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The Robot Program Episode 009: Getting Six to Move

This lesson will demonstrate how to connect to and move the Revolution Six robot. Follow along with The Robot Program Episode 009: Getting Six to Move. At the end of this lesson, the reader will have learned how to connect to the robot using Wi-Fi, how to move the robot, how to track the default color, and how to use the Auto Position and Soundboard controls to execute movements and routines.

View the video episode here: <u>https://www.ez-robot.com/Tutorials/Lesson/35</u>

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S Professor E's Overview

This lesson demonstrated how to connect to **Six** for the first time.

Remember to start with a fully charged robot. Load the **Example Project** for **Six** and connect to the robot using Wi-Fi.

Use the **Auto Position** and **Soundboard** controls to execute pre-built actions and routines. Use the **RobotScratch** workspace to create a linear program. In the **Camera** tab, enable color tracking and the robot will track the color red. Remember to disconnect, power off, and charge the robot when finished.





Disconnect from the battery charger.





Power on the robot. Select the **EZ-B v4** Wi-Fi connection.





Open EZ-Builder. Select Example Projects and load the Six project.





See how to build **Six** in **Episode 008**.





Select **Connect to EZ-B**. The robot should move into the calibration position.





Use the arrow keys of Auto Position to move Six.





Six can balance on a minimum of three legs.





Scroll through **Auto Position** actions to select the **Rock Back and Forth** command. Click the **Execute** button.





Try executing another pre-built command. Select and execute **Wave**.





In the **Soundboard** control, scroll to the dance theme and select the **Play** button.





Use the **Microphone** control to record and playback sounds.





RoboScratch can be used to create custom programs.





Build programs by selecting actions.





Click on **Start** to run the program.





Click on **Source Code** to view the generated code. Learn more about **RoboScratch** in **Episode 006**.





In the Camera control, click on Tracking and select the Color checkbox.





By default, ${\bf Six}$ will track the color red. Turn off tracking when finished.





Remember to disconnect, power off, and connect to the battery charger when finished.





Question #1 What letters are always at the start of the Wi-Fi connection name?
Question #2 What is the minimum number of legs that Six needs for balance?
Question #3 What is the name of the control panel used to execute pre-built commands?
View the answers to this quiz at www.ez-robot.com/Tutorials/Lesson/35.
Visit www.TheRobotProgram.com for more episodes.