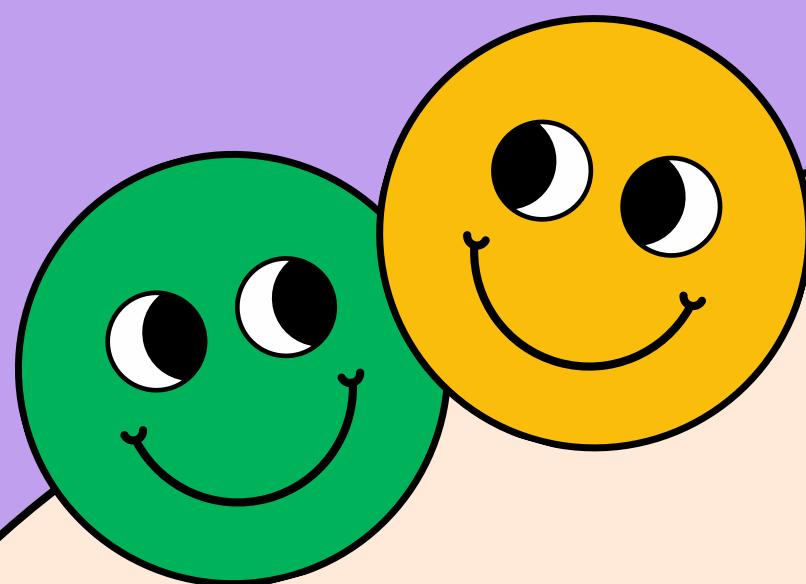
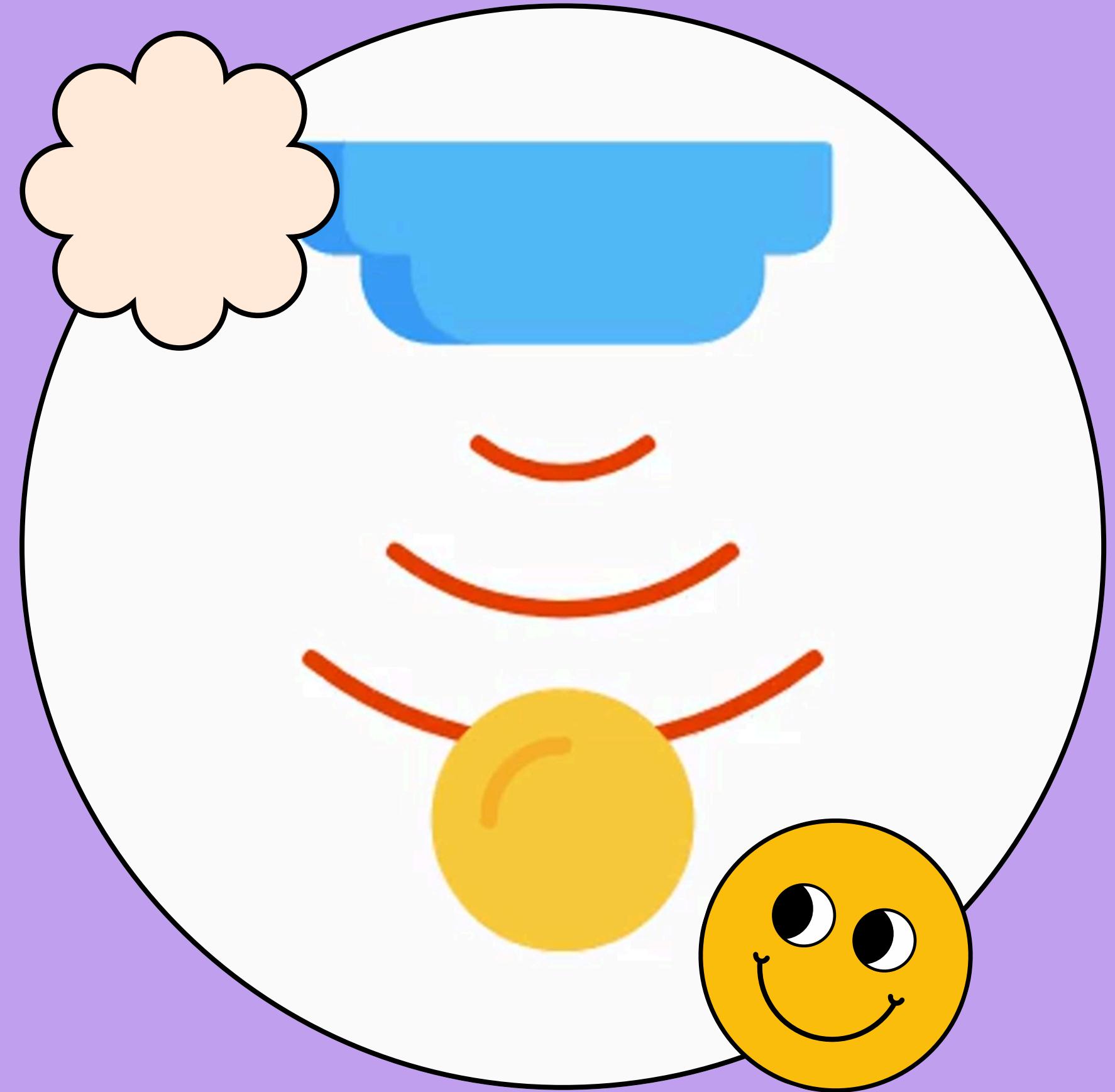


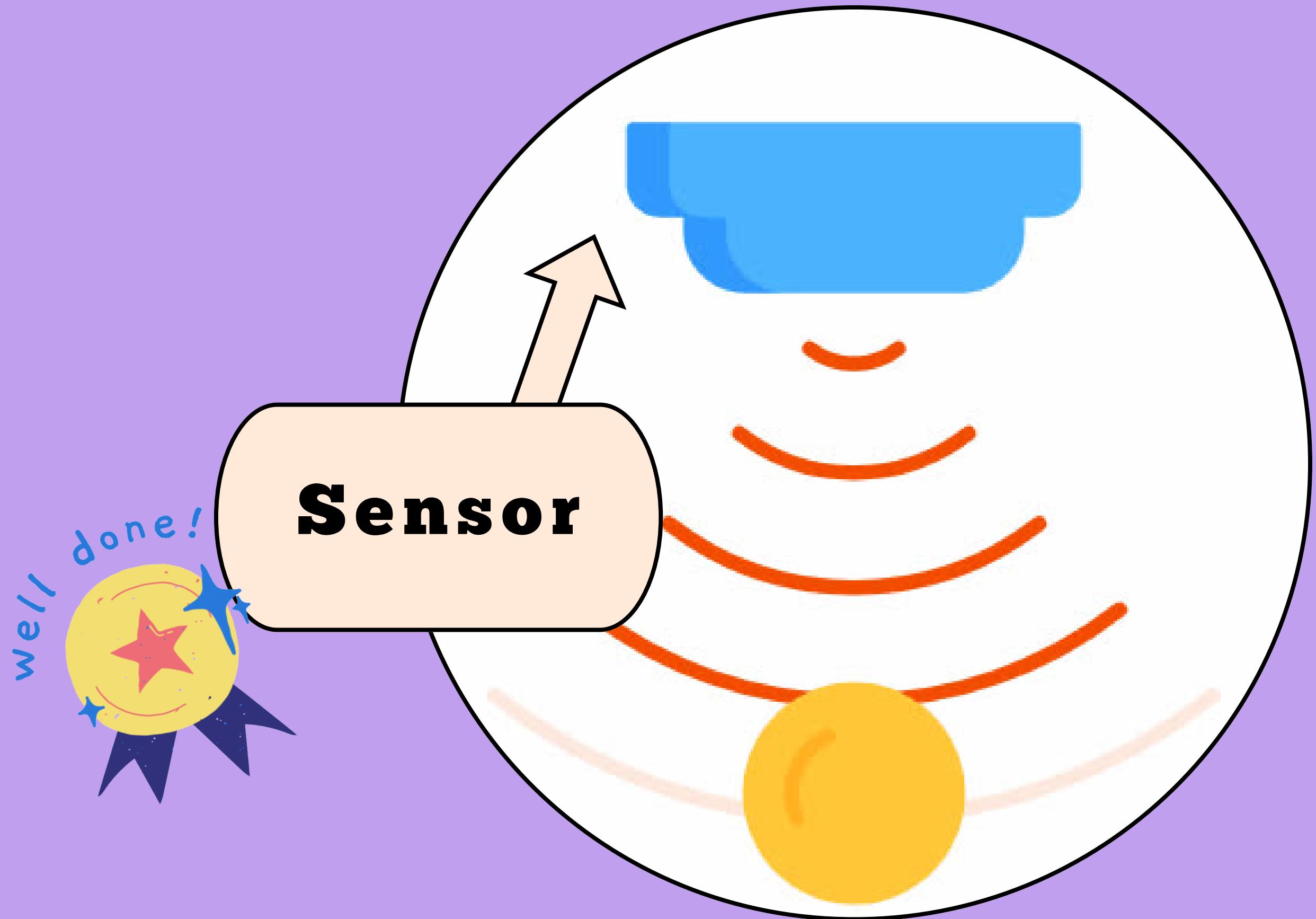
# LET'S LEARN ABOUT SENSORS

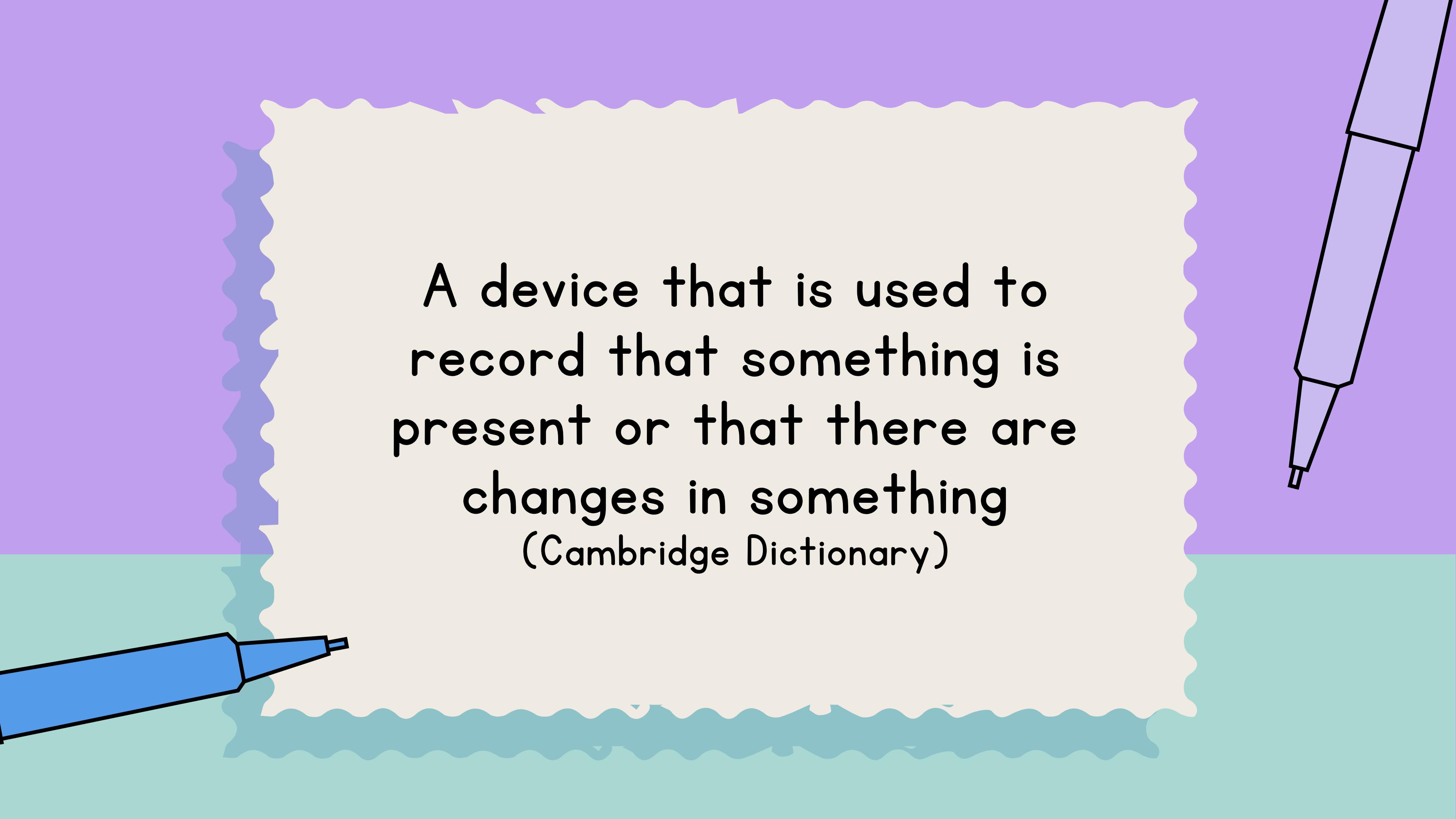


# **What is a Sensor?**

Can you see what the ball is being sensed by?

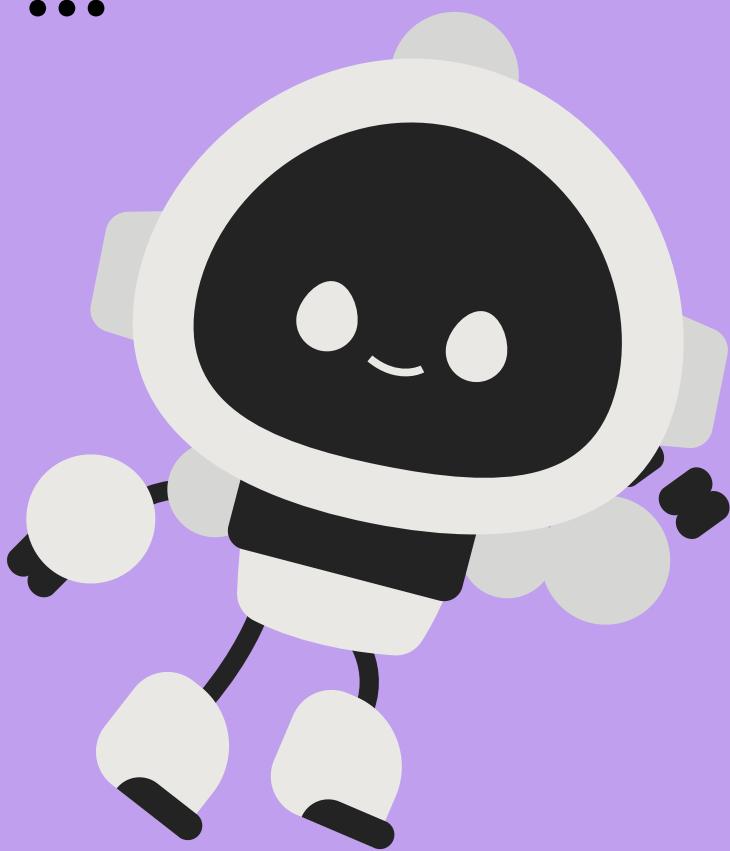


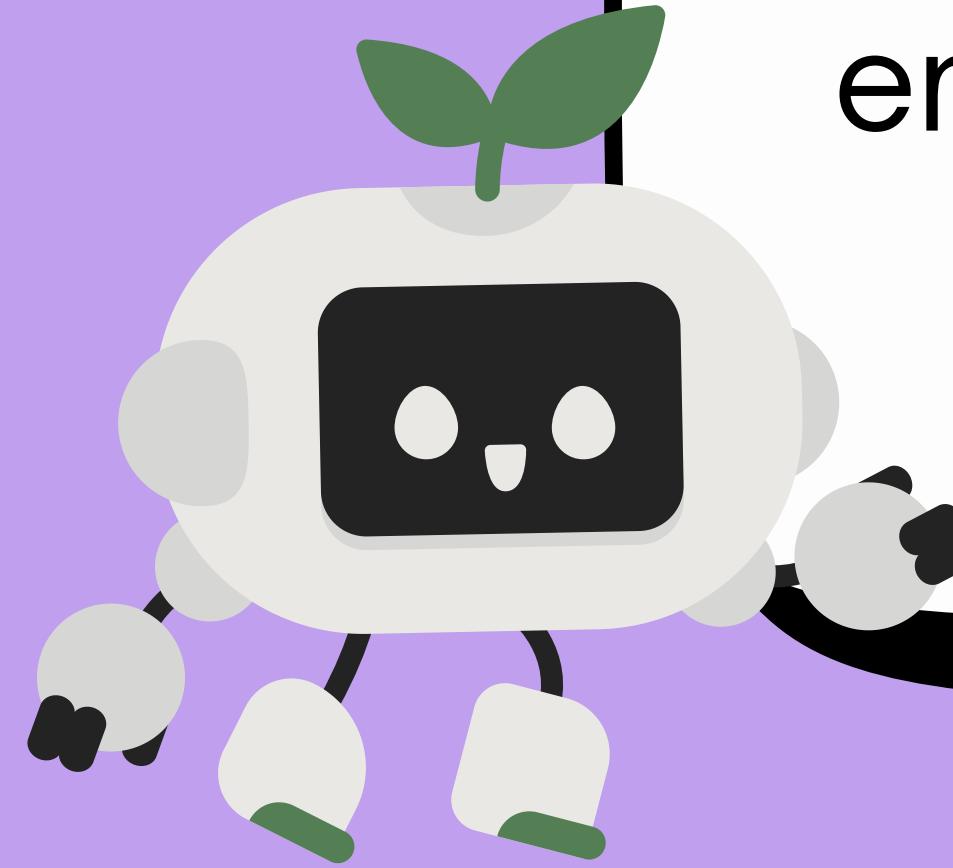


The background features a central white rectangular area with a decorative scalloped border. This is set against a light purple background that has its own scalloped border. In the bottom left corner, there's a blue highlighter-like pen, and in the top right corner, there's a black pen.

A device that is used to  
record that something is  
present or that there are  
changes in something  
(Cambridge Dictionary)

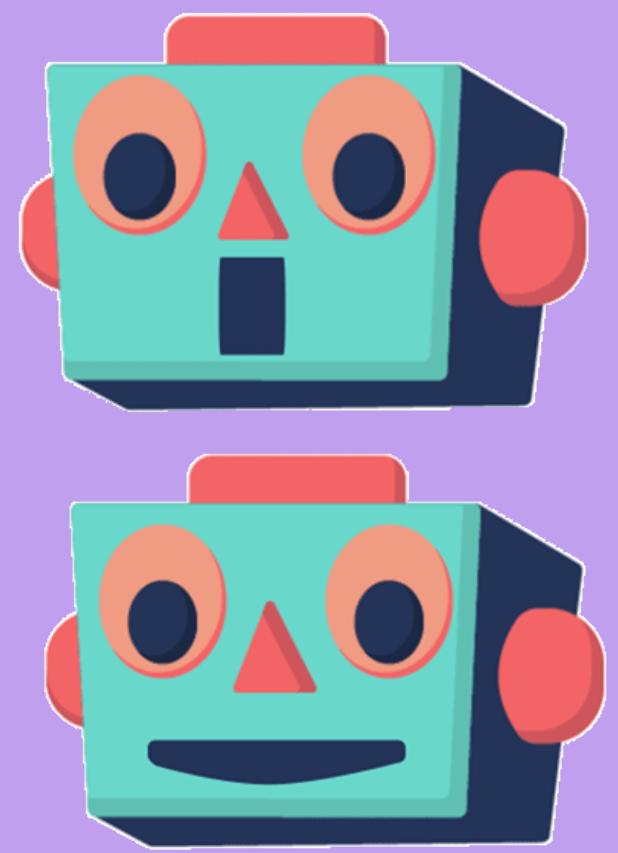
in the context of robot...



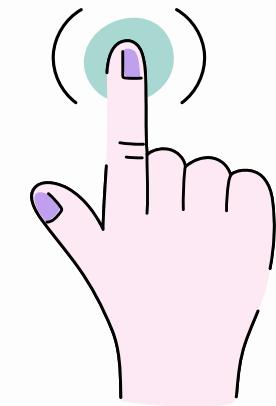
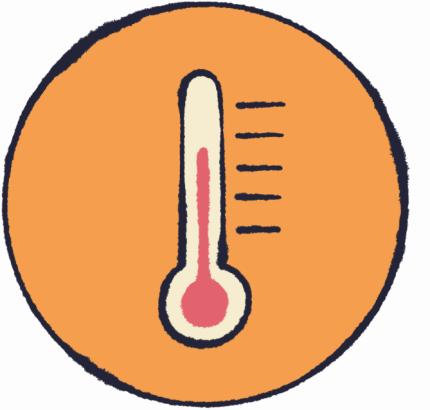


sensors are devices that allow a robot **to perceive** and **interpret** its surrounding environment, as well as its own internal state

# **Common Types of Sensor**



Temperature  
Sensor



Touch  
Sensor

# Common Types of Sensor

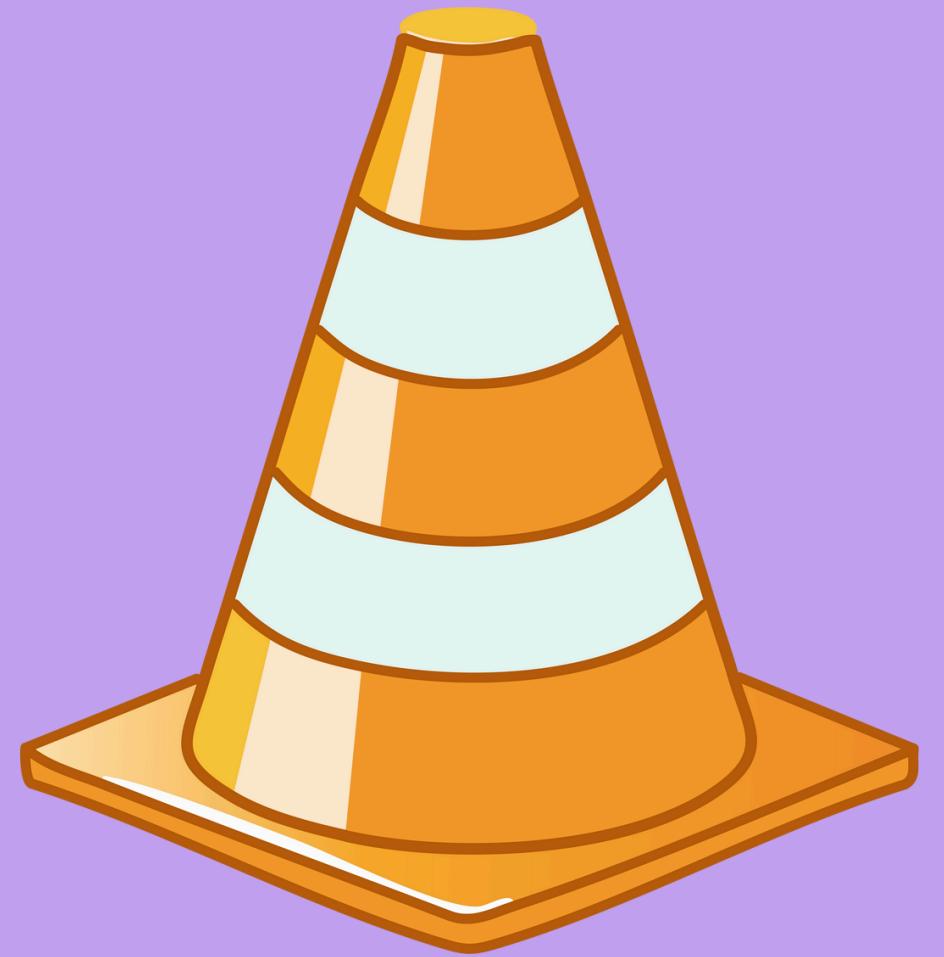
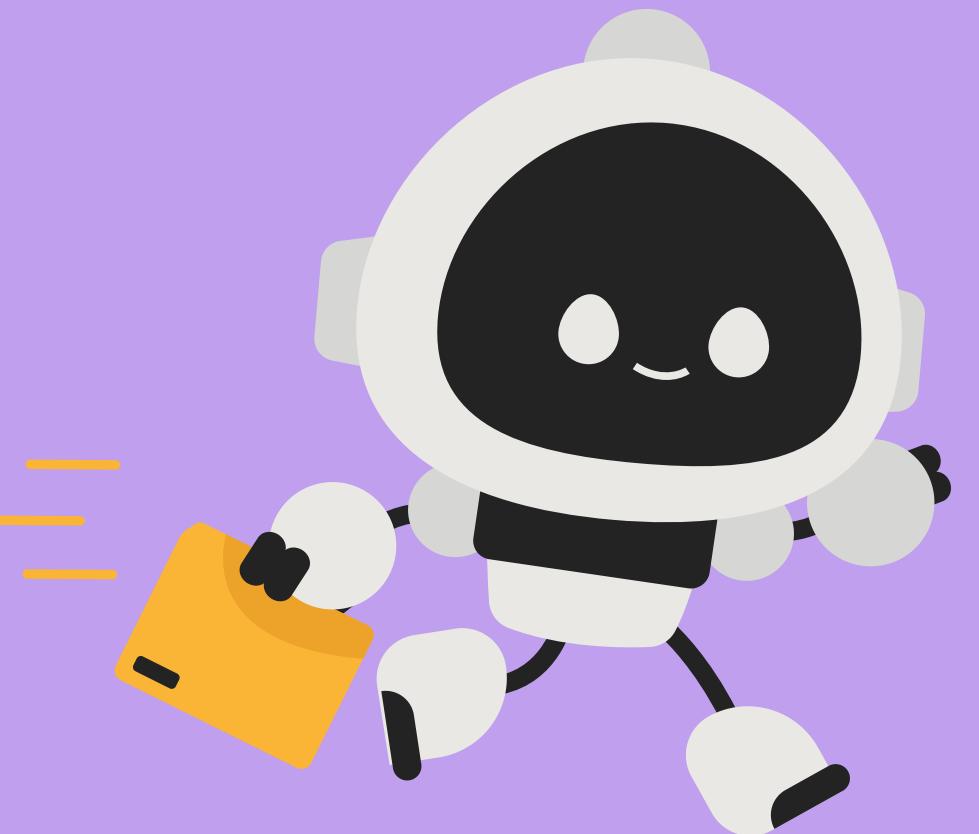


Light  
Sensor

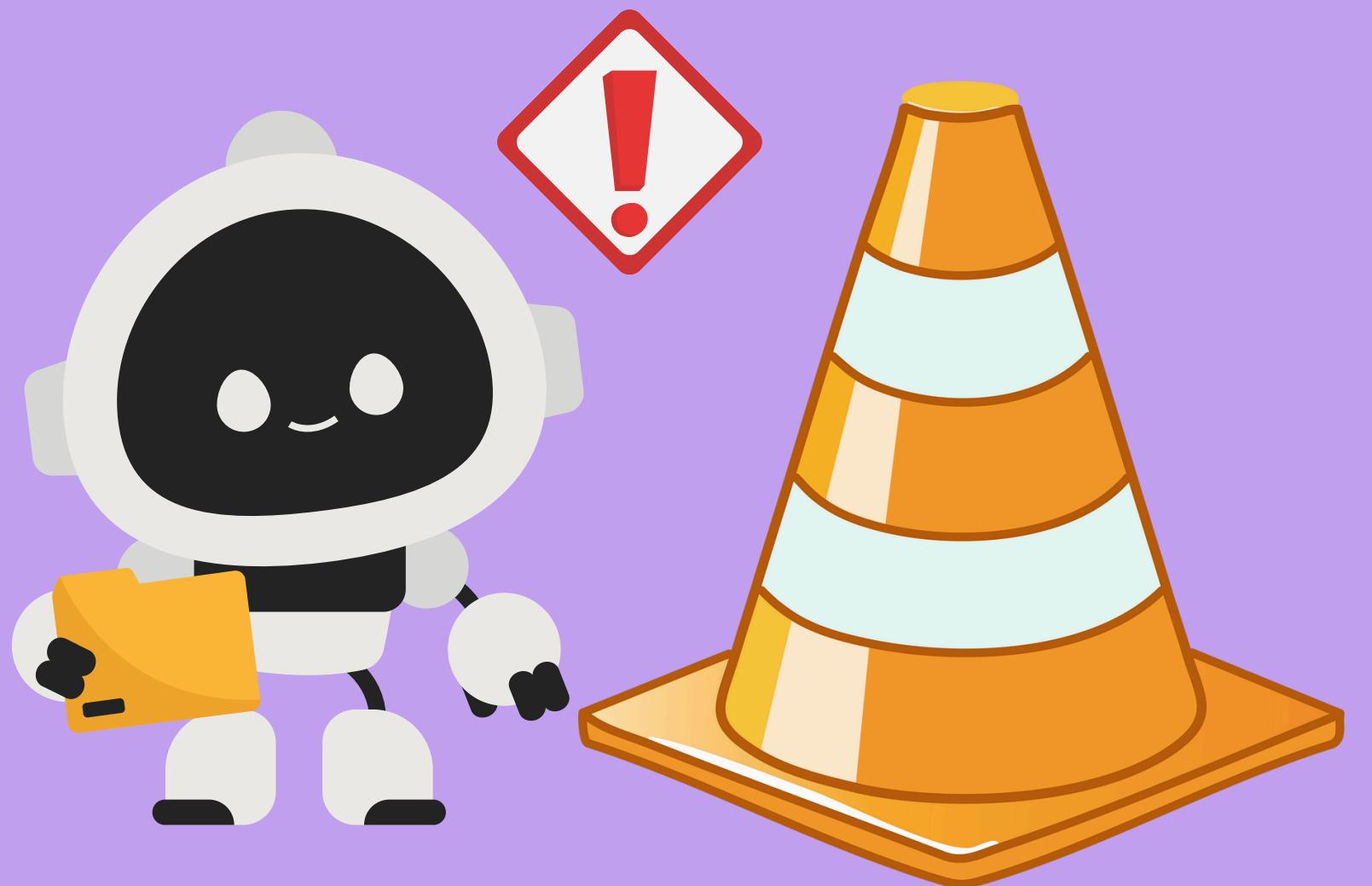


How to relate  
sensor and robot?

when an  
obstacle is close  
to the robot...

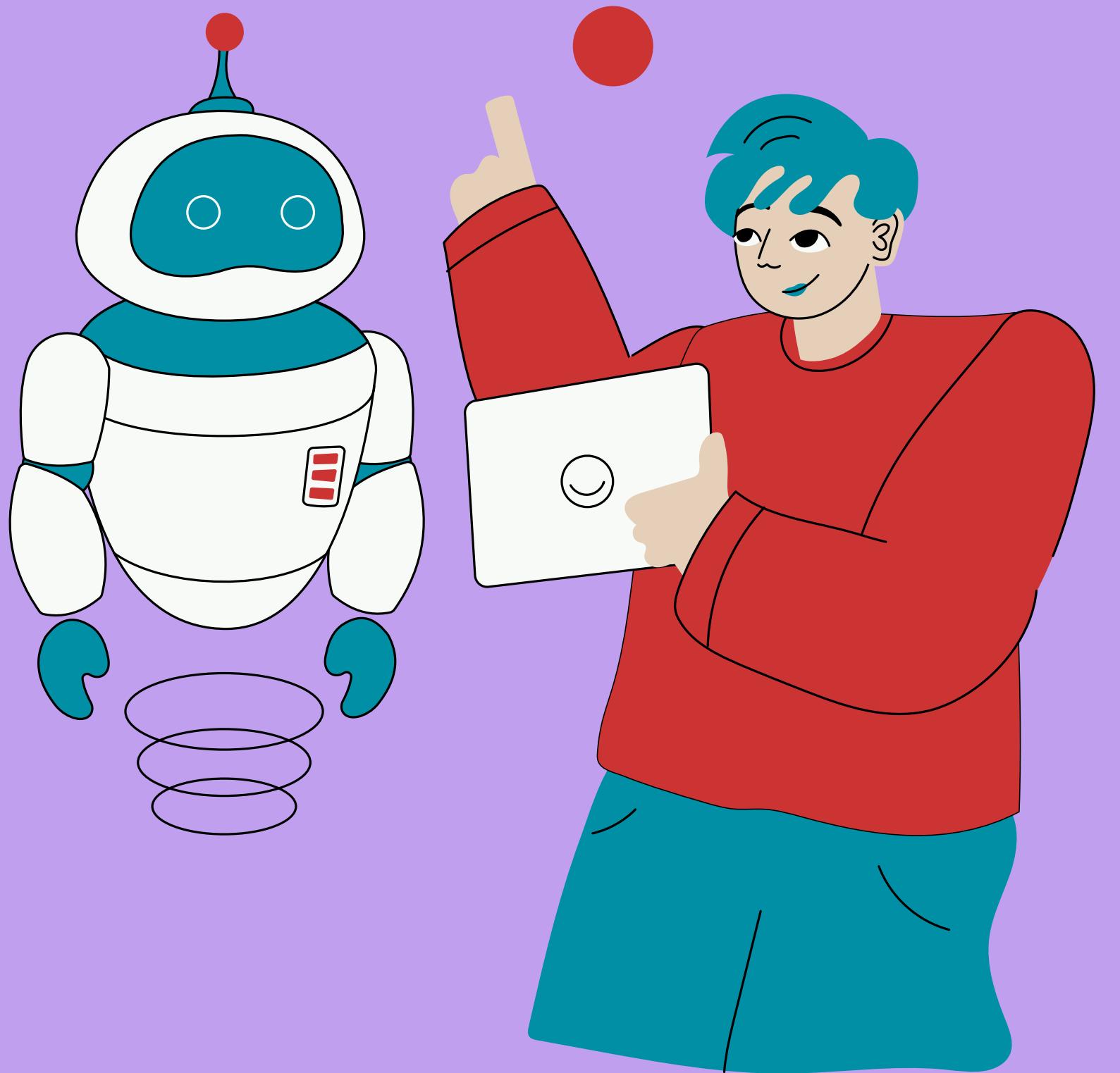


*...the robot  
will stop*



# Some simple example using different types of sensors

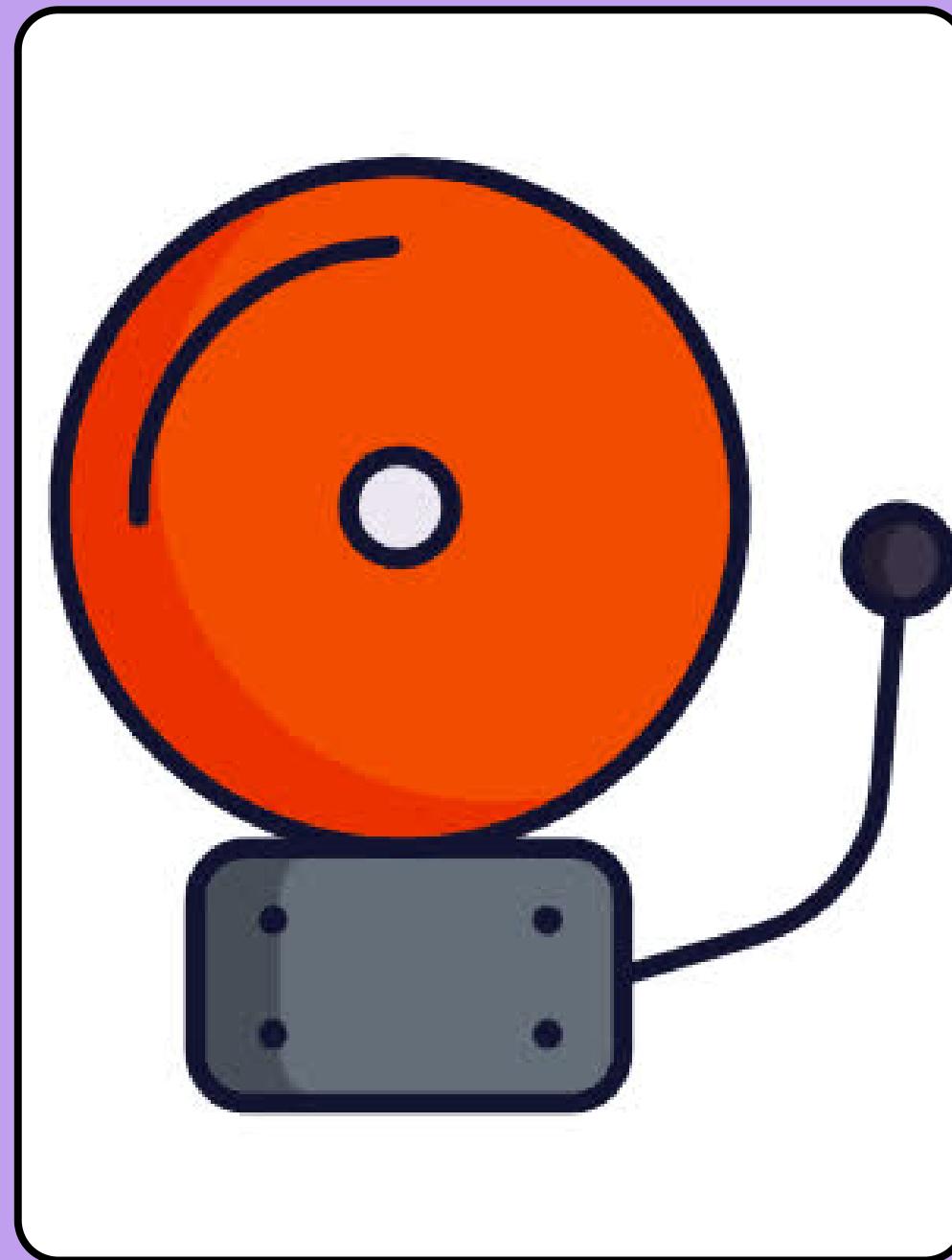




# Real Life Examples

Can you notice anything around your surroundings that uses a sensor?

# You would see these examples in your daily life



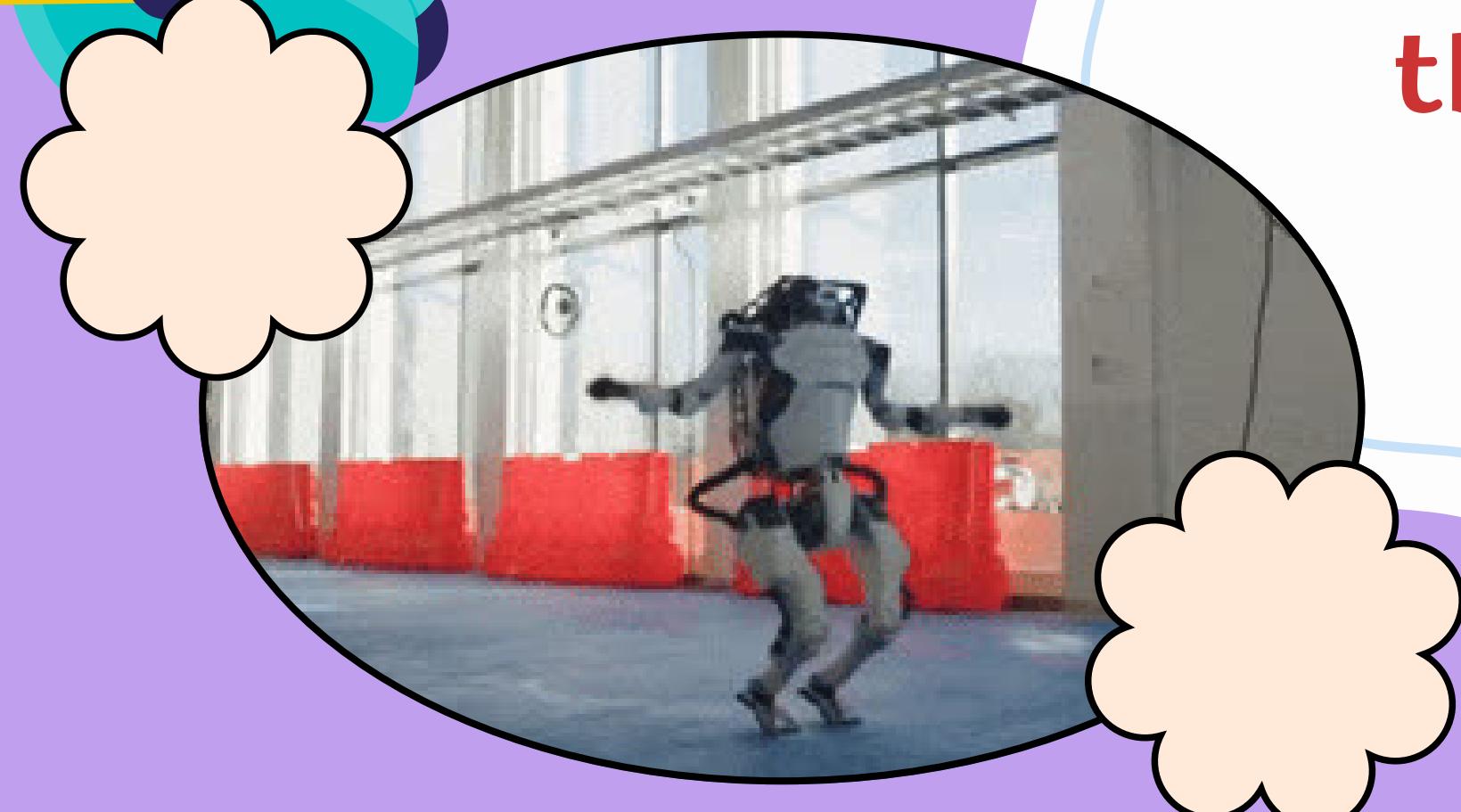
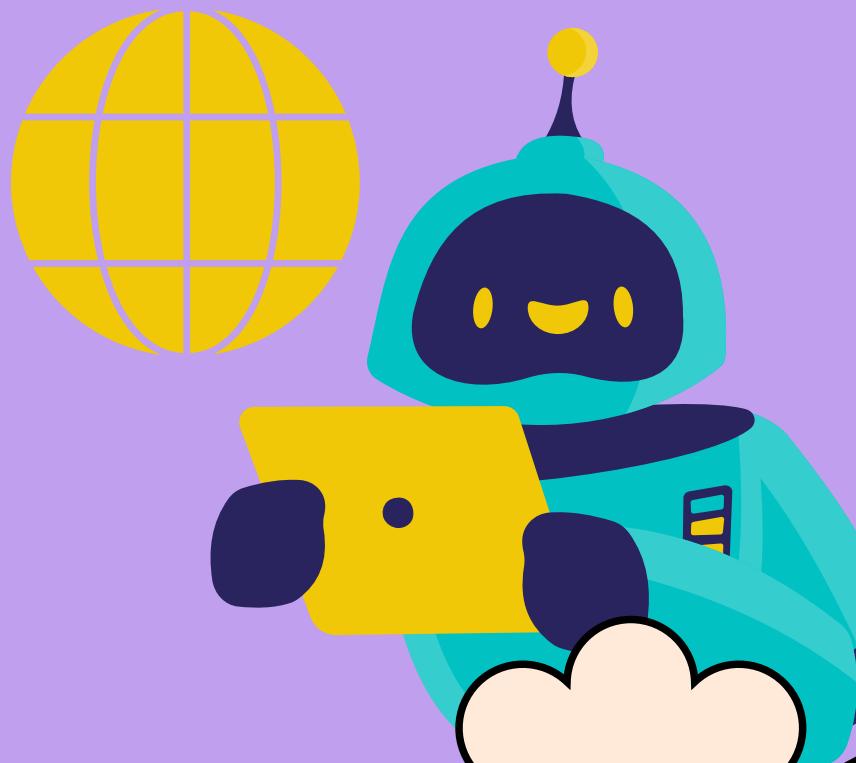
Fire Alarm System

Lift Buttons

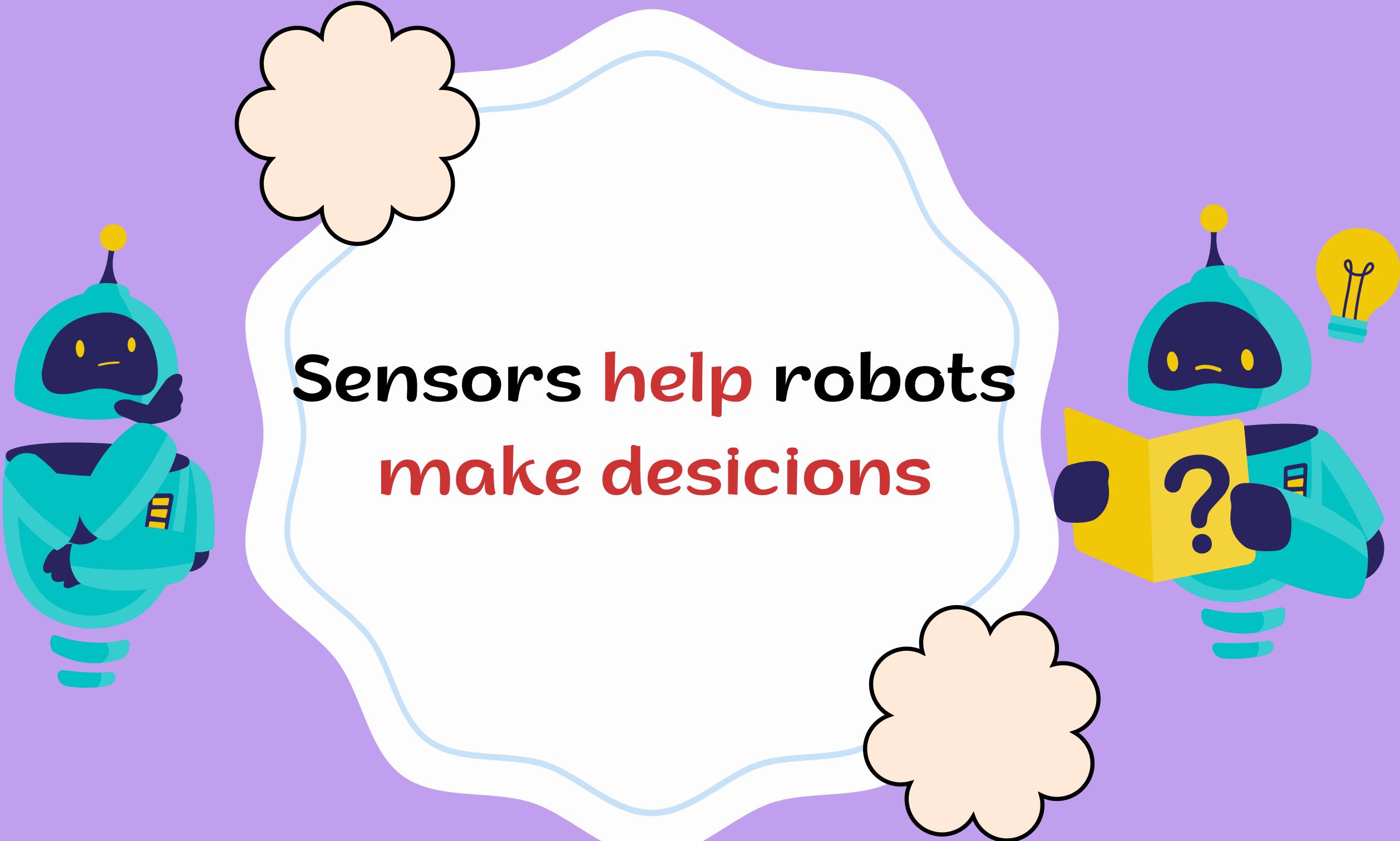


Street Lights

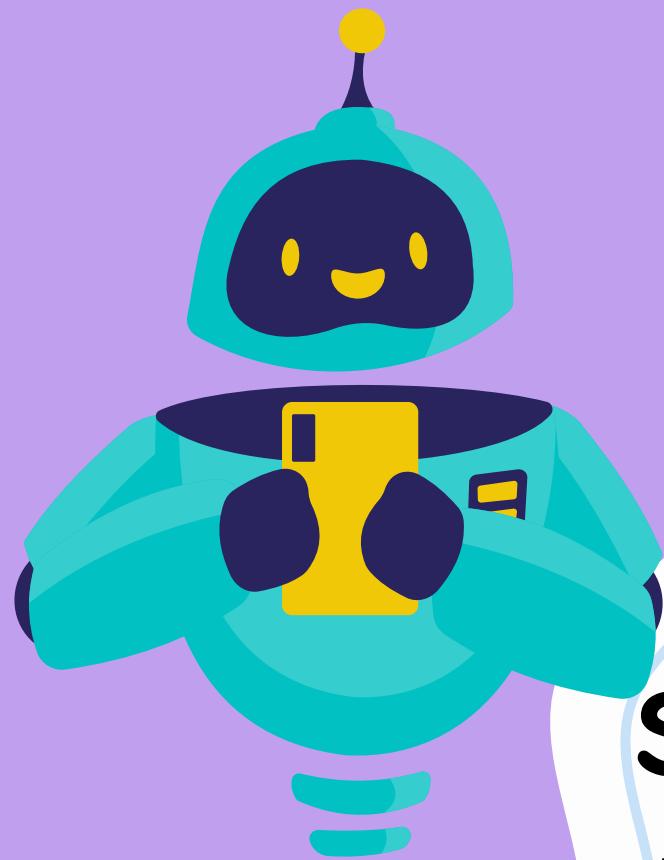
*Why do you  
think robot  
needs sensor?*



**Sensors help  
robots understand  
the world**



**Sensors help robots  
make decisions**

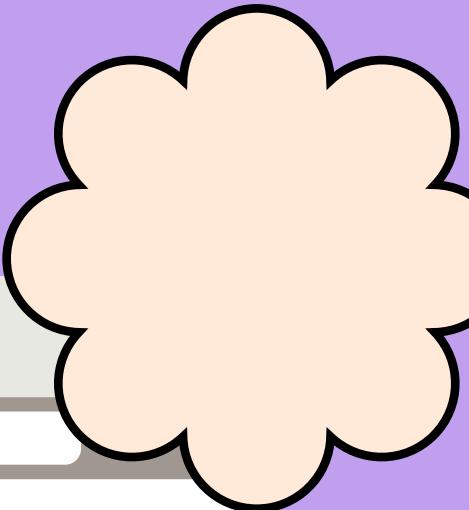
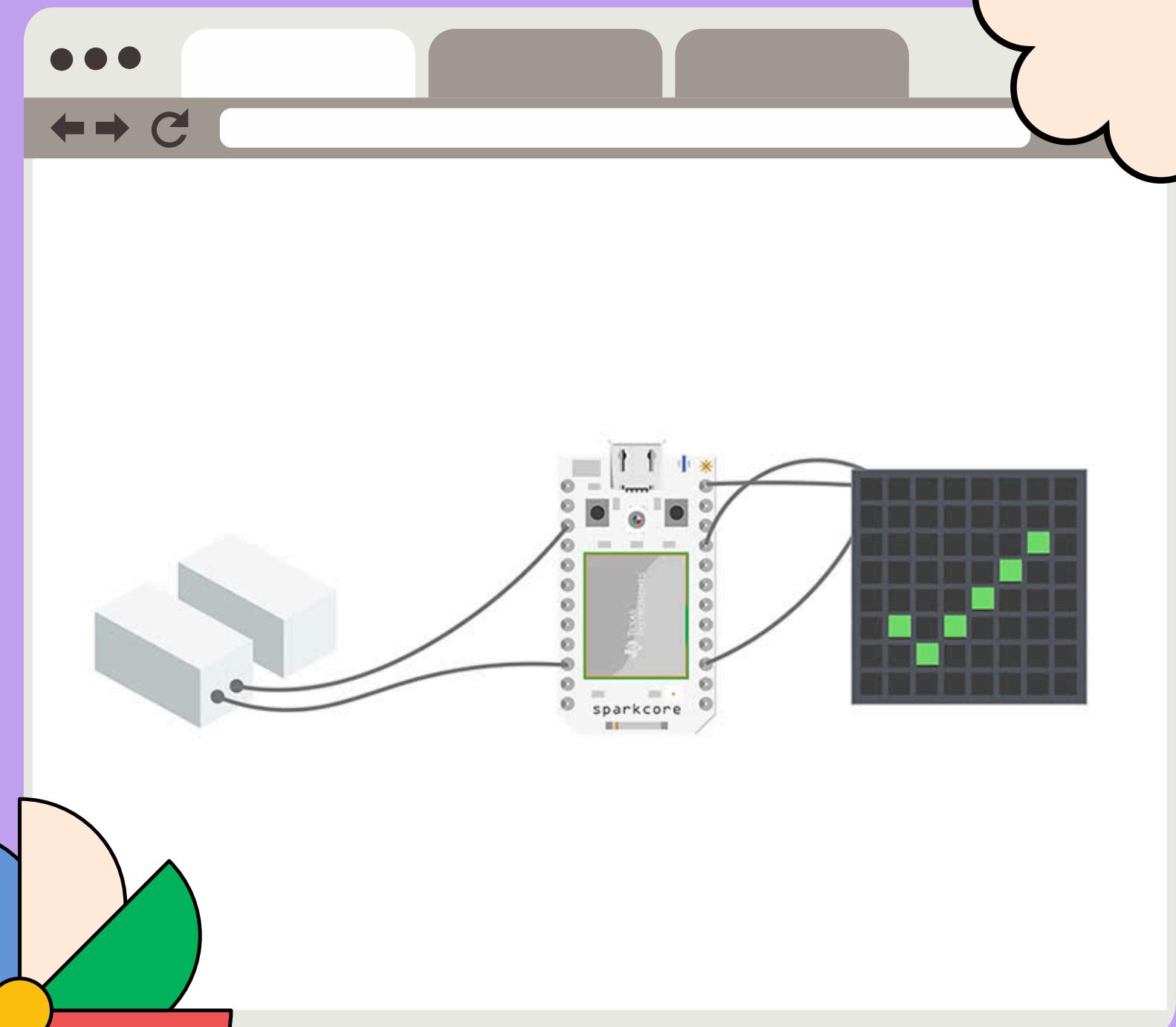
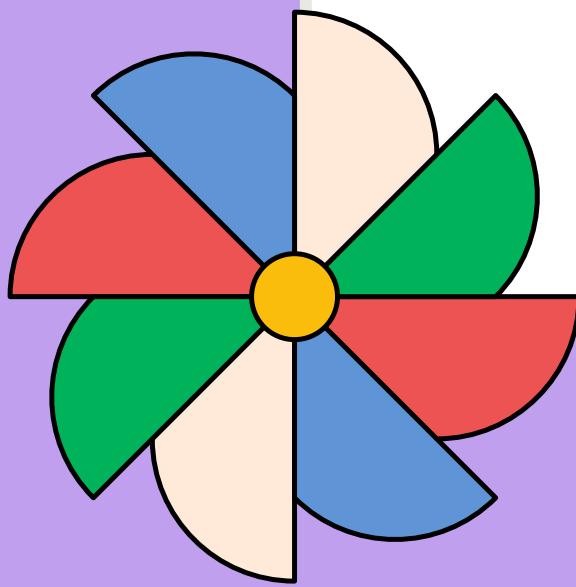


Sensors **help** robots  
to **interact** with the  
**environment**



# **Do you now understand sensor better?**

And how can it be  
relate with robot?



THANK YOU

FOR WATCHING