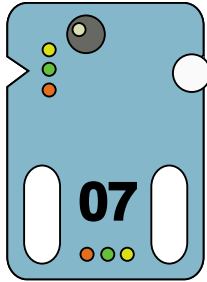
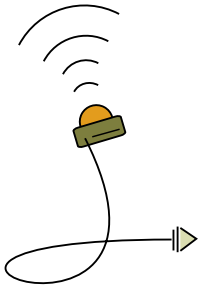


Legend



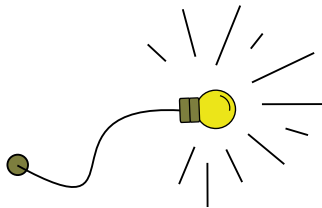
= this is a '**MODULE**'. it's the '**Brain**' that controls the inputs and the outputs. this specific one is module number 7.

Sensors will be connected to the triangular input and Actuators to the circular output.



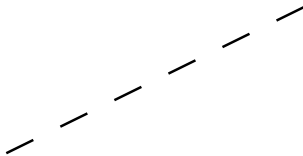
= this is a '**SENSOR**'. it can be any kind of sensor (distance, temperature, ..) and it offers the module an '**Input**'.

Any device that has the 'waves' symbol in its proximity represents some kind of sensor.



= this is an '**ACTUATOR**'. it can be any kind of actuator (motor, light, ...) and it acts as an '**Output**' for the module.

Any device that has the 'rays' symbol in its proximity represents some kind of actuator.



= a dashed line indicates a '**WIRELESS CONNECTION**' between the different modules.

Info

= these tags are being used to provide additional info

Example

= these tags are being used for examples.

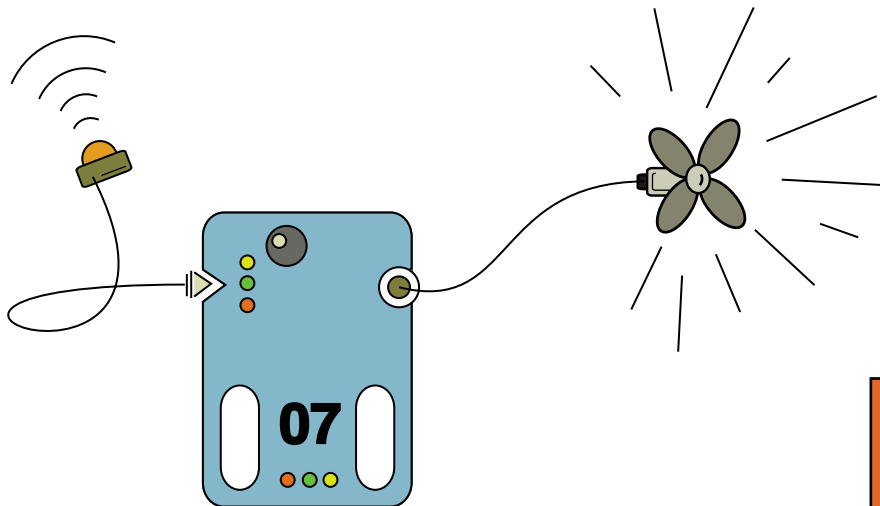
Tip !

= these tags are being used to provide specific tips.

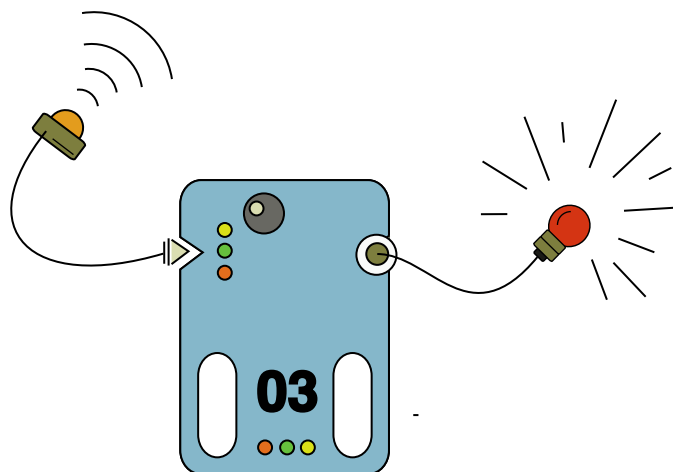
Function 1

These modules are connected to both a sensor and an actuator.

Data retrieved from their sensor can be send directly to their actuator.



Notice that the different modules have a personal number.



Equal inputs can cause different outputs

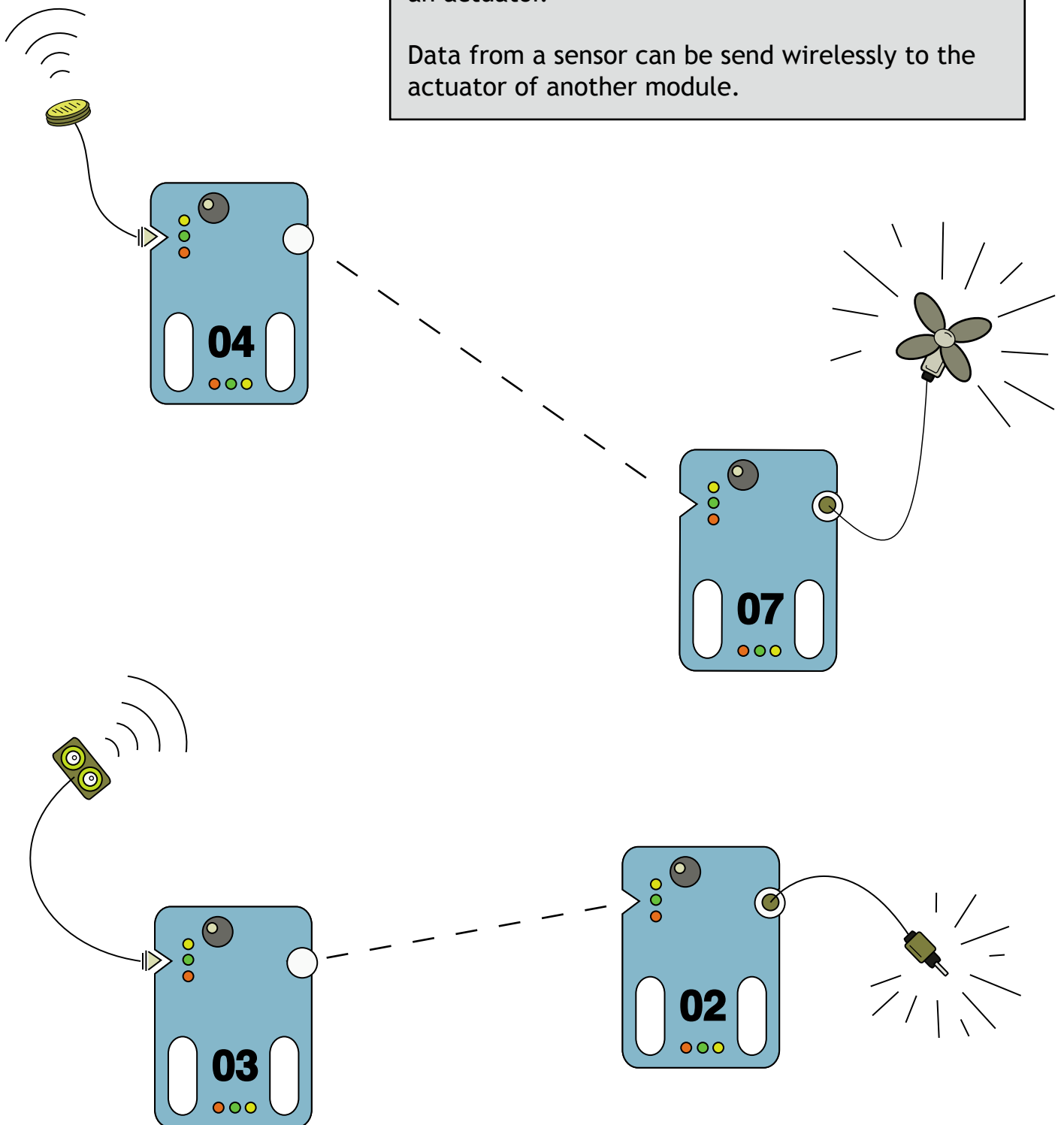
Example 1: A heat sensor measures a decrease in room temperature and makes a fan turn slower.

Example 2: That same heat sensor, now hooked up in combination with a light bulb as an actuator, measures a increase in temperature (because a person wraps his hands around it) and causes a red light bulb to light up.

Function 2

These modules are connected to either a sensor OR an actuator.

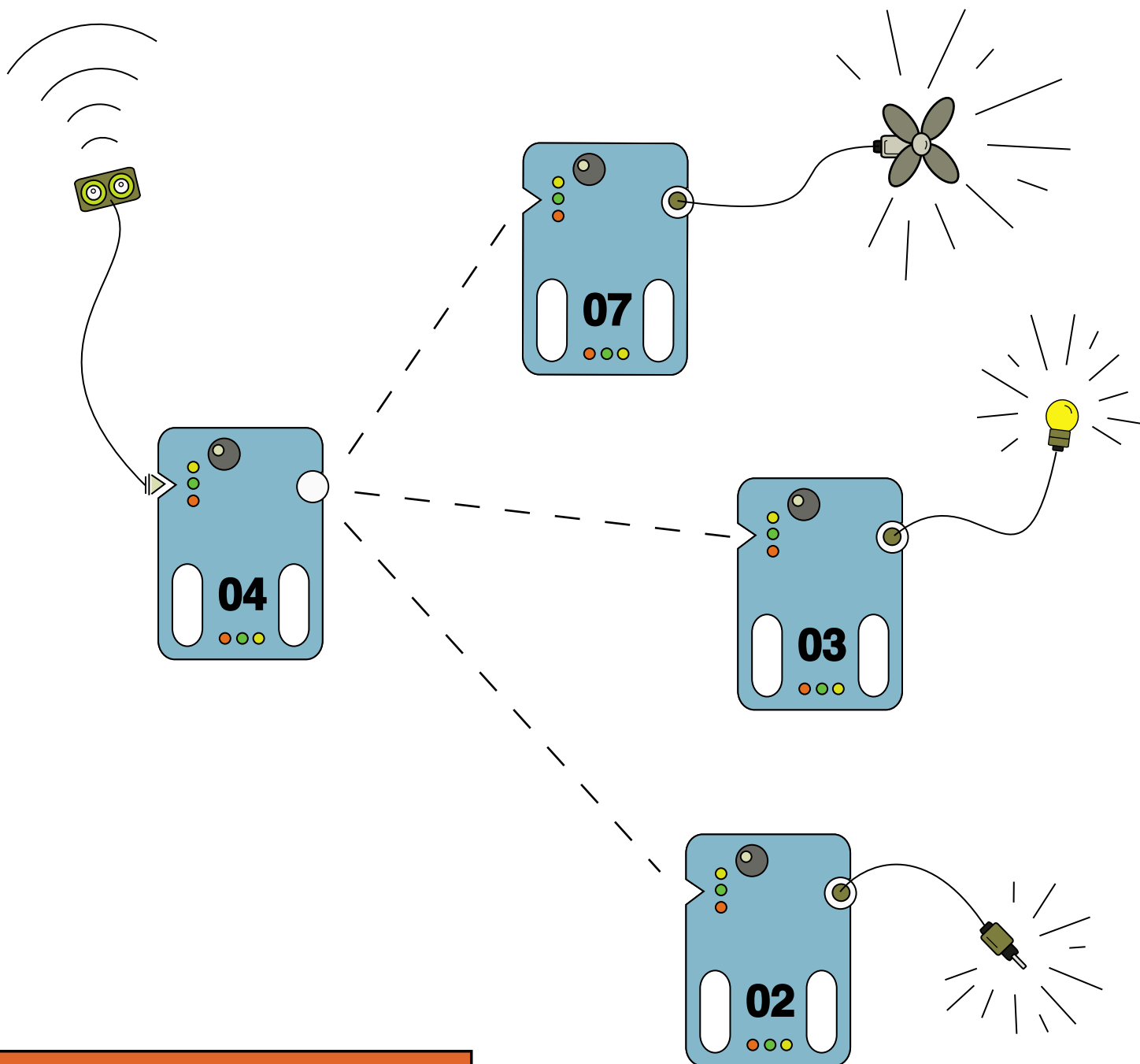
Data from a sensor can be send wirelessly to the actuator of another module.



Each module can be set up to connect to any other module within a certain range.

Function 3

One module can also be setup to send its data wirelessly to all the other devices.



All the different actuators will react simultaneously to changes at the sensor

Example 3: The data input from a distance sensor gets send wirelessly to three other modules, each creating a different form of output (fan, lightbulb, motor)