

I'm not robot

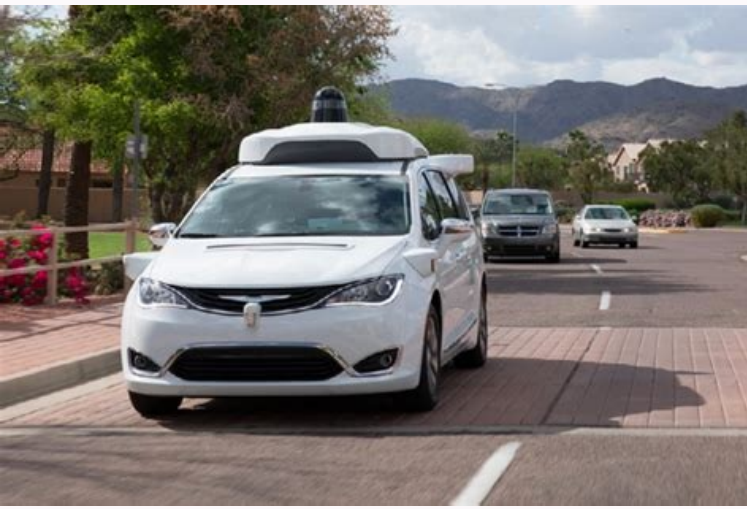
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What is driverless car?

- ❖ Integrates many of the google application to run efficiently.
- ❖ It is operated by automatic pilote system
- ❖ It works with google map to provide minute information about the road
- ❖ Hardware sensors to provide information about real time environment condition.
- ❖ Artificial intelligence, real time decisions are taken with the help of this software
- ❖ Google map uses GPS



Google driving to be driverless

Google's modified Toyota Prius uses an array of sensors to navigate public roads without a human driver. Other components, not shown, include a GPS receiver and an inertial motion sensor.

Laser-guided mapping
A rotating sensor with lasers called a LIDAR on the roof scans more than 200 feet in all directions to generate a precise three-dimensional map of the car's surroundings.

Position estimator
A sensor mounted on the left rear wheel measures small movements made by the car and helps to accurately locate its position on the map.

Video camera
A camera mounted near the rear-view mirror detects traffic lights and helps the car's onboard computers recognize moving obstacles—such as pedestrians and bicyclists.

Radar
Four standard automotive radar sensors, three in front and one in the rear, help determine the positions of distant objects.

Source: Google
NEW YORK TIMES: PHOTOGRAPHS BY RAMIN RAHIMAN FOR THE NEW YORK TIMES

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Uses a radar, lasers, front mounted camera, and a staggering amount of software at work at all time. In response to a Public Records Act request by Quartz for the reports, the DMV cited a different part of the state’s Vehicle Code that requires accident reports concerning traffic injuries or fatalities to remain confidential. “It’s a tenuous stretch of that provision to say that it also covers autonomous vehicle reports,” says Bryant Walker Smith, a professor at the University of South Carolina and a lawyer with the Center for Internet and Society at Stanford Law School. Parking scarcity resolved. The California Department of Motor Vehicles (DMV) rejected both suggestions, saying that it wants to hear about all crashes involving autonomous vehicles. They are also required to report all accidents originating from the operation of their vehicles, even the slightest fender bender. Some companies aren’t happy about this. N.p., n.d. Web. As revealed by Quartz last year, Google and Volkswagen Group of America proposed that only accidents occurring while vehicles were driving themselves should be reported. 8 References “Data Shows Google’s Robot Cars Are Smoother, Safer Drivers Than You or I.” Prison Planet.com Data Shows Googles Robot Cars Are Smoother Safer Drivers Than You or I Comments. Chris Urmson, director of Google’s self-driving car program, revealed today that the tech giant’s fleet has experienced 11 minor accidents (“light damage, no injuries”) in the 1.7 million miles and six years since it started testing its driverless cars. As the AP reported: The national rate for reported “property-damage-only crashes” is about 0.3 per 100,000 miles driven, according to data from the National Highway Traffic Safety Administration. In that context, Google’s three [crashes] in about 140,000 miles may seem high. As well as, Fewer accidents Redundant drivers eliminated. Huge reliance on GPS satellite. The future you imagine is possible. “While I can see the reasons for holding back information about private parties, the whole point of a public records request is to make sure that citizens gain access to information that could affect their lives.” Much of the justification for developing self-driving cars has been their potential to reduce the million-plus fatalities each year on roads around the world. Doesn’t need light in order to function. 1 Google’s self Driving Car “The Google Car” 2 The Google toys Currently Google has equipped multiple cars with this new technology. Volkswagen also wanted to establish a reporting threshold based on the value of damages, in order to rule out minor bumps and scrapes. To the right is a blind man, who has survived a whole trip from his home to a local Taco Bell drive through and back. 5 Advantages To start off, Google did a little test to show off the possibility and reliability of their product. As the company pointed out, however, perhaps 5 million minor accidents are not reported to authorities each year, so it is hard to gauge how typical Google’s experience is. Each of the six companies testing autonomous cars in California has had to post a \$5 million bond against the possibility of their vehicles damaging property or injuring or killing someone. Toyota Prius Audy TT And three Lexus RX450h models. 2,705 2,620 2,392 2,160 2,120 2,083 7 Disadvantages Giving up driving Job losses (taxies, professional drivers) Costs of putting in sensors everywhere. 12 Nov “Technologizer.” Technologizer RSS. 12 Nov “SlashGear.” SlashGear Back to Basics How Googles Driverless Car Stays on the Road Comments. A battery of laser, radar and video sensors and algorithms that never get tired promise a future in which automobile accidents are as rare as commercial plane crashes are today. Better management of traffic flow. They were in fact involved in three. 3 Background Goal of the Google Car is to change the world as we know it. The biggest problem is liability if something does go wrong. 6 Advantages (extended) As well as, Fewer accidents Redundant drivers eliminated. 12 Nov UoHqP5Ht5g0 “Google Driverless Car.” Wikipedia. Wikimedia Foundation, 11 Nov Web. 12 Nov “Google Discloses Costs of Its Driverless Car Tests.” USA Today. 12 Nov “Inside Google’s Quest To Popularize Self-Driving Cars.” Popular Science. Traffic Fatalities (93% of accidents are due to Driver error) 2006 2007 2008 2009 2010 2011 Deaths 38,648 37,435 34,172 30,862 30,296 29,757 Google Deaths: Possible Google Car corrections. “I suspect this is a policy decision made within the DMV or perhaps by others within government that they do not want to expose companies to this kind of public scrutiny, or they want to encourage candor that might otherwise be stymied.” “The public has a right to understand what some of the risks are,” says Ryan Calo, a professor at the University of Washington who teaches a class on Robotic Law and Policy. Either way, hiding minor accident reports from the public suggests a rocky road ahead for self-driving cars. The fourth accident involved a car using Delphi technology. An investigation by the Associated Press has uncovered that four of the 48 self-driving cars on California’s roads have been involved in four accidents since September, after the state refused to make the official accident reports available. Two of the accidents happened while the vehicle was driving, and the other two while the human safety driver was in control. 12 Nov “Pros and Cons - Autonomous Cars.” Pros and Cons - Autonomous Cars. This skirts the possibility that a car could simply hand back control to its human driver in the instant before a collision. California also wants to understand whether autonomous vehicles are more accident-prone through no fault of their own. Examples: Safer roads User friendly to more than the current driving population (youths, intoxicated, elderly) More eco-friendly, less harmful emissions. 4 Technology This car is filled with technology allowing it to differentiate between other cars, pedestrians, cyclists, and small and large stationary objects. “We’ve seen this moment when the car basically becomes a better driver than a human being, and it’s a transformational moment,” says Sebastian Thrun, who launched Google’s driverless car program. But no one knows if such an accident-free future is even possible, or whether autonomous vehicles will prove as flexible and responsive as humans in the most dangerous and unpredictable scenarios. Google, whose cars suffered three of the accidents, and Delphi, who had the fourth crash, both claim that in all cases human error or inattention, rather than the autonomous technology, was to blame. Correction: An earlier version of this article carried a headline stating Google’s cars were involved in four accidents. All together, this helps create a 3D model image of the immediate area. Gannett, n.d. Web. 12 Nov Self-driving cars vehicles might, for example, experience more accidents because other drivers are nervous around them or are unable to get social cues, such as eye contact at stop signs or pedestrian crossings. But as useful as DMV expects these reports to be internally, it is currently refusing to release them to the public.

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