

Driving Behaviors Survey

Purpose of Survey: The purpose of this survey is to gain a better understanding of driving behaviors amongst the population and how these driving behaviors can be modeled by self driving cars.

Instructions: This survey contains 57 questions. Please reflect on each question and answer to the best of your knowledge. There are demographic questions at the beginning of this survey. Please note that the information is submitted anonymously and your answers are in no way linked to you.

Thank you for participating!

* Required

Demographic Information

These questions help gather demographic data for this survey.

1. 1. What country do you currently reside in? *

2. 2. What country have you driven the most in? *

3. 3. What is your age? *

4. 4. What is your gender? *

Mark only one oval.

☐ Male

☐ Female

5. 5. What is your ethnicity origin/race? *

Mark only one oval.

- ☐ White
- ☐ Black/African American
- ☐ Hispanic/Latino
- ☐ Asian

6. 6. What is your education? *

Mark only one oval.

- ☐ None
- ☐ High School/College Degree
- ☐ Bachelor's Degree
- ☐ Master's Degree
- ☐ PhD/Postdoctoral
- ☐ MD/Other Professional Degrees

7. 7. What is your employment status? *

Mark only one oval.

- ☐ Employed
- ☐ Unemployed
- ☐ Self-employed
- ☐ Household
- ☐ Unable to work
- ☐ Retired

8. 8. What is your income range? *

Mark only one oval.

- ☐ No income
- ☐ \$0 < Income <= \$25,000
- ☐ \$25,000 < Income <= \$50,000
- ☐ \$50,000 < Income <= \$100,000
- ☐ \$100,000 < Income <= \$200,000
- ☐ \$200,000 < Income

9. 9. What is your marital status *

Mark only one oval.

- ☐ Single, never married
- ☐ Married
- ☐ Domestic Partner
- ☐ Separated
- ☐ Divorced
- ☐ Widowed

Questions about your driving
behavior on NON-HIGHWAY
roads

These questions ask about your driving
behavior on NON-HIGHWAY type roads.

10. 10. Which best describes your driving behavior most of the time in terms of speed *
while driving on: NON-HIGHWAY ROADS

Mark only one oval.

- ☐ I typically drive under the speed limit (more than 5 mph UNDER the speed limit).
- ☐ I typically drive the speed limit (within plus or minus 5 mph).
- ☐ I typically drive over the speed limit (more than 5 mph OVER the speed limit).

11. 11. Which best describes your behavior most of the time when it comes to signaling lane changes while driving on: NON-HIGHWAY ROADS *

Mark only one oval.

- ☐ I signal EVERY move (You use your signal 100% of the time)
- ☐ I signal my moves often (You use your signal 75% of the time)
- ☐ I sometimes signal a move: (You use your signal 50% of the time)
- ☐ I rarely signal a move: (You use your signal 25% of the time or less)

12. 12. Which best describes your lane changing behavior when driving on: NON-HIGHWAY ROADS *

Mark only one oval.

- ☐ I change lanes only if I have to.
- ☐ I occasionally change lanes to overtake an extremely slow vehicle.
- ☐ I change lanes frequently to be in the fastest possible lane.

13. 13. If you want to change lanes on a NON-HIGHWAY road and move to a lane that is 2 or more lanes away *

Mark only one oval.

- ☐ You plan ahead and change lanes one lane at a time as you see an opening. You rarely change multiple lanes at once.
- ☐ Sometimes you change multiple lanes at once and sometimes you plan ahead and change lanes one lane at a time.
- ☐ You frequently change all lanes at once. (This could mean changing 2 or more lanes at once)

14. 14. How would you describe the way you accelerate and decelerate while driving on: NON-HIGHWAY ROADS *

Mark only one oval.

- ☐ You typically accelerate and decelerate slowly and it takes you a while to get up to speed. You avoid having to make a short stop.
- ☐ You typically accelerate and decelerate at a moderate pace and get up to speed relatively quickly. You rarely stop short and passengers do not feel jolted forward or backward when you drive.
- ☐ You typically accelerate and decelerate very quickly and get up to speed rapidly, but you may feel jolted forward or back frequently while driving.

15. 15. How often do you pass other vehicles when driving on: NON-HIGHWAY ROADS *

Mark only one oval.

- ☐ Rarely (I only pass vehicles when I absolutely have to)
- ☐ Sometimes (I pass other vehicles in only a few situations)
- ☐ Often (I pass other vehicles in a variety of different situations)
- ☐ Always (No matter the situation, I am passing vehicles whenever I get the chance)

16. 16. What distance do you usually keep from the car in front of you, when driving on: NON-HIGHWAY ROADS *

Mark only one oval.



☐ Long Distance



☐ Medium Distance



☐ Short Distance

17. 17. Which best describes your braking behavior when driving on: NON-HIGHWAY ROADS *

Mark only one oval.

- ☐ Sometimes: I brake when necessary, but I try to keep the right distance from the cars around me so that I don't brake every time the traffic slows.
- ☐ Rarely: I only brake if I have to, for example when there is traffic or there are emergency vehicles. If I can avoid braking by changing lanes I will change lanes.
- ☐ Frequently : Every time I see brake lights, something in the road, or anytime I perceive risk I brake.

Questions about your driving
behavior on HIGHWAY roads

These questions ask about your driving
behavior on HIGHWAY type roads.

18. 18. Which best describes your driving behavior most of the time in terms of speed *
while driving on: THE HIGHWAY

Mark only one oval.

- ☐ I typically drive under the speed limit (more than 5 mph UNDER the speed limit).
- ☐ I typically drive the speed limit (within plus or minus 5 mph).
- ☐ I typically drive over the speed limit (more than 5 mph OVER the speed limit).

19. 19. Which best describes your behavior most of the time when it comes to *
signaling lane changes while driving on: THE HIGHWAY

Mark only one oval.

- ☐ I signal EVERY move (You use your signal 100% of the time)
- ☐ I signal my moves often (You use your signal 75% of the time)
- ☐ I sometimes signal a move: (You use your signal 50% of the time)
- ☐ I rarely signal a move: (You use your signal 25% of the time or less)

20. 20. Which best describes your lane changing behavior when driving on: THE *
HIGHWAY

Mark only one oval.

- ☐ I change lanes only if I have to.
- ☐ I occasionally change lanes to overtake an extremely slow vehicle.
- ☐ I change lanes frequently to be in the fastest possible lane.

21. 21. If you want to change lanes on the HIGHWAY and move to a lane that is 2 or more lanes away *

Mark only one oval.

- ☐ You plan ahead and change lanes one lane at a time as you see an opening. You rarely change multiple lanes at once.
- ☐ Sometimes you change multiple lanes at once and sometimes you plan ahead and change lanes one lane at a time.
- ☐ You frequently change all lanes at once. (This could mean changing 2 or more lanes at once)

22. 22. How would you describe the way you accelerate and decelerate while driving on: THE HIGHWAY *

Mark only one oval.

- ☐ You typically accelerate and decelerate slowly and it takes you a while to get up to speed. You avoid having to make short stops.
- ☐ You typically accelerate and decelerate at a moderate pace and get up to speed relatively quickly. You rarely stop short and passengers do not feel jolted forward or backward when you drive.
- ☐ You typically accelerate and decelerate very quickly and get up to speed rapidly, but you may feel jolted forward or back frequently while driving.

23. 23. How often do you pass other vehicles when driving on: THE HIGHWAY *

Mark only one oval.

- ☐ Rarely (I only pass vehicles when I absolutely have to)
- ☐ Sometimes (I pass other vehicles in only a few situations)
- ☐ Often (I pass other vehicles in a variety of different situations)
- ☐ Always (No matter the situation, I am passing vehicles whenever I get the chance)

24. 24. What distance do you usually keep from the car in front of you, when driving on: THE HIGHWAY *

Mark only one oval.



☐ Long Distance



☐ Medium Distance



☐ Short Distance

25. 25. Which best describes your braking behavior when driving on: THE HIGHWAY *

Mark only one oval.

- ☐ Sometimes: I brake when necessary, but I try to keep the right distance from the cars around me so that I don't brake every time the traffic slows.
- ☐ Rarely: I only brake if I have to, for example when there is traffic or there are emergency vehicles. If I can avoid braking by changing lanes I will change lanes.
- ☐ Frequently : Every time I see brake lights, something in the road, or anytime I perceive risk I brake.

26. 26. When driving on a HIGHWAY with more than 2 lanes, what lane is your preference?

Mark only one oval.

- ☐ Right lane
- ☐ Middle lanes
- ☐ Left lane (fast lane)

General Driving
Behaviors

These questions relate to general driving behaviors in various circumstances.

27. 27. You need to change your lane to get to the highway, but the spot you were looking to move to is not large enough. What do you do? *

Mark only one oval.

- ☐ Slow down and try to find another spot behind.
- ☐ Maintain your speed eventually something will open up. I make plans in advance when I know my exit is near so I have plenty of time to make the lane change.
- ☐ Speed up and try to find another spot ahead.
- ☐ I am not sure

28. 28. What best describes your driving behavior when making a turn? *

Mark only one oval.

- ☐ I brake to slow the vehicle down before turning, and since my speed is slow enough I do not need to brake while making the turn or if I do it is very little.
- ☐ I maintain my current speed and I press the brake while making the turn.
- ☐ I usually speed up and then make the turn and I usually have to brake while making the turn.
- ☐ I usually drive at a moderate to fast speed and I don't brake while making the turn unless I have to.

29. 29. What best describes your driving behavior when driving on a winding road? *

Mark only one oval.

- ☐ I tend to reduce my speed, so that I will not have to constantly press the brake when driving around curves in the road.
- ☐ I maintain my speed and if I need to slow down for a curve in the road I will.
- ☐ I maintain my speed and I don't slow down for a curve in the road. Passengers may feel jolted sideways.

30. 30. Which type of parking do you find the most challenging? *

Mark only one oval.

- ☐ Angled parking
- ☐ Perpendicular parking
- ☐ Parallel parking
- ☐ Parking on an incline

31. 31. What less than perfect weather situation do you drive in most often? *

Mark only one oval.

- ☐ Rain
- ☐ Snow
- ☐ Ice
- ☐ Fog

32. 32. When driving in that less than perfect weather condition, what happens to your speed? *

Mark only one oval.

- ☐ I will decrease my speed until the weather condition is gone.
- ☐ Overall, I will decrease my speed, but there may be moments when I speed up temporally.
- ☐ I go as fast as I normally go as long as the traffic allows.

33. 33. When driving in that less than perfect weather condition, what happens to your signaling behavior? *

Mark only one oval.

- ☐ I tend to signal more than usual. I may use flashers or even hand signaling.
- ☐ I tend to signal less because I am so focused on driving through the bad weather.
- ☐ My signaling behavior remains the same.

34. 34. How would you describe your lane changing behavior when driving in that less than perfect weather condition? *

Mark only one oval.

- ☐ I change lanes only if I have to.
- ☐ I occasionally change lanes to overtake an extremely slow vehicle.
- ☐ I change lanes frequently to be in the fastest possible lane.

35. 35. When driving in that less than perfect weather condition, what distance do you prefer to keep from the car in front of you? *

Mark only one oval.



☐ Long Distance



☐ Medium Distance



☐ Short Distance

36. 36. Which best describes your driving behavior most of the time in terms of speed while driving at night? *

Mark only one oval.

- ☐ I usually drive slower at night (5 mph or more UNDER the speed limit)
- ☐ I usually drive the speed limit at night (5 mph plus or minus the speed limit)
- ☐ I usually drive faster at night (5 mph or more ABOVE the speed limit)

37. 37. Which best describes your behavior most of the time when it comes to signaling lane changes while driving at night: *

Mark only one oval.

- ☐ I signal EVERY move (You use your signal 100% of the time)
- ☐ I signal my moves often (You use your signal 75% of the time)
- ☐ I sometimes signal a move: (You use your signal 50% of the time)
- ☐ I rarely signal a move: (You use your signal 25% of the time or less)

38. 38. Which best describes your lane changing behavior when driving at night? *

Mark only one oval.

- ☐ I change lanes only if I have to.
- ☐ I occasionally change lanes to overtake an extremely slow vehicle.
- ☐ I change lanes frequently to be in the fastest possible lane.

Questions involving trust of Self-Driving Cars

Questions involving general trust of self-driving cars and AI

39. 39. What is your trust level to utilize Artificial Intelligence or Fully Autonomous Technologies? *

Mark only one oval.

- ☐ Distrust
- ☐ Somewhat Distrust
- ☐ Neutral
- ☐ Somewhat Trust
- ☐ Trust

40. 40. What is your trust level to utilize a Self-Driving car when this technology becomes available? *

Mark only one oval.

- ☐ Distrust
- ☐ Somewhat Distrust
- ☐ Neutral
- ☐ Somewhat Trust
- ☐ Trust

41. 41. What is your trust level that self-driving cars will keep your own safety as it's primary objective? *

Mark only one oval.

- ☐ Distrust
- ☐ Somewhat Distrust
- ☐ Neutral
- ☐ Somewhat Trust
- ☐ Trust

42. 42. What is your trust level that self-driving cars will be able to navigate in construction zones that include temporary detours that would ordinarily go against the flow of traffic? *

Mark only one oval.

- ☐ Distrust
- ☐ Somewhat Distrust
- ☐ Neutral
- ☐ Somewhat Trust
- ☐ Trust

43. 43. What is your trust level that self-driving cars will be able to navigate in crowded pedestrian areas? *

Mark only one oval.

- ☐ Distrust
- ☐ Somewhat Distrust
- ☐ Neutral
- ☐ Somewhat Trust
- ☐ Trust

44. 44. What is your trust level that self-driving cars will successfully get you to the EXACT destination you requested? *

Mark only one oval.

- ☐ Distrust
- ☐ Somewhat Distrust
- ☐ Neutral
- ☐ Somewhat Trust
- ☐ Trust

45. 45. What is your trust level in the ability of self-driving cars to navigate safely with no-person in the vehicle. *

Mark only one oval.

- ☐ Distrust
- ☐ Somewhat Distrust
- ☐ Neutral
- ☐ Somewhat Trust
- ☐ Trust

Self Driving Car Behavior when Driving on Non- Highway Roads

These questions relate to how you expect a self driving car to behave on NON-HIGHWAY type roads

46. 46. If you were in a self driving car, what tasks do you feel comfortable handing over to the car to perform autonomously? Please rank your trust level when it comes to the following driving tasks being performed by a self-driving car when driving on: NON-HIGHWAY ROADS *

Mark only one oval per row.

	Distrust	Somewhat Distrust	Neutral	Somewhat Trust	Trust
The speed of the car	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Changing Lanes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Signalling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Driving in hazardous weather conditions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Braking	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Maintaining a certain distance from the cars around you	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Parking	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Driving at night	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

47. 47. If you are traveling in a self-driving car, and the car is in control of the speed, what range speed would you feel most comfortable with when driving on: NON-HIGHWAY ROADS *

Mark only one oval.

- ☐ I prefer the self driving car to maintain a speed of 5 mph or more UNDER the speed limit.
- ☐ I prefer the self driving car to maintain a speed within plus or minus 5 mph of the speed limit.
- ☐ I prefer the self driving car to maintain a speed of 5 mph or more OVER the speed limit.

48. 48. If you are traveling in a self-driving car, on NON-HIGHWAY ROADS, you expect the car to change lanes: *

Mark only one oval.

- ☐ Only if absolutely necessary
- ☐ Occasionally if it needs to overtake an extremely slow vehicle.
- ☐ Frequently, I expect the car to keep me in the fastest possible lane at all times.

49. 49. If you are traveling in a self-driving car, on NON-HIGHWAY ROADS ,your preference for the way it accelerates and decelerate would be: *

Mark only one oval.

- ☐ Slowly: The car may take a while to get up to speed.The car would avoid having to make a short stop.
- ☐ Smooth: as long as the ride is smooth and safe, the car can accelerate/decelerate quickly.
- ☐ Fast: the car should get up to speed rapidly and get to the destination as fast as possible.

50. 50. If you are traveling in a self-driving car, how often would you expect the car to *
pass other vehicles when driving on: NON-HIGHWAY ROADS

Mark only one oval.

- ☐ Rarely: only if the car absolutely has to.
- ☐ Sometimes: I want to get to my destination quickly, but I want the ride to be smooth and steady.
- ☐ Always: I want to be on the quickest path to my destination.

51. 51. If you are traveling in a self-driving car, how often would you want the car to *
brake when driving on: NON-HIGHWAY ROADS

Mark only one oval.

- ☐ Frequently: If I see brake lights, something in the road, or any perceived risk, I expect the car to react and that may mean braking a lot.
- ☐ Sometimes: The car should brake when necessary. The car should keep the right distance from the cars around it so that the ride is smooth.
- ☐ Rarely: The car should brake only when it absolutely has to like if there is traffic or an emergency vehicle. If the car can avoid braking by changing lanes I expect it to change lanes.

Self Driving Car Behavior
when Driving on Highway
Roads

These questions relate to how you expect a self
driving car to behave on HIGHWAY type roads

52. 52. If you were in a self driving car, what tasks do you feel comfortable handing over to the car to perform autonomously? Please rank your trust level when it comes to the following driving tasks being performed by a self-driving car when driving on: HIGHWAY ROADS *

Mark only one oval per row.

	Distrust	Somewhat Distrust	Neutral	Somewhat Trust	Trust
The speed of the car	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Changing Lanes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Signalling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Driving in hazardous weather conditions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Braking	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Maintaining a certain distance from the cars around you	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Parking	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Driving at night	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

53. 53. If you are traveling in a self-driving car, and the car is in control of the speed, what range speed would you feel most comfortable with when driving on: HIGHWAY ROADS *

Mark only one oval.

- ☐ I prefer the self driving car to maintain a speed of 5 mph or more UNDER the speed limit.
- ☐ I prefer the self driving car to maintain a speed within plus or minus 5 mph of the speed limit.
- ☐ I prefer the self driving car to maintain a speed of 5 mph or more OVER the speed limit.

54. 54. If you are traveling in a self-driving car, on HIGHWAY ROADS, you expect the car to change lanes: *

Mark only one oval.

- ☐ Only if absolutely necessary
- ☐ Occasionally if it needs to overtake an extremely slow vehicle.
- ☐ Frequently, I expect the car to keep me in the fastest possible lane at all times.

55. 55. If you are traveling in a self-driving car, on HIGHWAY ROADS ,your preference for the way it accelerates and decelerate would be: *

Mark only one oval.

- ☐ Slowly: The car may take a while to get up to speed.The car would avoid having to make a short stop.
- ☐ Smooth: as long as the ride is smooth and safe, the car can accelerate/decelerate quickly.
- ☐ Fast: the car should get up to speed rapidly and get to the destination as fast as possible.

56. 56. If you are traveling in a self-driving car, how often would you expect the car to *
pass other vehicles when driving on: HIGHWAY ROADS

Mark only one oval.

- ☐ Rarely: only if the car absolutely has to.
- ☐ Sometimes: I want to get to my destination quickly, but I want the ride to be smooth and steady.
- ☐ Always: I want to be on the quickest path to my destination.

57. 57. If you are traveling in a self-driving car, how often would you want the car to *
brake when driving on: HIGHWAY ROADS

Mark only one oval.

- ☐ Frequently: If I see brake lights, something in the road, or any perceived risk, I expect the car to react and that may mean braking a lot.
- ☐ Smooth: as long as the ride is smooth and safe, the car can accelerate/decelerate quickly.
- ☐ Fast: the car should get up to speed rapidly and get to the destination as fast as possible.

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