

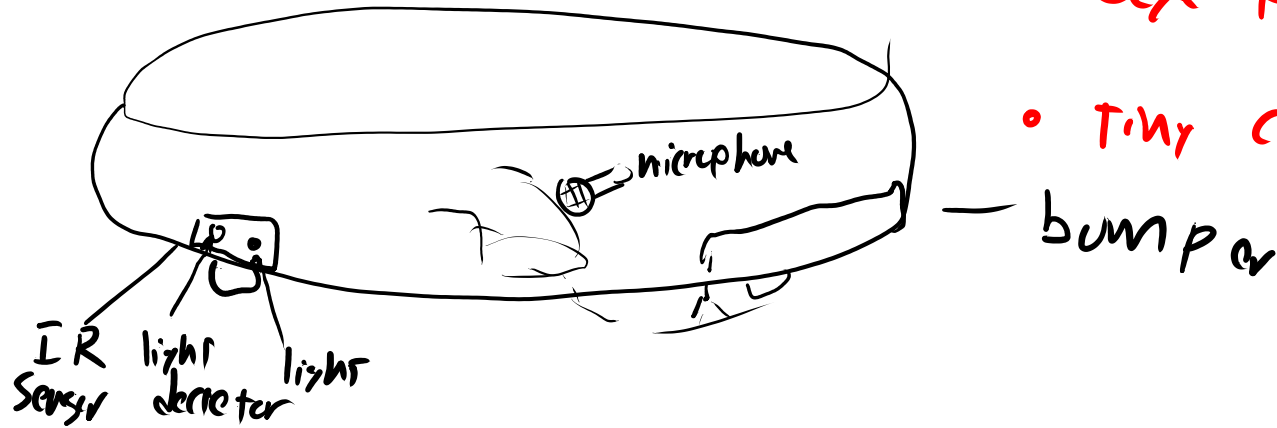
# Robot

1. Computation
2. Sensors
3. actuators

i Robot Roomba  
vacuum cleaner

2002ish

- Turn and go in
- Straight line
- Outward spiral
- edge following
- Tiny circle



# Car

- Stay in lane
- Stop (and know when to)
- destination (route)
- Park (not in traffic)
- speed limit
- construction, accident, traffic cop
- react to accidents (its own)
- Change lanes
- Traffic lights
- Crosswalks
- bad weather
- rider gets sick/etc
- 
- 
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Sensors

Camera

actuators

accelerator

brake

turn signal

steering wheel

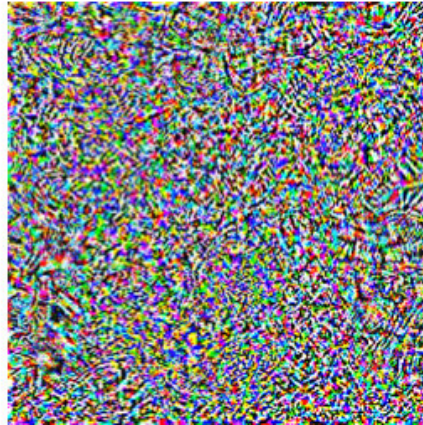
horn

# adversarial machine learning

“pig”



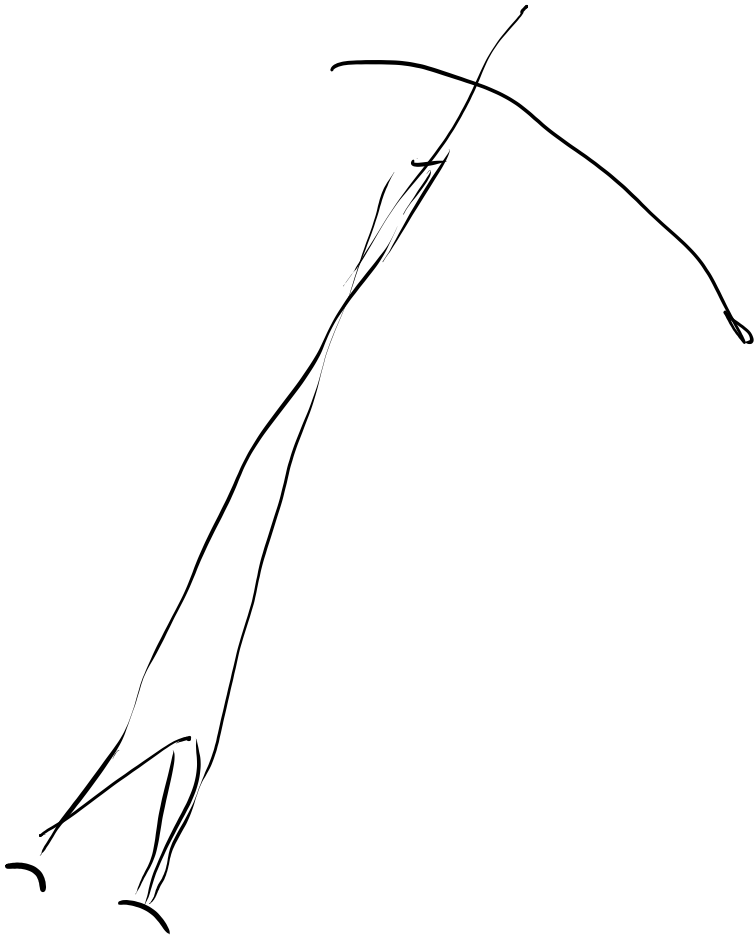
+ 0.005 x



=

“airliner”





mostly, driverless car

- Surprise
- Overly-reliant