

I'm not robot!

This LEGO MINDSTORMS EV3 Sumo Bot uses three EV3 Large Motors, two of which have "triple torque" due to gearing. In the false-colored picture, the pink 12-tooth gear that is directly connected to the EV3 Large Motor touches the turquoise 36-tooth gear. This "gearing down" increases its torque three times, for increased pushing power. The center motor operates the yellow "flipped" arms for upending opposing robots in a Lego Sumo or Battlebot competition. Parts from the EV3 45544 Education Set are supplemented by the third motor and EV3 Color Sensor (for detecting the edge of a Leg Sumo arena). You can use your spare parts to make the flipper larger; with it in the "up" position, it measures ~7.5" (~22x22 studs). The EV3 Ultrasonic Sensor detects the opposing robot, or it can be replaced by a MindSensors "Smart Eyes" sensor for SuGObot competitions. Designed by: David Luders Building Instructions for Core Set Models Building Instructions for Core Set Models Program Descriptions for EV3 Core Set Models Building Instructions for Robot Education Base Model Instructions for Expansion Set Models Building Instructions for Expansion Set Models Program Descriptions for Expansion Set Models Building Instructions for Design Engineering Projects Building Instructions for Space Challenge Set Models Building Instructions for Science Models Program Descriptions for EV3 Science Pack ev3dev python. This example project shows how you can use the GyroSensor < Tank Bot > to make accurate turns. Depending on which EV3 Brick button you press, the robot drives in Triangular, Square, or Hexagonal. Building instructions can be found at [this link](#). To find all building instructions for the Expansion Set Models, or use this link to go to the Tank Bot directly. Figure 33: Tank Bot Example program #!/usr/bin/ev3dev/python """ Example LEGO® MINDSTORMS® EV3 Tank Bot Program """ This program requires LEGO® EV3 MicroPython v2.0. Download. Building instructions can be found at [this link](#). From pybricks_hub import EV3Brick from pybricks.ev3devices import Motor, GyroSensor from pybricks.parameters import Port, Direction, Button from pybricks.tools import wait from pybricks.robots import DriveBase from pybricks.media.ev3dev import ImageFile # Initialize the EV3 brick. ev3 = EV3Brick() # Configure 2 motors on Ports B and C. Set the motor directions to # counterclockwise, so that positive speed values make the robot move # forward. These will be the left and right motors of the Tank Bot. left_motor = Motor(Port.B, Direction.COUNTERCLOCKWISE) right_motor = Motor(Port.C, Direction.COUNTERCLOCKWISE) # The wheel diameter of the Tank Bot is about 54 mm. WHEEL_DIAMETER = 54 # The axle track is the distance between the centers of each of the # wheels. This is about 200 mm for the Tank Bot. AXLE_TRACK = 200 # The Driving Base is comprised of 2 motors. There is a wheel on each # motor. The wheel diameter and axle track values are used to make the # motors move at the correct speed when you give a drive command. robot = DriveBase(left_motor, right_motor, WHEEL_DIAMETER, AXLE_TRACK) # Set up the Gyro Sensor. It is used to measure the angle of the robot. # Keep the Gyro Sensor and EV3 steady when connecting the cable and # during start-up of the EV3. gyro_sensor = GyroSensor(Port.S4) # Initialize the steering and overshoot variables. steering = 60 overshoot = 5 def right_angle(): # This function drives the robot forward, turn a right angle, drive # forward again, and then turn 180 degrees to drive back along the # same path and return to its initial position. # Reset the Gyro Sensor angle. gyro_sensor.reset_angle(0) # Drive forward for 750 millimeters robot.straight(750) # Turn clockwise until the angle is 90 degrees. robot.drive(0, steering) ev3.speaker.beep() while gyro_sensor.angle() < 90 - overshoot: wait(1000) # Drive forward for 750 millimeters robot.straight(750) # Turn clockwise until the angle is 180 degrees. robot.drive(0, -steering) ev3.speaker.beep() while gyro_sensor.angle() > 180 + overshoot: wait(1000) # Drive forward for 750 millimeters robot.straight(750) # Turn clockwise until the angle is 270 degrees. robot.drive(0, steering) ev3.speaker.beep() while gyro_sensor.angle() < 270 - overshoot: wait(1000) # Drive forward for 750 millimeters robot.straight(750) # Turn clockwise until the angle is 360 degrees. robot.drive(0, steering) ev3.speaker.beep() while gyro_sensor.angle() > 360 - overshoot: wait(1000) # Drive along the polygon path. for side in range(1, sides + 1): target_angle = side * angle - overshoot # This function drives the robot along a polygon path. It uses the # number of sides to calculate the angle to turn to, and the length # to calculate the time to drive straight. # Reset the Gyro Sensor angle. gyro_sensor.reset_angle(0) # Calculate the angle to turn to and the time to drive straight. angle = 360 / sides # Drive straight. robot.straight(length) # Turn clockwise until the angle equals the target angle. robot.drive(0, steering) ev3.speaker.beep() while gyro_sensor.angle() < target_angle - overshoot: wait(1000) # This is the main part of the program. It is a loop that repeats # endlessly. # # First, it waits until any Brick Button is pressed. # Second, it displays the chosen pattern on the screen. # Finally, it drives in the chosen pattern. # Then the process starts over, so another pattern can be chosen, while True. # Display a question mark to indicate that the robot should await # instructions. ev3.screen.load_image(ImageFile.QUESTION_MARK) # Wait until any Brick Button is pressed, while not any(ev3.buttons.pressed()): wait(1000) ev3.screen.clear() # Respond to the Brick Button press. Display the chosen pattern on # the screen and drive in that pattern, if Button.UP in ev3.buttons.pressed(): # Drive in a right angle. ev3.screen.draw_text(30, 50, "Right Angle") wait(1000) right_angle() if Button.LEFT in ev3.buttons.pressed(): # Drive in a triangle shape. ev3.screen.draw_text(30, 50, "Triangle") wait(2000) polygon(3, 850) if Button.CENTER in ev3.buttons.pressed(): # Drive in a square shape. ev3.screen.draw_text(30, 50, "Square") wait(2000) polygon(4, 700) if Button.RIGHT in ev3.buttons.pressed(): # Drive in a pentagon shape. ev3.screen.draw_text(30, 50, "Pentagon") wait(2000) polygon(5, 575) if Button.DOWN in ev3.buttons.pressed(): # Drive in a hexagon shape. ev3.screen.draw_text(30, 50, "Hexagon") wait(1000) © Copyright 2019-2020 The LEGO Group. All rights reserved. Built with Sphinx using a theme provided by Read the Docs. LEGO, the LEGO logo, MINDSTORMS and the MINDSTORMS EV3 logo are trademarks and/or copyrights of the LEGO Group.



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