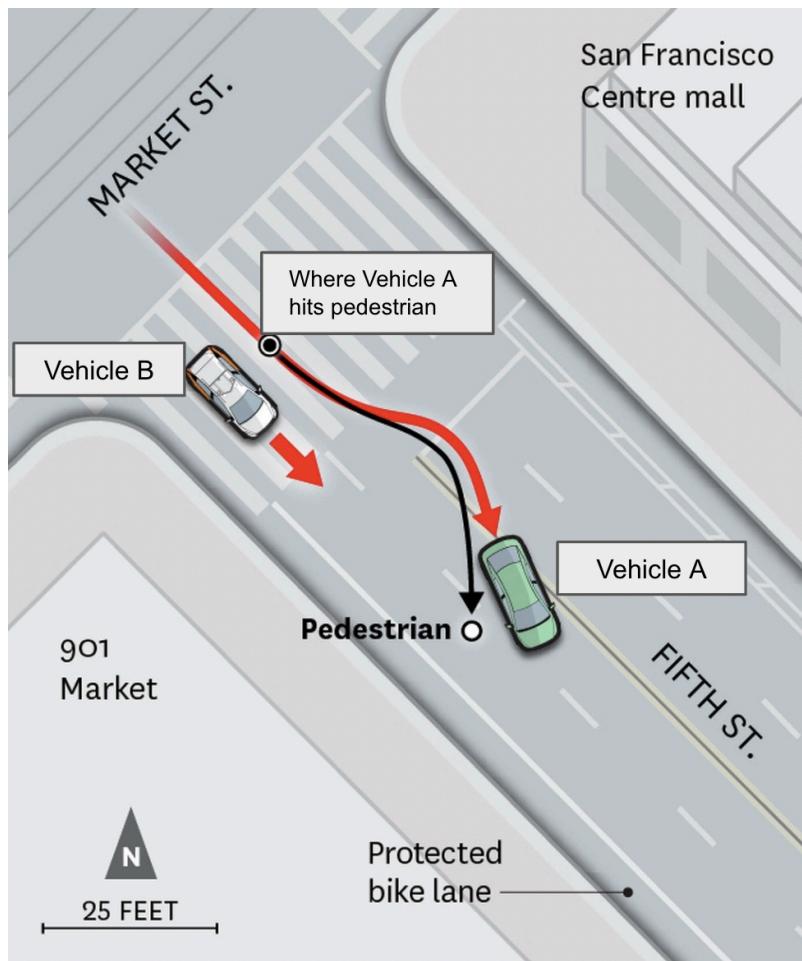


Both **Vehicle A** and **Vehicle B** wait for the green light. The light turns green, and both vehicles advance shortly thereafter.

The pedestrian steps into the crosswalk.

## Part 2

*Vehicle B is a fully autonomous self-driving car.*



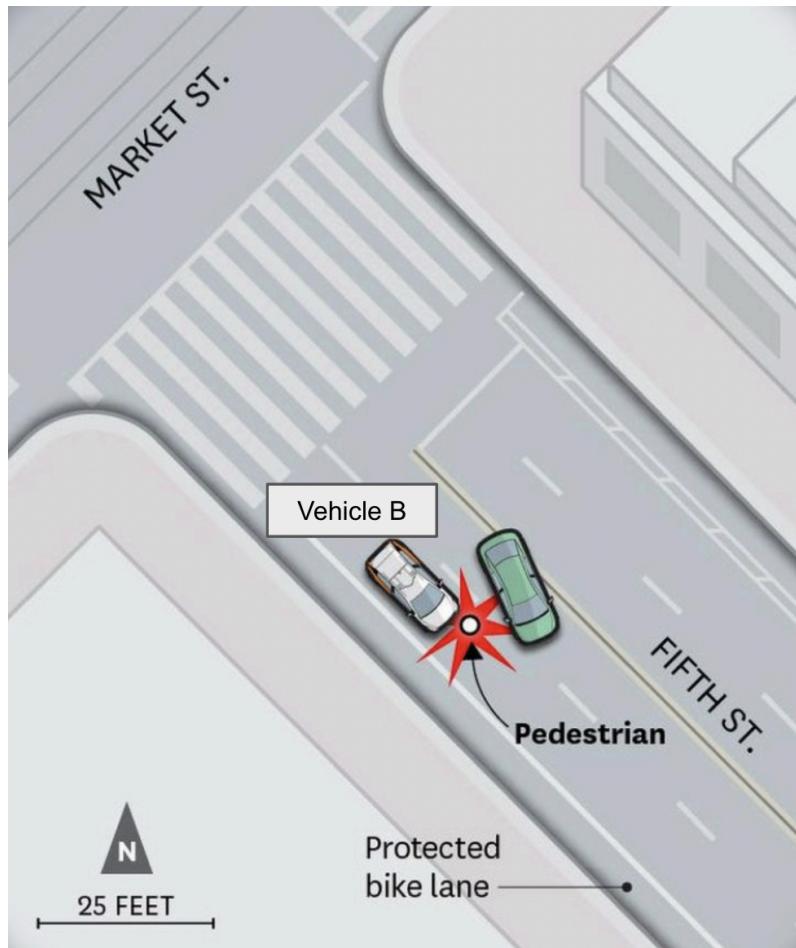
**Vehicle A** strikes the pedestrian at a speed of 21.7 mph.

**Vehicle A** appears to hit the pedestrian without applying the brakes.

The impact of the crash flings the pedestrian into the path of **Vehicle B**.

## Part 3

**Vehicle B** is a fully autonomous self-driving car.



The pedestrian lands in **Vehicle B**'s travel lane.

**Vehicle B**, which is traveling at 19.1 mph, begins to brake, but still strikes the pedestrian.

## **questions\_1\_AV**

Now, please answer the questions below about the scenario you just read. When answering the questions, please refer to the labels on the image below. **Recall that**

# Vehicle B is a fully autonomous self-driving car, which means that it is driven by a computer algorithm.

## There was no human inside Vehicle B.



**Vehicle B is a fully autonomous self-driving car.**

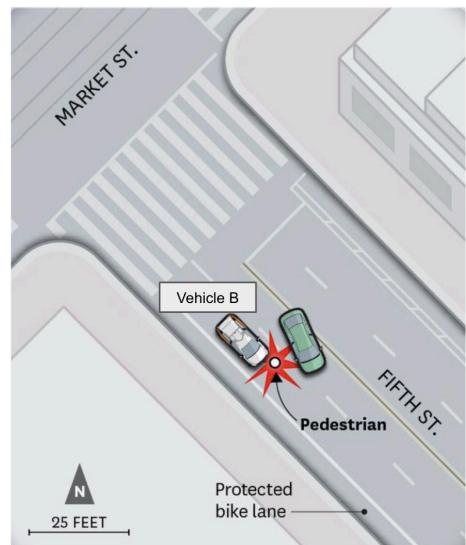
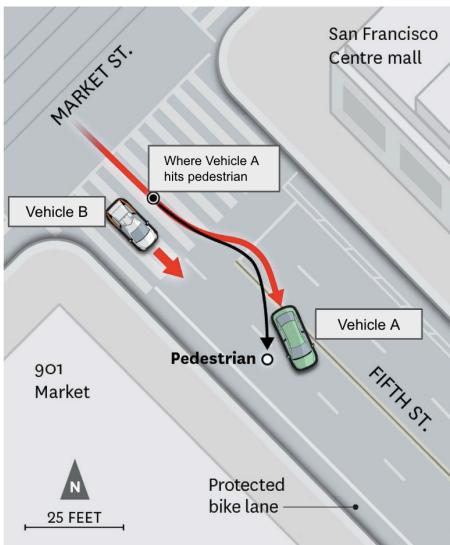


# Please rate the extent to which you agree with the following statement (0=完全ly disagree, 100=完全ly agree):

How much do you agree: It would be reasonable to sue the **driver of Vehicle A** to cover the costs of the serious injuries sustained by the pedestrian.




**Vehicle B is a fully autonomous self-driving car.**



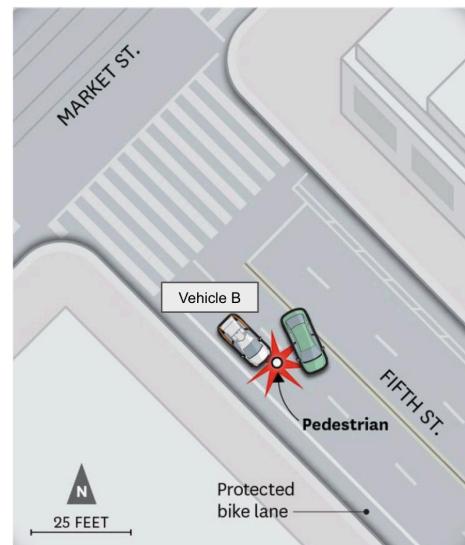
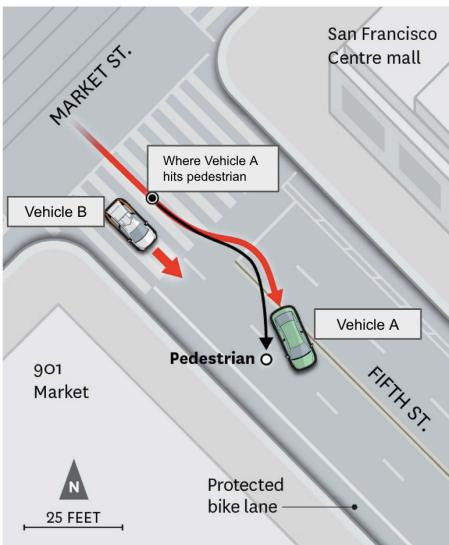
# Please rate the extent to which you agree with the following statement (0=完全ly disagree, 100=完全ly agree):

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

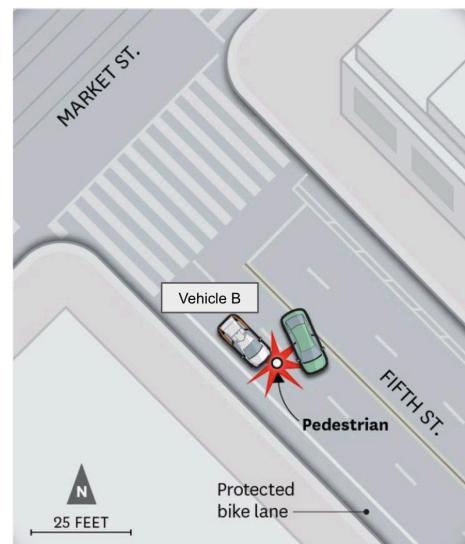


## questions\_2\_AV

Please answer one more set of questions about the scenario below. Again, please refer to the following image when answering the questions. **Recall that Vehicle B is a fully autonomous self-driving car, which means that it is driven by a computer algorithm. There was no human inside Vehicle B.**



**Vehicle B is a fully autonomous self-driving car.**



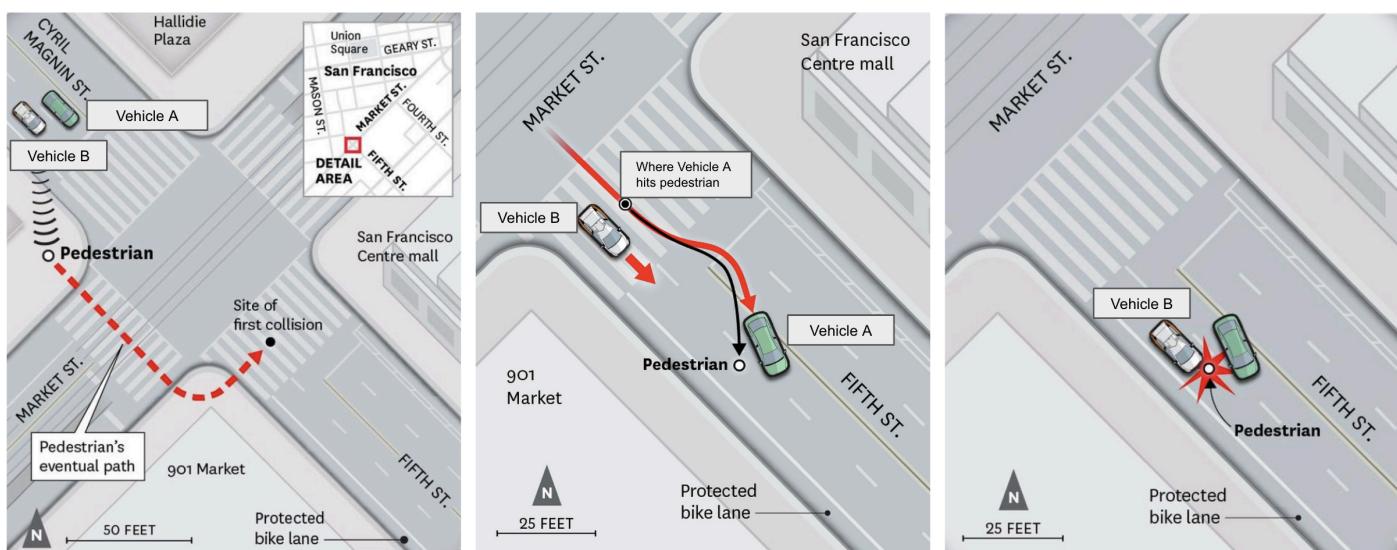
**Please rate the extent to which you agree with the following statement (0=completely disagree, 100=completely agree):**

How much do you agree: When it comes to thinking about

how the injury could have been avoided, it is relevant to consider what **Vehicle A** could have done differently.



**Vehicle B is a fully autonomous self-driving car.**



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

How much do you agree: When it comes to thinking about

how the injury could have been avoided, it is relevant to consider what **Vehicle B** could have done differently.



**Vehicle B is a fully autonomous self-driving car.**



**Please rate the extent to which you agree with the following statement (0=完全不同意, 100=完全同意):**

How much do you agree: **Vehicle B** could have done more to avoid the accident.



## hdv\_scenario

In Section 2 of this study, you will evaluate blame and negligence in a traffic accident scenario.

### Section 2

On the next page, you will read an excerpt from a news article describing a traffic scenario in which Vehicle A hits a pedestrian, sending the pedestrian into the path of another vehicle, Vehicle B. **Both cars are fully driven by humans.**

You will next see an excerpt from a news article describing this crash, and then answer some questions.

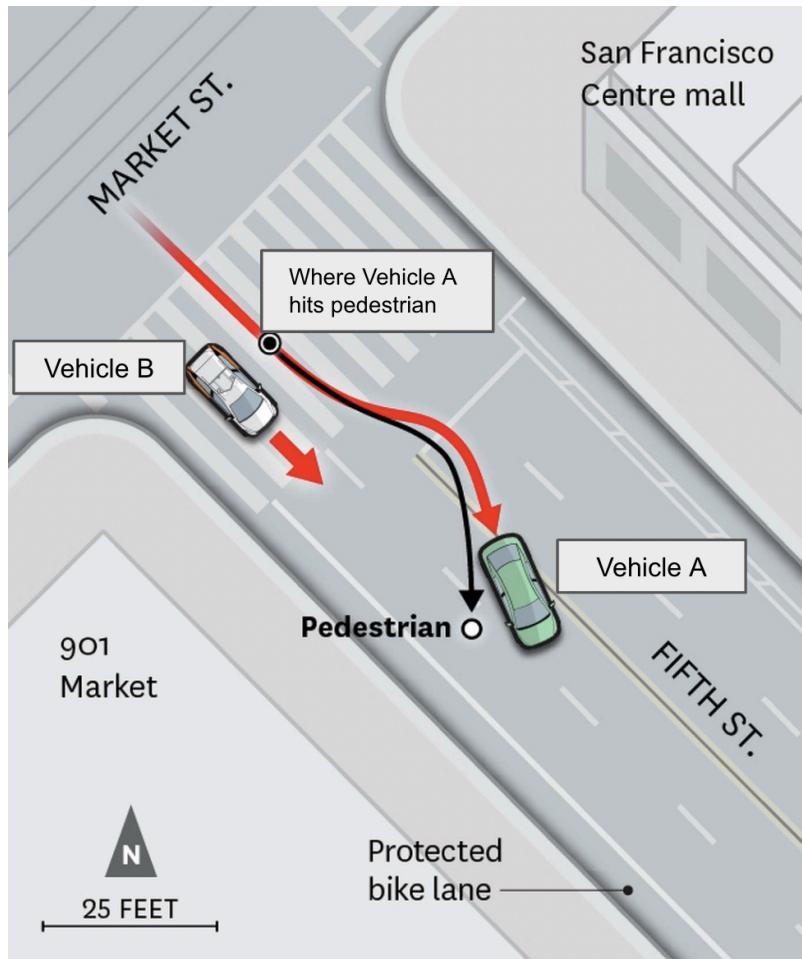
### Part 1



Both **Vehicle A** and **Vehicle B** wait for the green light. The light turns green, and both vehicles advance shortly thereafter.

The pedestrian steps into the crosswalk.

## Part 2

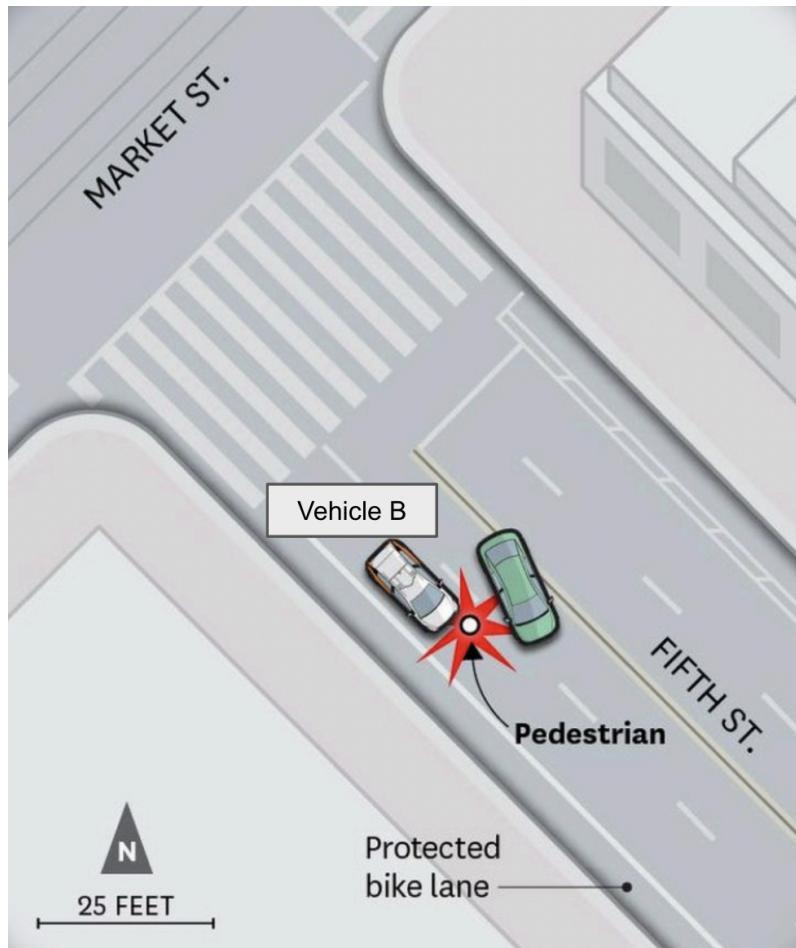


**Vehicle A** strikes the pedestrian at a speed of 21.7 mph.

**Vehicle A** appears to hit the pedestrian without applying the brakes.

The impact of the crash flings the pedestrian into the path of **Vehicle B**.

## Part 3



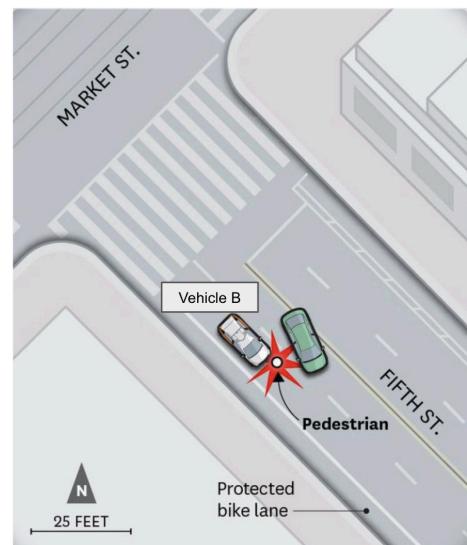
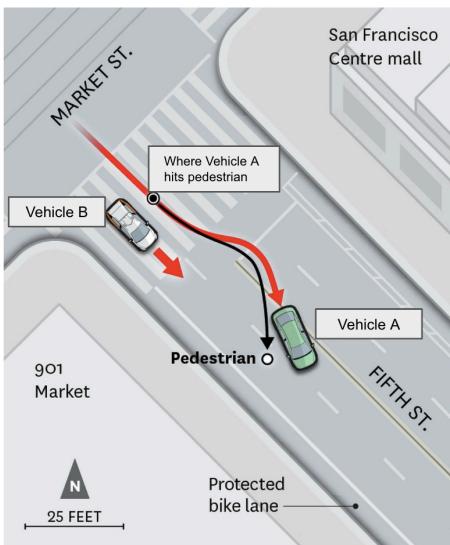
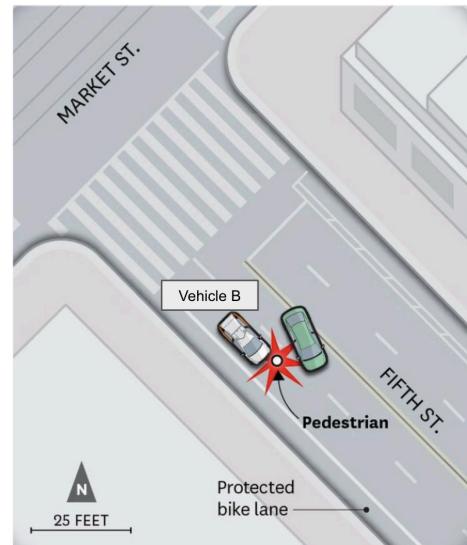
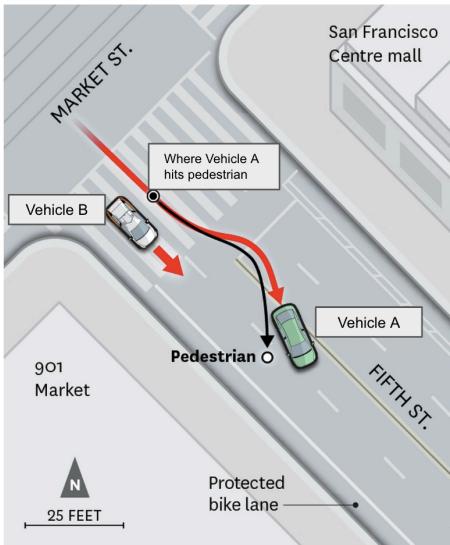
The pedestrian lands in **Vehicle B**'s travel lane.

**Vehicle B**, which is traveling at 19.1 mph, begins to brake, but still strikes the pedestrian.

## questions\_1

Now, please answer the questions below about the scenario you just read. When answering the questions,

please refer to the labels on the image below:



**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** to cover the costs of the serious injuries sustained by the pedestrian.



**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 pedestrian.





**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 B** for the serious injuries sustained by pedestrian.



## questions\_2

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





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

How much do you agree: When it comes to thinking about how the injury could have been avoided, it is relevant to consider what **Vehicle A** could have done differently.





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

How much do you agree: When it comes to thinking about how the injury could have been avoided, it is relevant to consider what **Vehicle B** could have done differently.

Completely disagree	Neither agree nor disagree	Completely agree
------------------------	-------------------------------	---------------------

0      10      20      30      40      50      60      70      80      90      100



**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** could have done more to avoid the accident.




## comprehension

**Which of the following was true about Vehicle B in the collision scenario of Section 2?**

- Vehicle B was a fully autonomous self-driving car.
- Vehicle B was a regular vehicle (driven by a human being).



## Which of the following was true about the scenario?

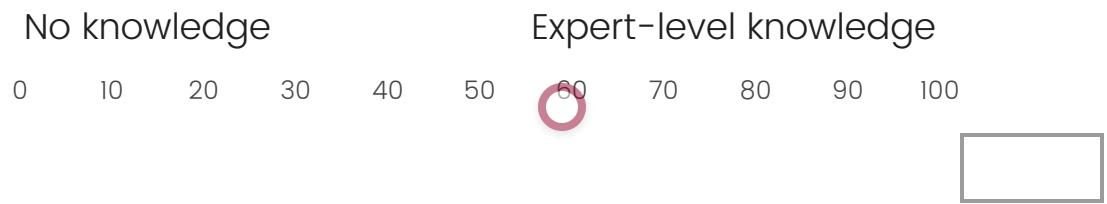
- Vehicle A hit the pedestrian first
- Vehicle B hit the pedestrian first

## demographics

## When you read the scenario, did you recognize that it was describing a real incident involving the company Cruise?

- Yes
- No

## Before this survey, how familiar were you with autonomous vehicle accident prevention algorithms?



## What is your gender?

- Male
- Female
- Prefer not to disclose
- Other (please specify)

## What is your age (in years)?

## What is the highest level of education you have completed?

- High School or Equivalent
- Vocational/Technical School (2 year)
- Some College
- College Graduate (4 year)
- Masters Degree (MS)
- Doctoral Degree (PhD)
- Professional Degree (MD, JD, etc.)
- Other (please specify)

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