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The Robot Program Episode 012: Getting AdventureBot to Move

This lesson will demonstrate how to connect to and move the Revolution AdventureBot robot. Follow along with The Robot Program Episode 012: Getting AdventureBot to Move. At the end of this lesson, the reader will have learned how to connect to the robot using Wi-Fi, how to track color, access the the RoboScratch workspace for programming, and how to execute wheeled movement.

View the video episode here: https://www.ez-robot.com/Tutorials/Lesson/83

Last Updated: 5/29/2018

Professor E's Overview

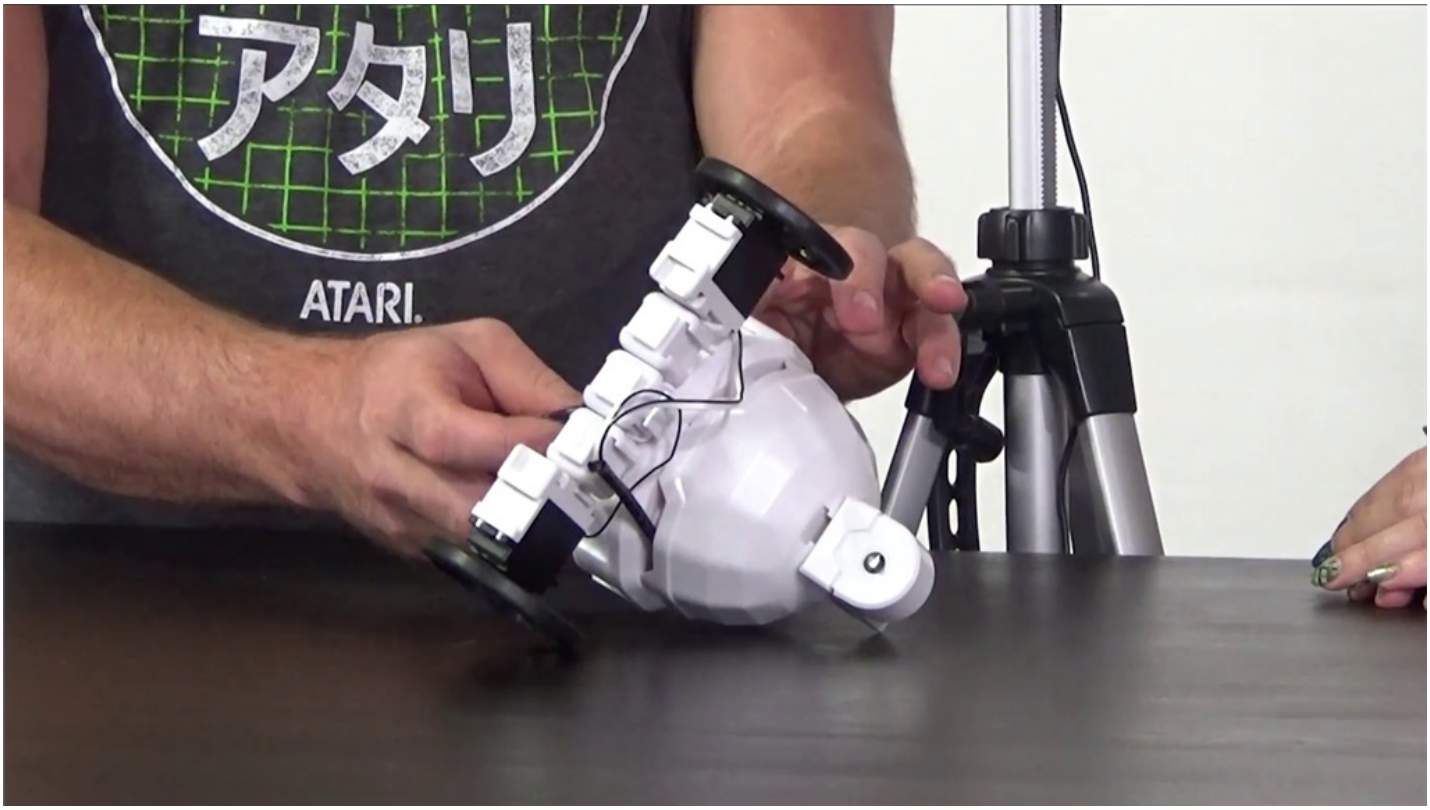
This lesson demonstrated how to connect to **AdventureBot** for the first time.

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

AdventureBot is a wheeled robot. Use the arrow keys and sliders within the **Servo Movment Panel** to move the robot. Color tracking can be enabled using the **Camera** control. The **RoboScratch** workspace can be used to create custom programs. Remember to disconnect, power off, and charge the robot when finished.

Step 1

Learn how to connect to **AdventureBot** for the first time. Disconnect from the battery charger.

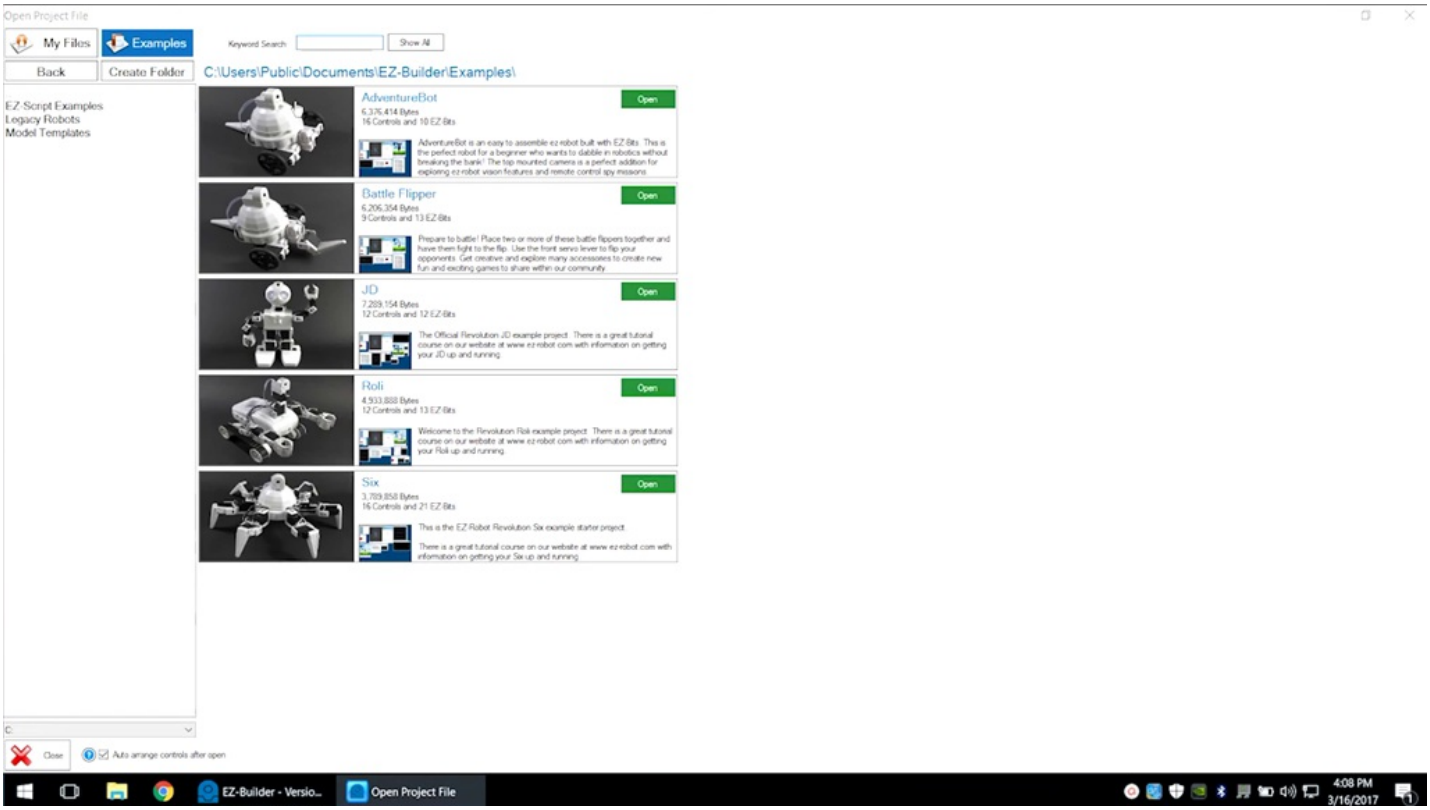


Step 2

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

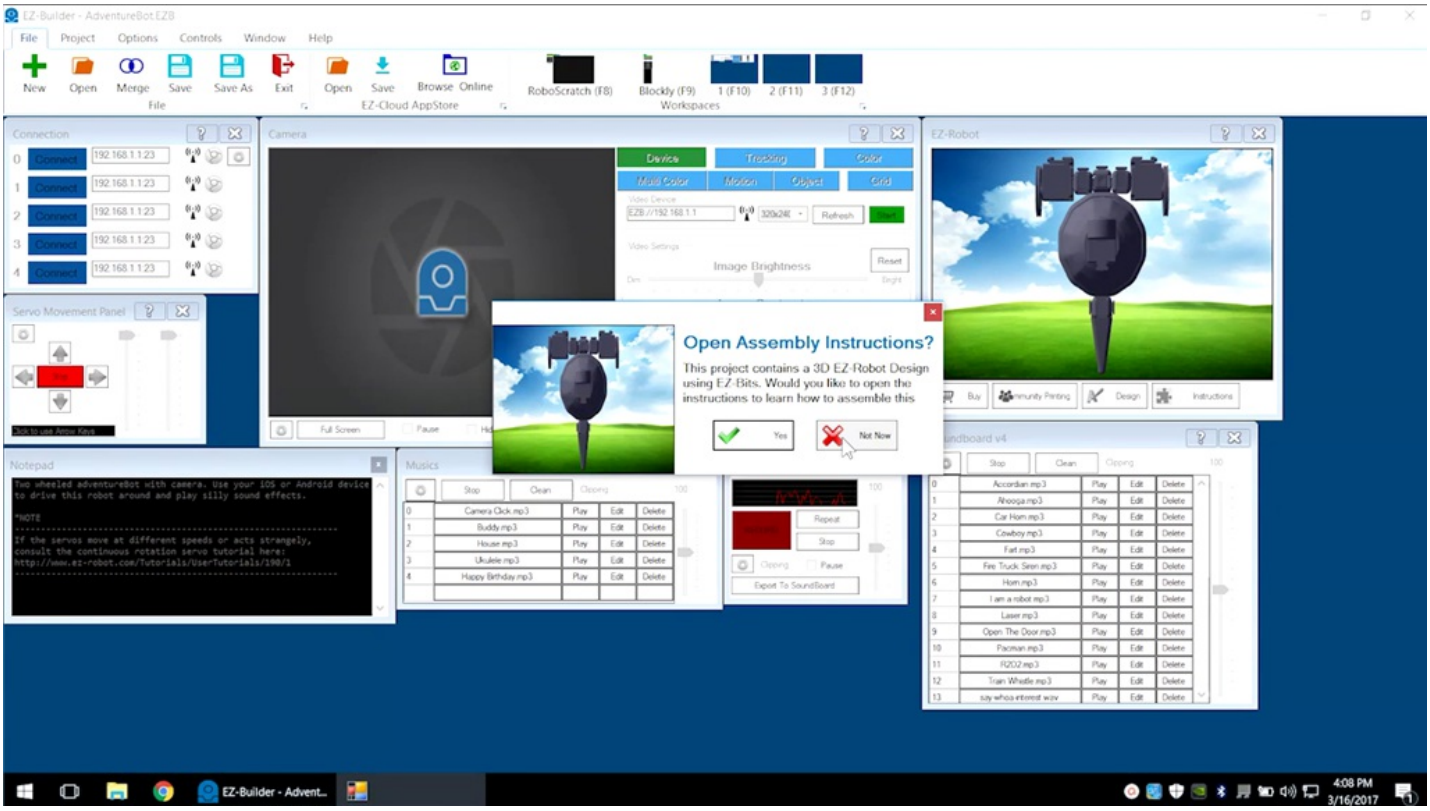
Step 3

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



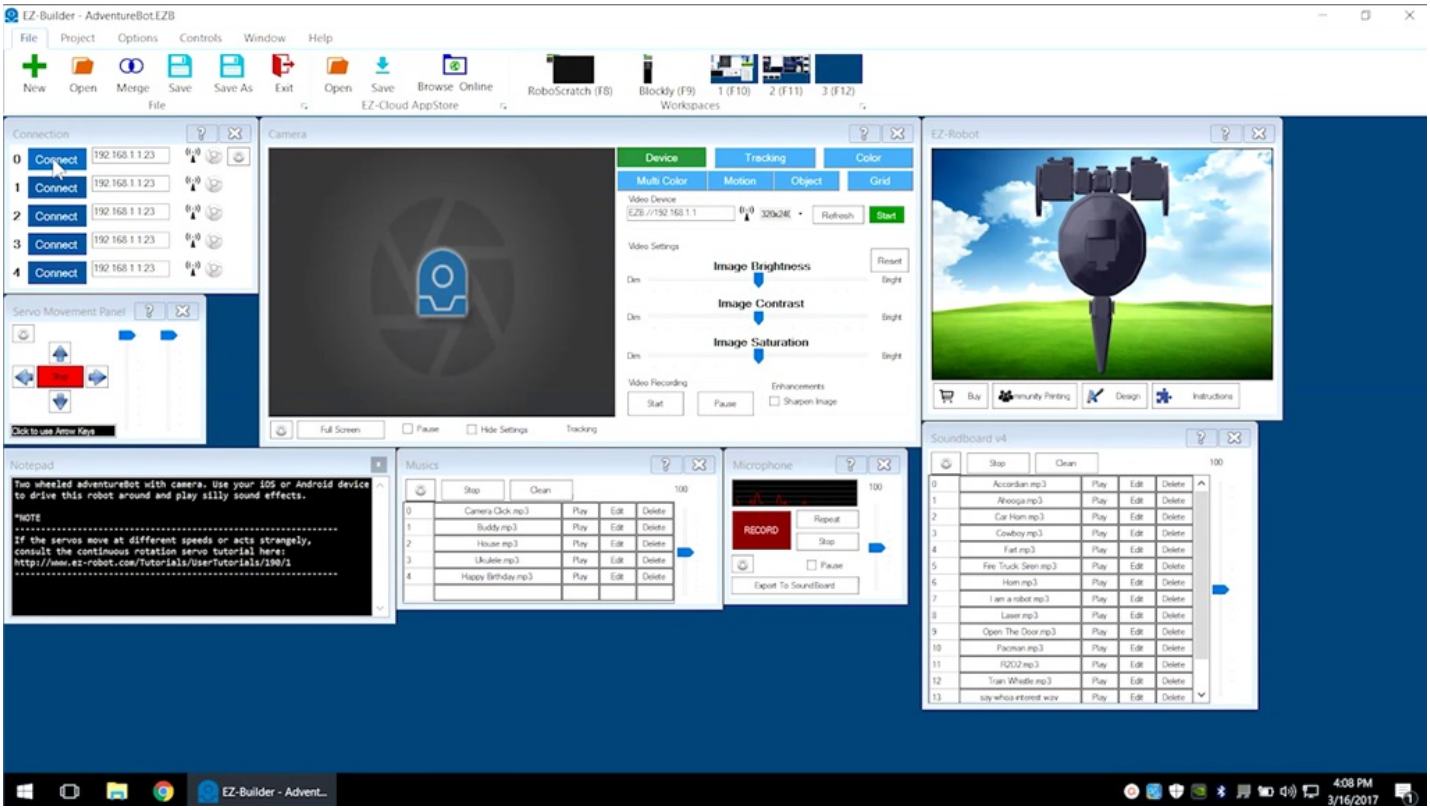
Step 4

See how to build **AdventureBot** in **Episode 010**.



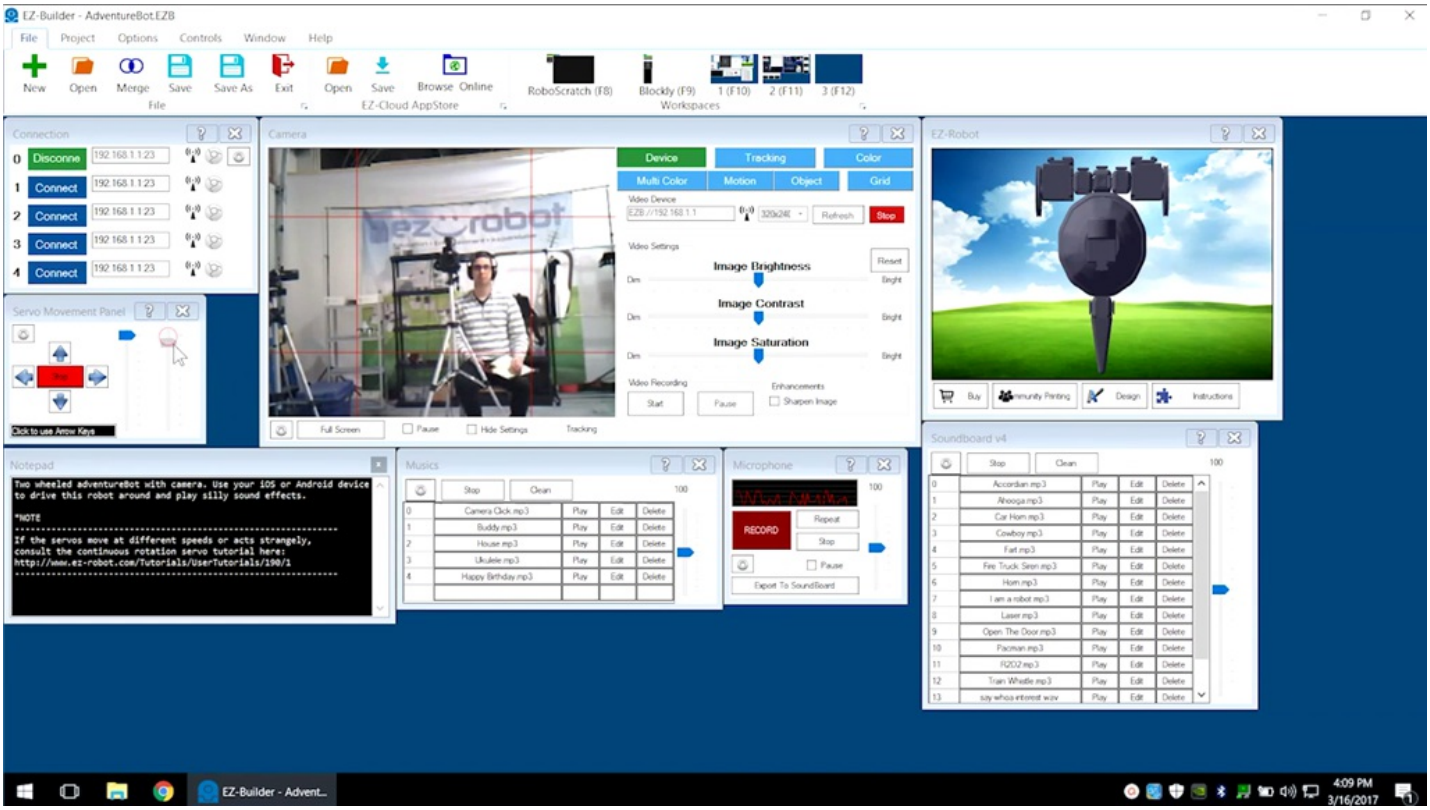
Step 5

Select **Connect to EZ-B** and listen for the chime.



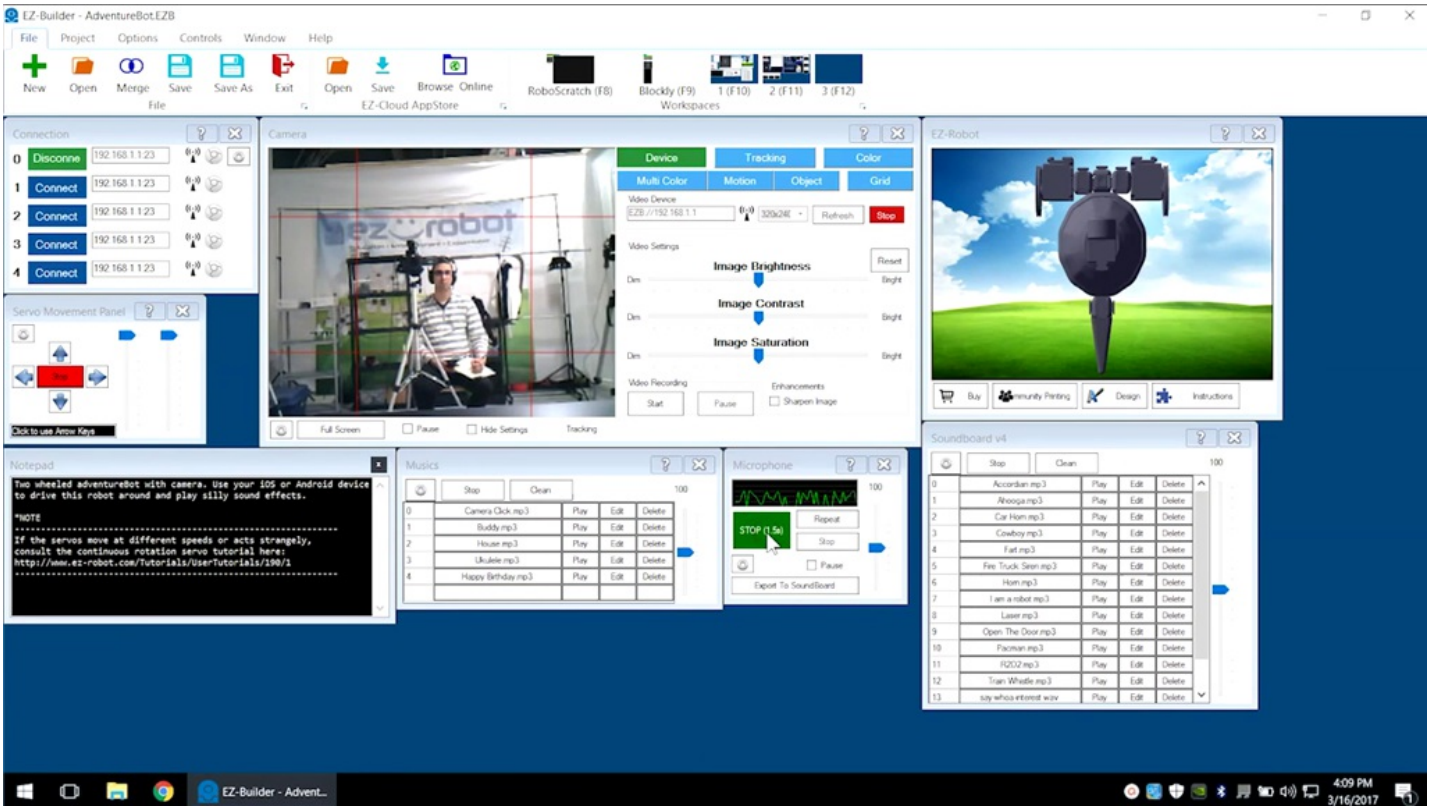
Step 6

Use the arrow keys and sliders of the **Servo Movement Panel** to control wheel movement.



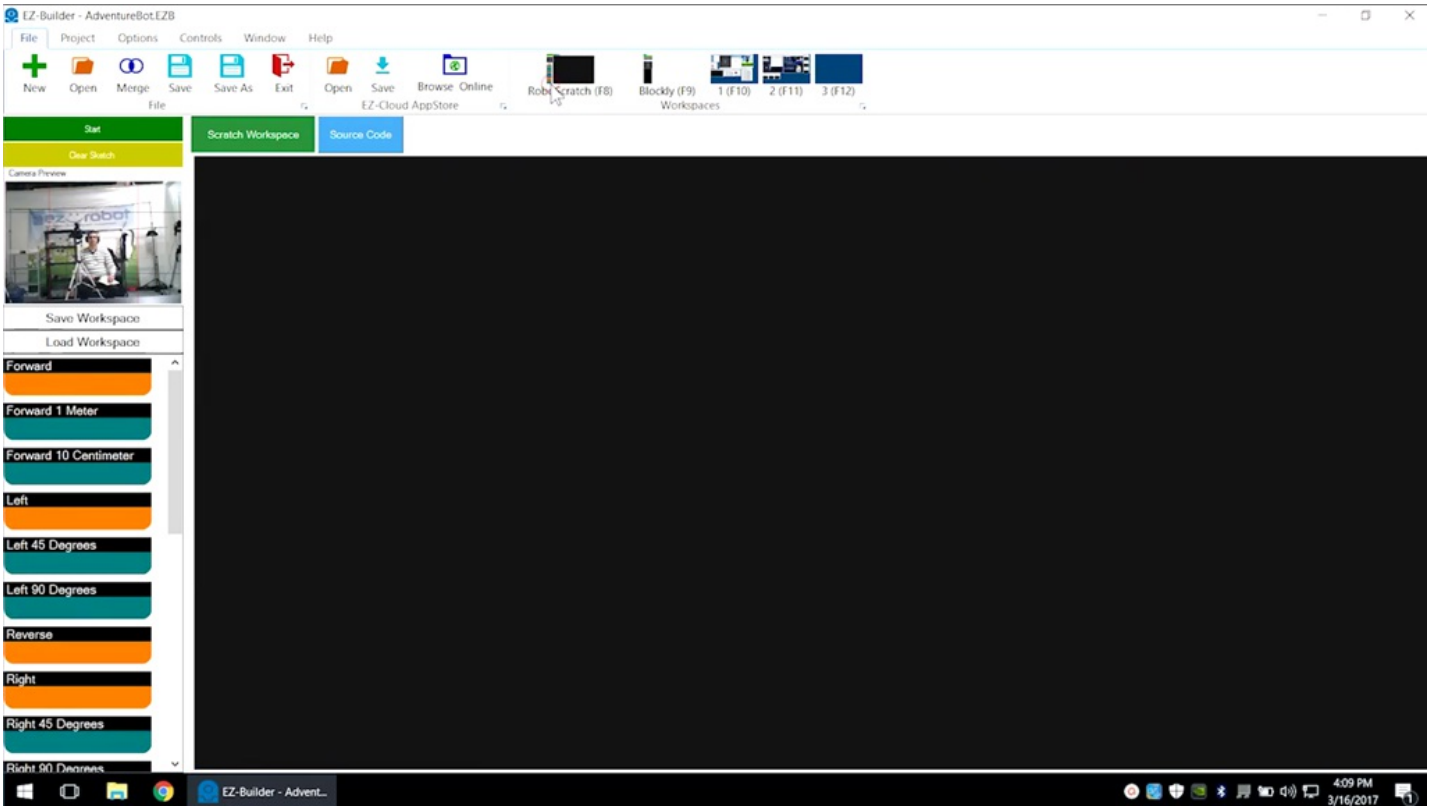
Step 7

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



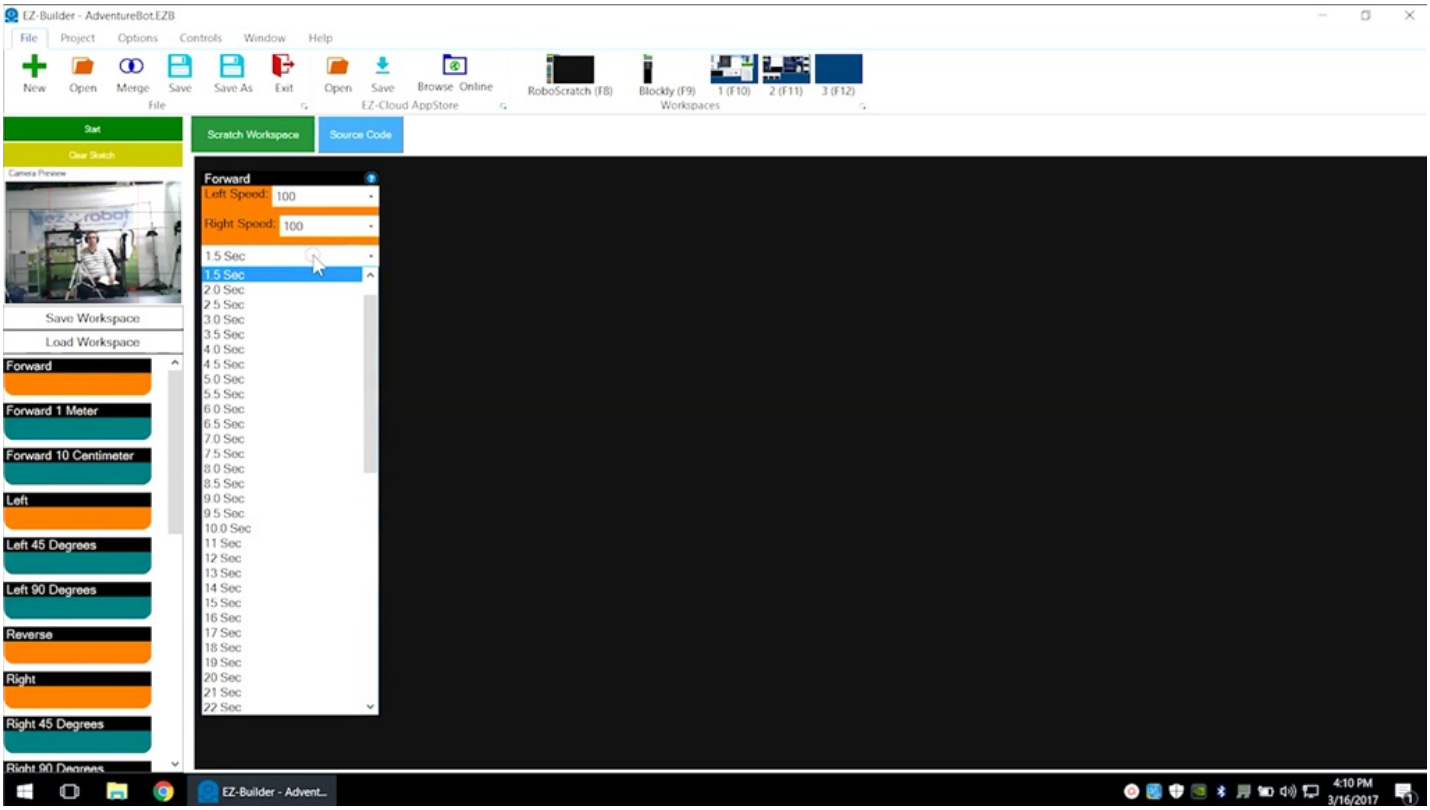
Step 8

RoboScratch can be used to create custom programs.



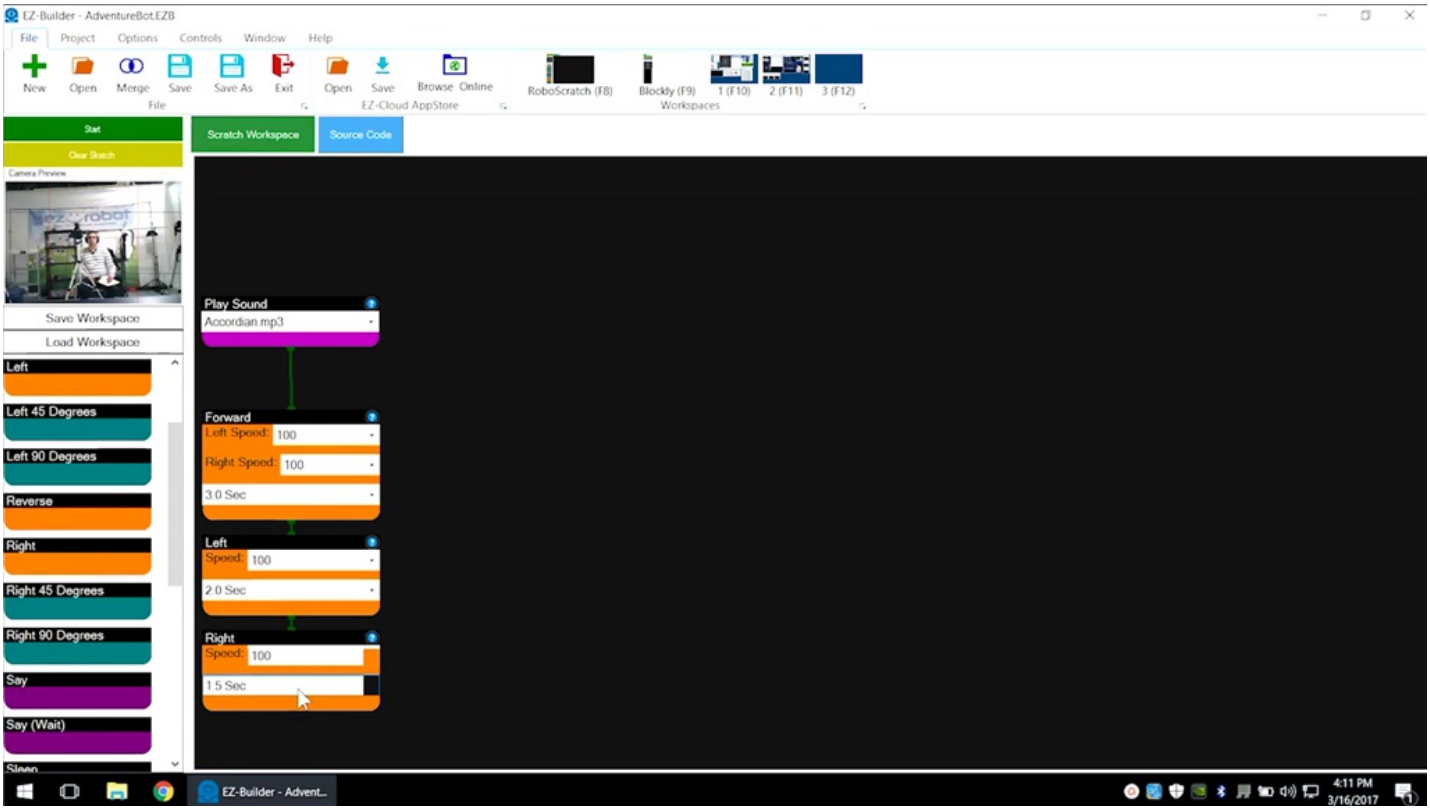
Step 9

Build programs by selecting actions.



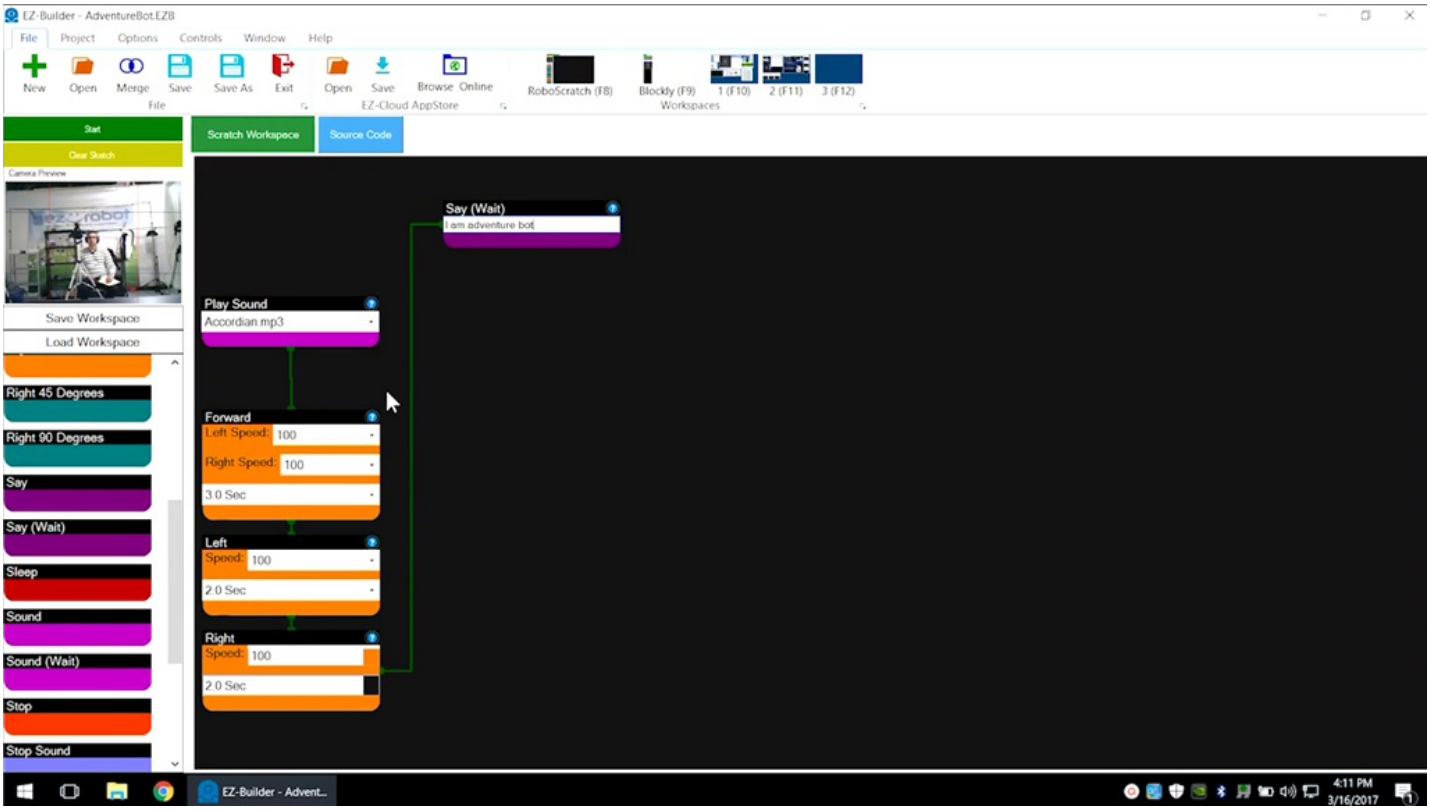
Step 10

Learn more about **RoboScratch** in **Episode 006**.



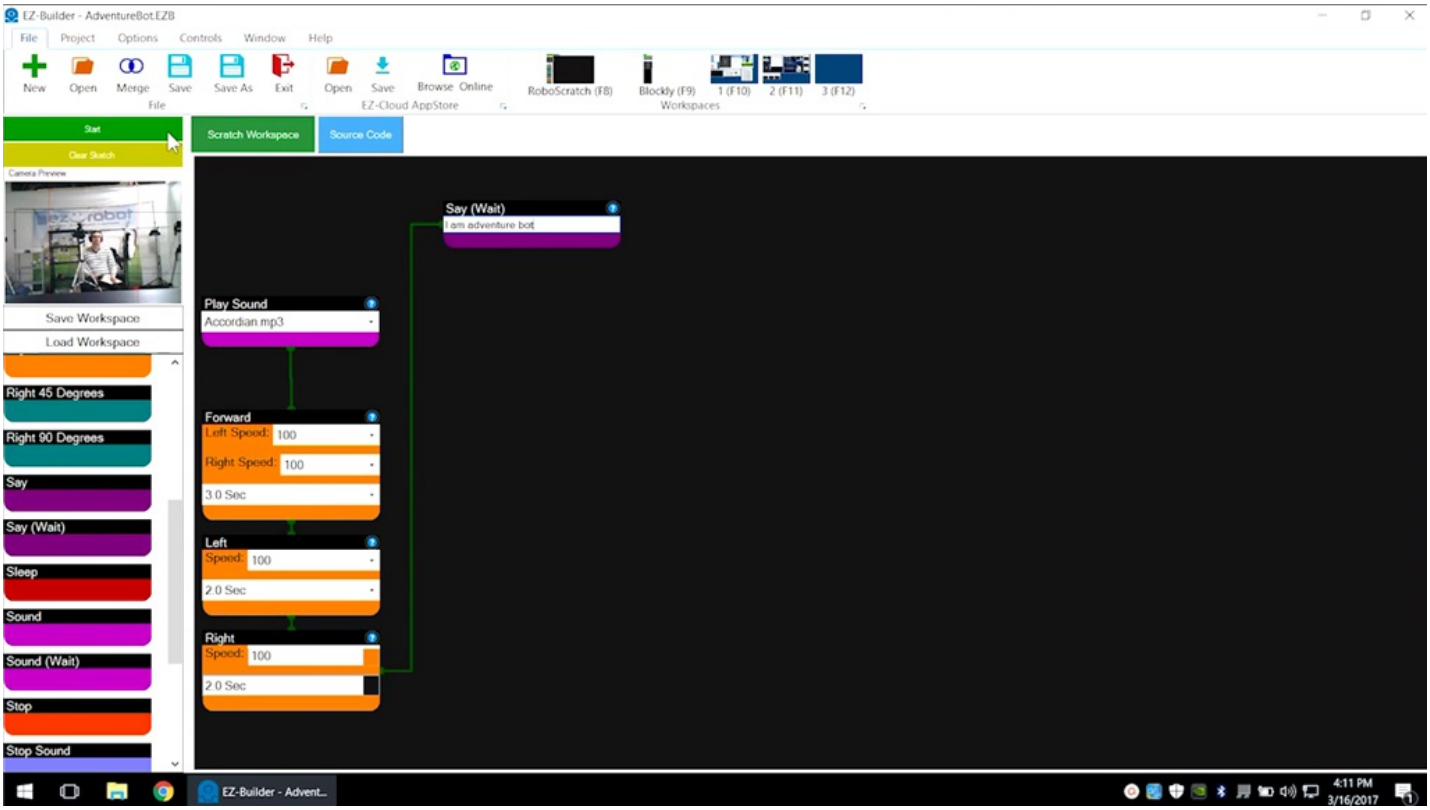
Step 11

Follow the green line to see the action execution order.



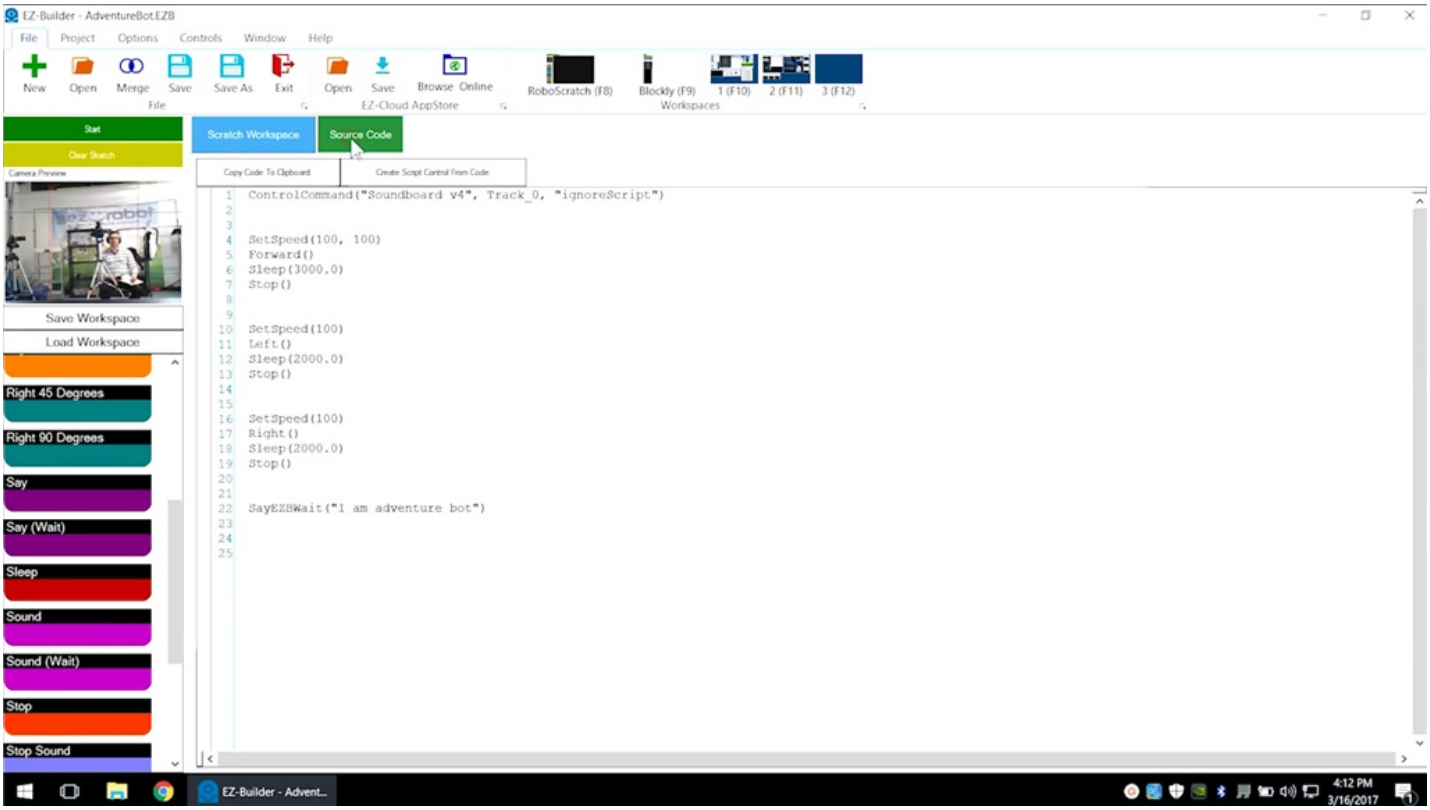
Step 12

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



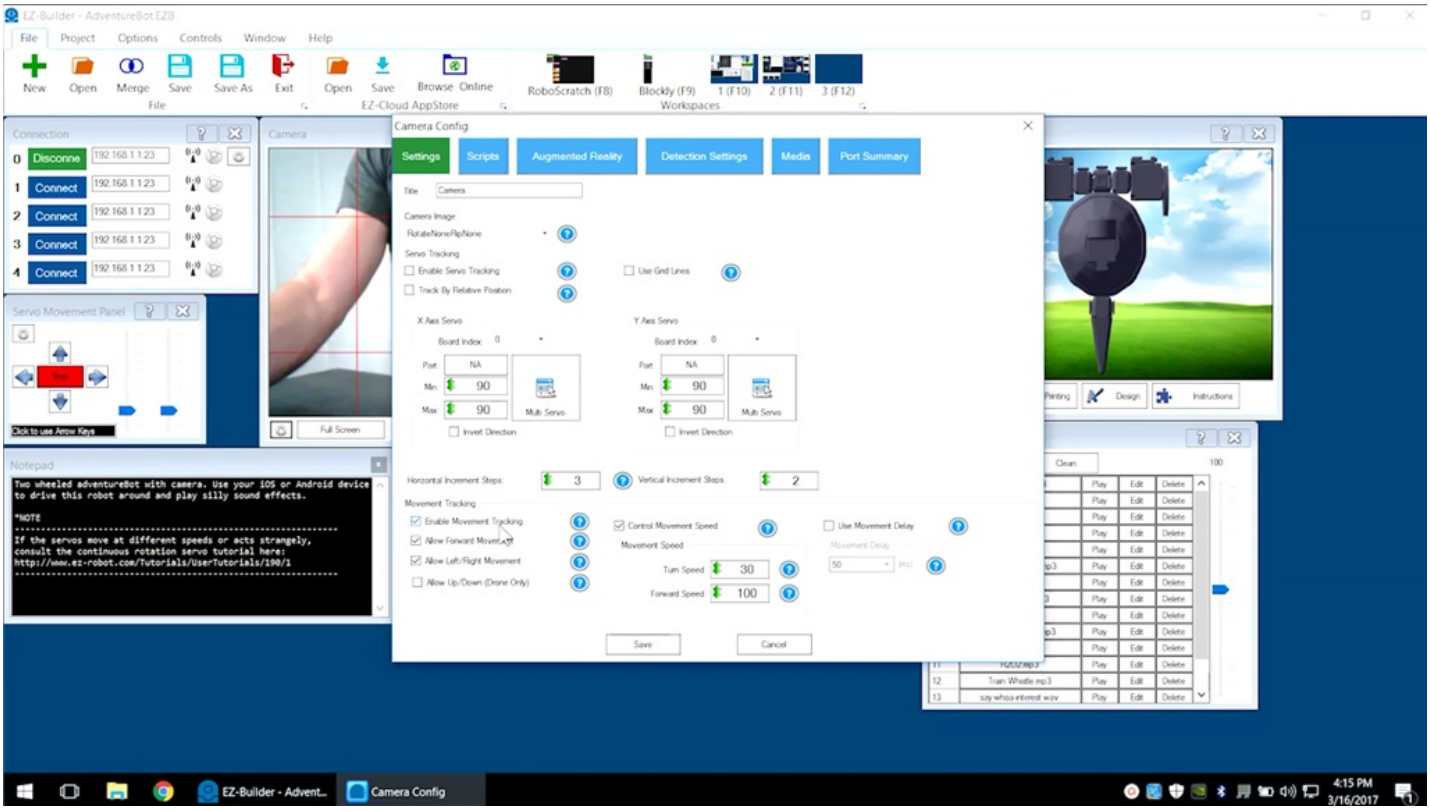
Step 13

Click on **Source Code** to view the generated code.



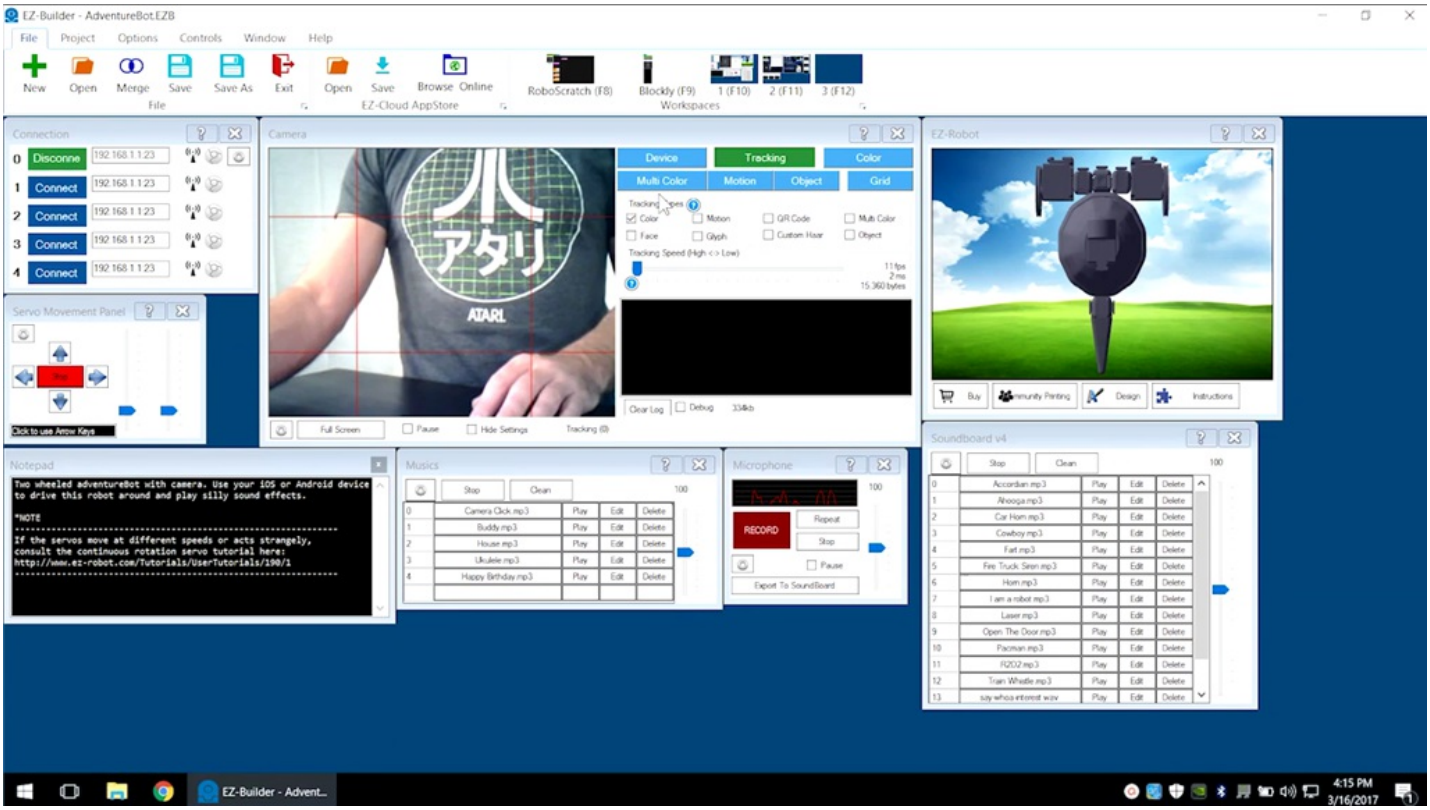
Step 14

In the **Camera** control, click on the **Gear Icon** and select **Enable Movement Tracking**.



Step 15

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

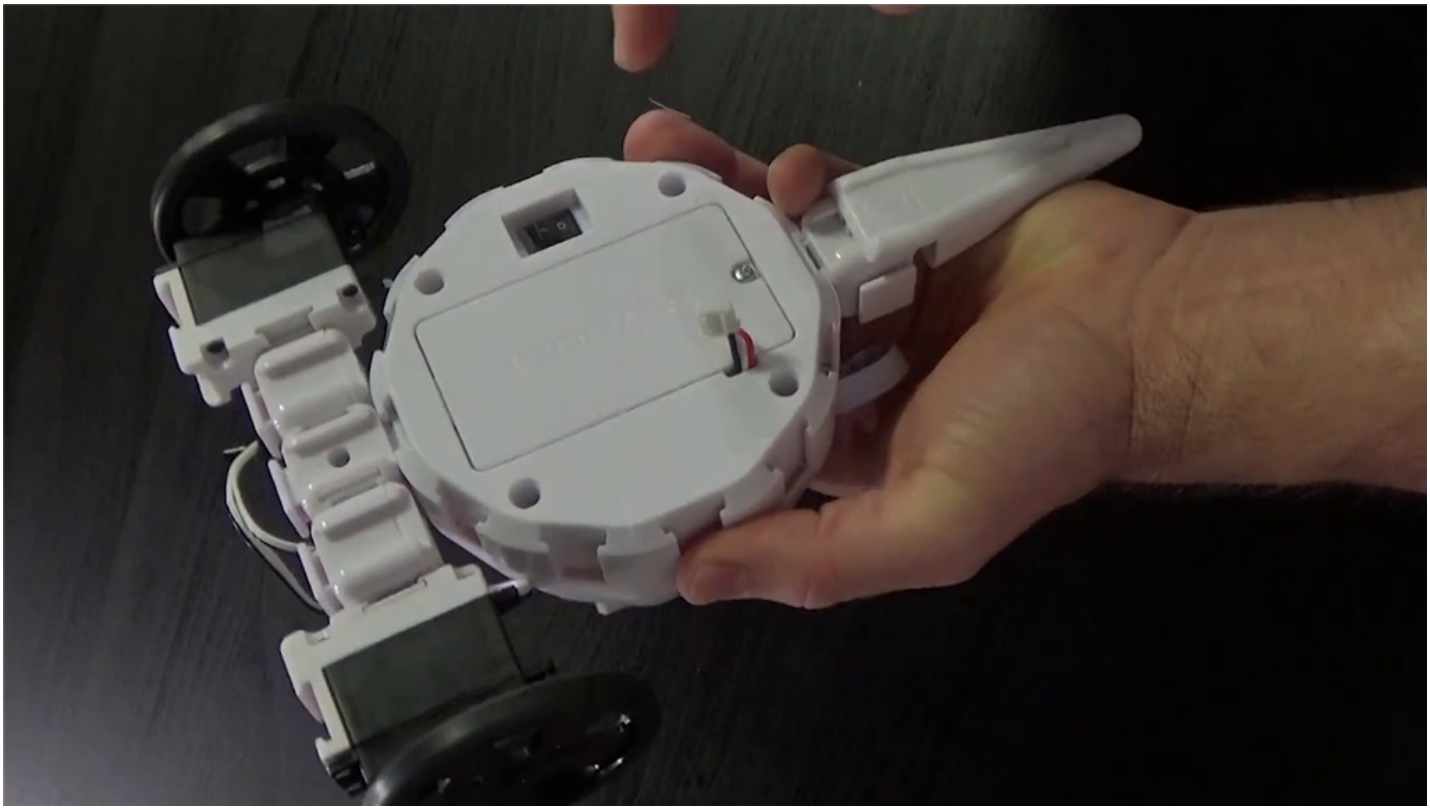


Step 16

By default, **AdventureBot** will track the color red. Turn off tracking when finished.

Step 17

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



Quiz

Question #1 What letters are always at the start of the Wi-Fi connection name?

Question #2 Which control panel is used for AdventureBotâ€™s movement?

Question #3 What is the default color for camera color tracking?

View the answers to this quiz at www.ez-robot.com/Tutorials/Lesson/83.

Visit www.TheRobotProgram.com for more episodes.