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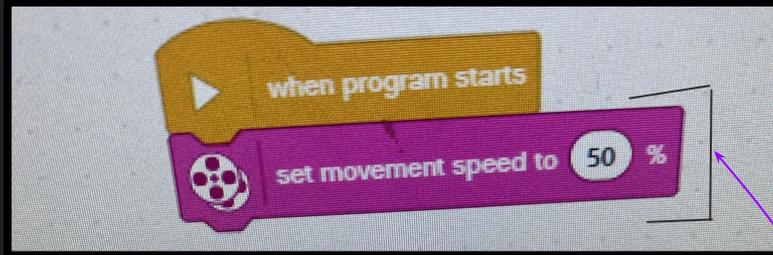
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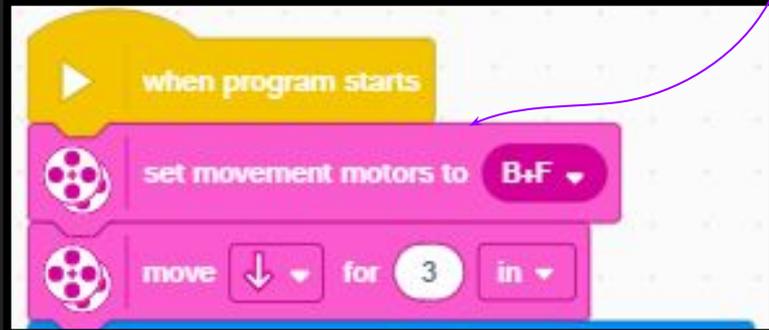
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Basic Movement



Set Speed of Motors:

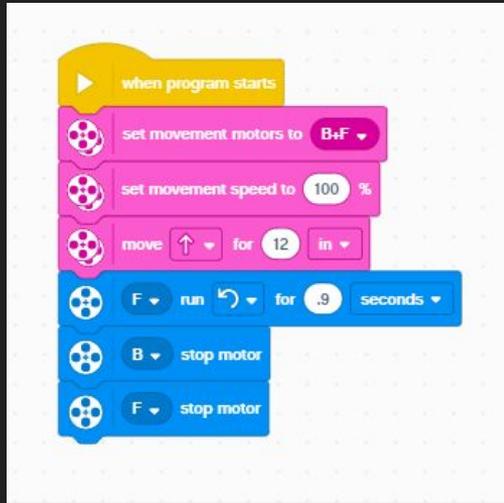
- ❖ How fast would you like your robot to move?
- ❖ Almost always place this before your first movement block, such as the one seen below



Set Movement Motors/Move:

- ❖ The first block here sets the motors that will be used when the move block is used, and should be done first with setting the speed
 - On most, if not all robots, these motors are B and F
- ❖ The second block here simply moves the robot, and the arrows indicate direction
 - Down arrow = Forward
 - Upwards arrow = Backward
- ❖ Change the number to the left of "in" for the distance, along with selecting the unit itself where "i" is

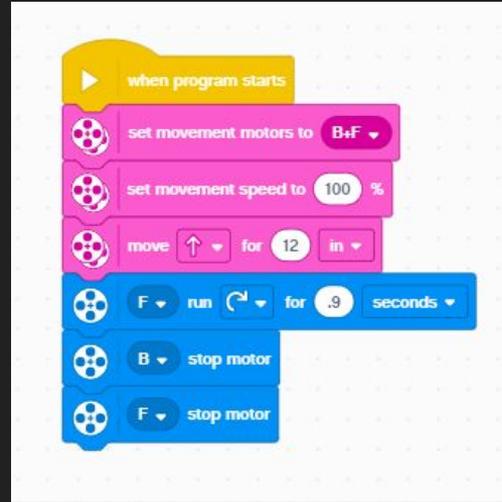
Right Turn



Right Turn:

- ❖ The method here allows the robot to pivot/turn in place
 - Spins the left wheel motor right
 - Left arrow turns right
- ❖ **Instead of using stop motor, here, in movement, a block called stop moving would do the same of stopping the robot

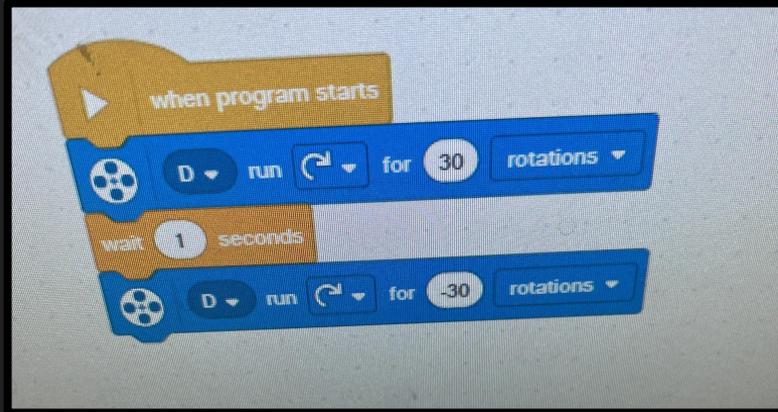
Left Turn



Left Turn:

- ❖ Same setup as right turn, just flipping the direction of the wheel movement

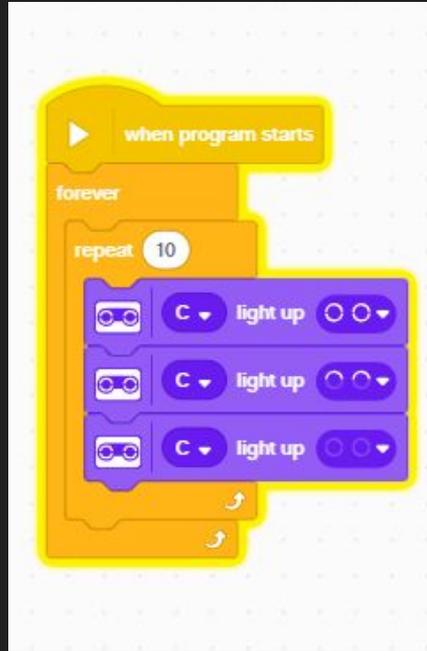
Arm Movement



Arm Movement:

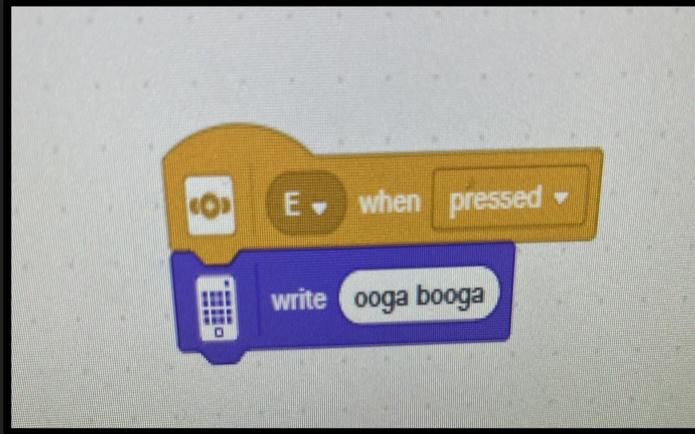
- ❖ Select the motor for the arm, which is D on all robots
 - The wait block should be used, even if at 0 seconds, in order to space the commands
- ❖ This will move it almost all the way up and then down

Light Control



- ❖ Light Control (headlights):
 - This image makes the robot flash its lights
 - You do not need the “repeat (10)” block, as the “forever” block around it performs the same task
- ❖ The first light up block lights up both sides of the headlights

Display Message



- ❖ Display Message:
 - The second block in this sequence displays a message over time on top of the robot
 - Does not need “when pressed”