

What is a ROBOT?

sense—think—act

At iRobot we define a robot as a physical system that senses and thoughtfully acts in response to the physical world in the pursuit of a goal.

This means that our robots need to sense, think and act in a manner that allows them to achieve their goal.

The purpose of the robot

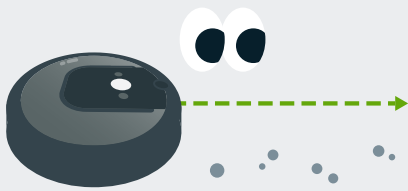
Robots should have a purpose; this is its main goal and reason for being used.

Example: *For Roomba, the goal is a clean floor.*

Sense

How does the robot interpret its environment?

Example: *Roomba needs to sense the home and where the dirt is.*



Think

How does the robot use its awareness to construct a plan?

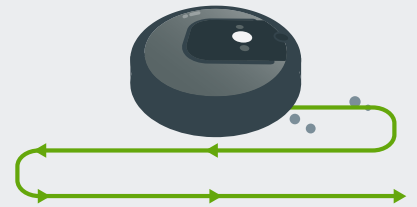
Example: *Roomba needs to make a map of its environment to best understand how to clean the space.*



Act

How does the robot thoughtfully act out the plan?

Example: *Using its map and programming, Roomba creates a plan to achieve its goal.*



You can use this process to help determine what is a robot. As you look around your own environment, think about the objects you see every day.

Are these robots?

- Cars
- Smart Thermostat
- Smart phone
- Dishwashing Machine

