

Motion Sensor!

When I park my car sensors tell me when I am moving too close to other objects by beeping. Let's turn InO-Bot into a motion sensor who could guard your desk!

define Movement Complete

- wait 0.1 secs
- wait until Motion complete

when clicked

- forever
 - Spin Right Medium by 45 degrees
 - Movement Complete

You will need these bl... InO-Bot

First build this algorithm to make InO-Bot turn using a **forever** loop.

if Distance < 50 then

- Play sound 3
- Set All LEDs to Red

else

- Set All LEDs to Off

Now get an **IF/ELSE** loop from the **CONTROL** blocks.

Find the green **LESS THAN** block in **OPERATORS**.

Drag it into the forever loop.

when clicked

- forever
 - Spin Right Medium by 45 degrees
 - Movement Complete
 - if Distance < 50 then
 - Play sound 3
 - Set All LEDs to Red
 - else
 - Set All LEDs to Off

Put InO-Bot **safely** on your table where he can turn around. **DON'T** move things out of the way!

Click the green flag. Watch happens as the InO-Bot turns?

What is the InO-Bot detecting?

if Distance > 50 then

- Play sound 6
- Set All LEDs to Green

else

- Set All LEDs to Off

Make this **SECOND IF/ELSE** algorithm.

Make sure you select the **MORE THAN** operator block.

Add it into the FOREVER loop **under** the first IF/ELSE algorithm.

Now click the green flag. What happens now?

Put InO-Bot in a space on the floor. Test it.

Investigate different distances for your Motion Detector. Try different alarm sounds. How many different distances can it detect?

when space key pressed

- Set All LEDs to Off

This might be **useful** to make. Why?