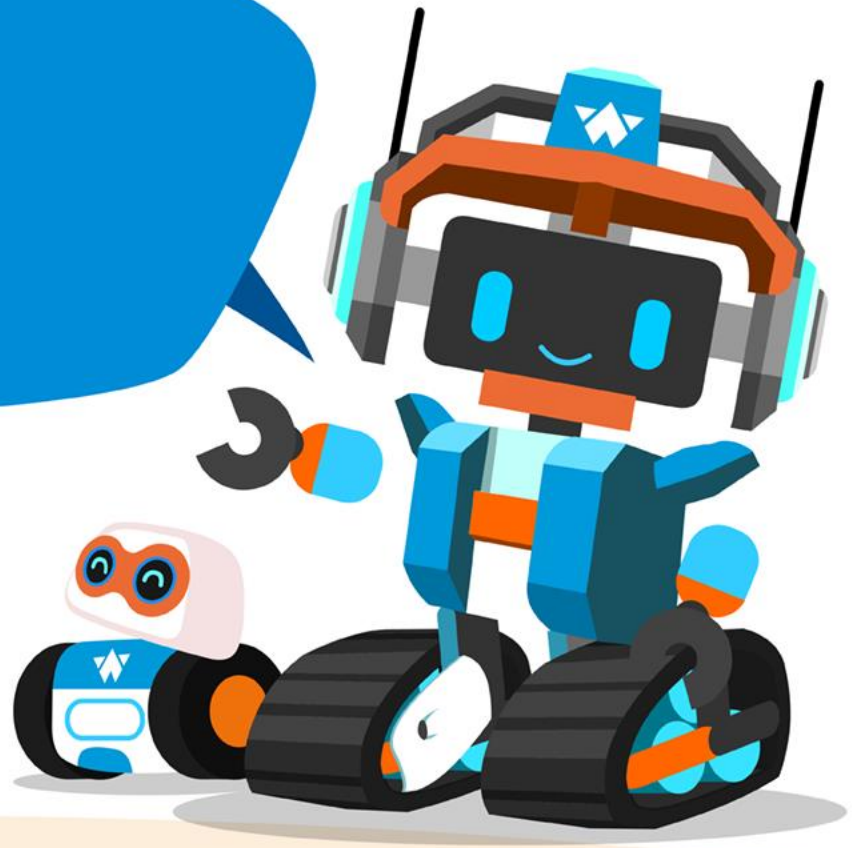
ENJOY AI 2024

INTERSTELLAR JOURNEY

CLOSING CEREMONY OF SPORTS

Robot Test



Objectives:

1. Testing the stability of the robot.
2. Testing the parameter differences of the robot.
3. Testing the success rate of the robot.

5+

Review

Hi everyone, in the last class, we completed our learning on custom blocks. Let's take this opportunity to review it together.

Review

Custom Block

1. What are the naming rules for custom blocks?
2. What are the types of custom blocks?
3. How to use parameters in custom blocks?

Challenges

Challenges

We have completed the design of the tools required for programming and task completion. Now, we need to check the success rate of each task.

Review

Robot Rating

1. Check the robot’s body structure for any unreasonable aspects.
2. Are the position and height of the grayscale sensor appropriate?
3. Is the wiring at the plug-in point appropriate, and does it affect the functioning of the machine?

Analysis

Check the body structure

Why do we need to check the robot’s body structure and wiring?

Analysis

Check the body structure

Because during the operation of the machine, there will be many turns involved. If the robot’s body is too long or wide, or if the length of the wires is excessive, it can easily lead to steering failure or getting stuck at the front or rear. This is an issue that we need to pay attention to.

Analysis

Let's try to test the success rate of our fireworks display!

Analysis

What are the most common problems we encountered during the test?

Do you have any solutions?

Analysis

In the competition, we may need to modify parameters when debugging our robot. This helps our robot adjust to different tasks.

Analysis

Modifying parameters helps achieve fine-tuning or overall adjustment.

Let’s test your robot’s success rate in completing the tasks.

Then, let’s modify the parameters based on the test results.

Try it out!

Analysis

Challenges accepted!

Congratulations! You have tested the robot’s performance on the first task.
Now, let's continue with the other tasks!

Give it a go!

See you next time!