

USING SENSORS: MOVE UNTIL

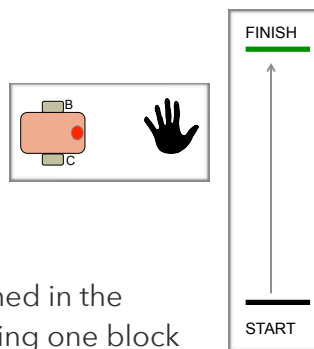
By Droids Robotics, 2015

Why use sensors?

Many rookie teams are nervous about using sensors in their first year. However, learning to use sensors will save you lots of time and frustration by making your robot more reliable. In this Quick Guide, we share with you a quick way to program with sensors.

Perhaps the most useful concept you can learn is "move until"

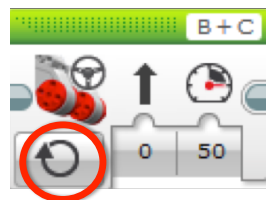
- Move until you touch something
- Move until a certain distance
- Move until a line



All of these are programmed in the exact same way and learning one block will open up a world of possibilities in your code.

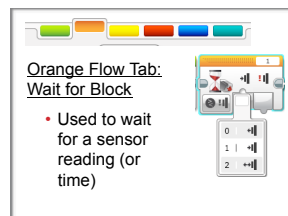
Move Steering - Motor On/Off Mode

If you want to keep moving until something happens, you first need to use the Steering block in the "ON" Mode. At the end of the code, you will turn the motor "OFF". Once this Steering "On" block executes it moves to the next block.



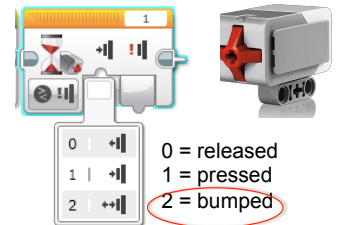
Wait For Block is the next block you need

What is "do something until" in EV3 Code? You use the Wait For block in the Orange Flow Tab.

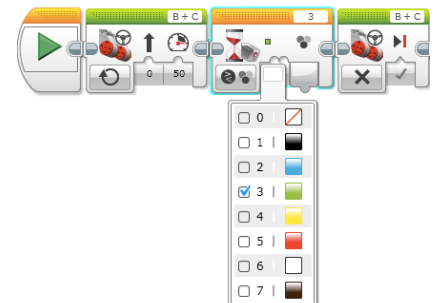


What can you do with the Wait For Block?

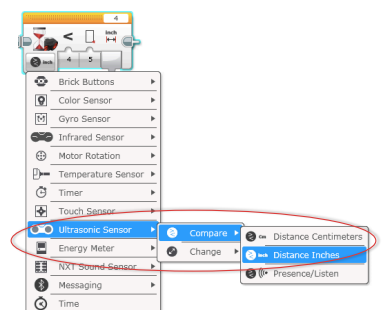
Wait for a touch sensor to be bumped:



Wait for a particular color to be seen:



Wait until you are a particular distance away from an object?



Now that you know the Move Steering Block in ON/OFF Mode and the Wait For Block, you can start using your sensors.

For complete lessons using each of these sensors, you can learn more on EV3Lessons.com (Beginner Lessons).