



Qoopers series course

Section 5 《Captain Alloy B》

Curriculum objectives

Knowledge and skill

 Learn about intermediate programming of Qoopers, wield remote control model and matrix screen model of Captain Alloy;
Complete programming that Captain Alloy leave volcanic group;

Process and methods

1. Exercise students' logical thinking ability through complete tasks;

Emotional attitude and values

1.Train students' attitude towards doing things with dispassion by completing tasks of Captain Alloy.



Curriculum introduction

In a task of rock exploration, Captain Alloy get into the volcano group of Metal Block planet carelessly, the volcano, which may spurt at any time, threaten. the safety of Captain Alloy, so we need to leave here as quickly as possible and reach safe place.

Robob

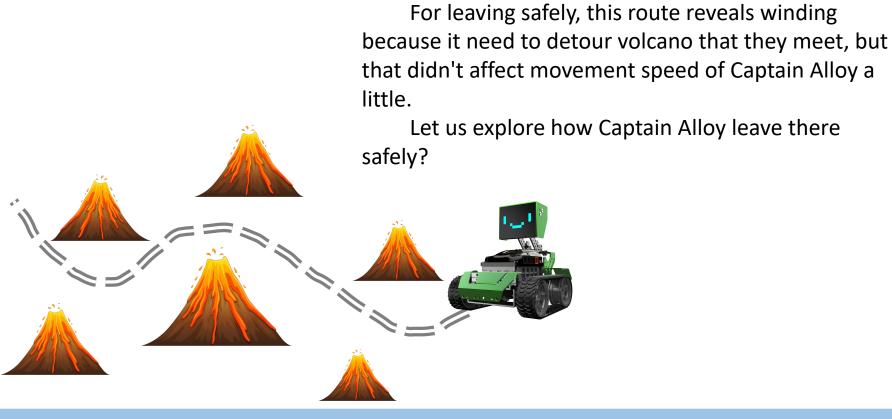
Curriculum introduction





Facing danger, the calm and cool-headed Captain Alloy didn't show any fluster, instead it observe terrain around it carefully and plan a route that can quickly evacuate from there on the basis of volcano terrain.

Curriculum introduction



Roboblog

Knowledge explanation

Programming:

1.turn on programming application of mobile phone;

2.Click on the icon of "my application;

3. Choose "create" in intermediate programming, and

named the application.



Primary programming	My application	Recommer	nded applications	s More>
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Create		Cre	ate	
		Qoopers		
Intermediate program	nming			More>
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Create		Cancel	Confirm	

Robc

Interface of intermediate programming:

1. Click the icon of creating Qoopers;

2.Programming interface includes programming area, icon module area, bluetooth area, operation icon, tool icon.



Robo

Knowledge explanation

Learn about start module:

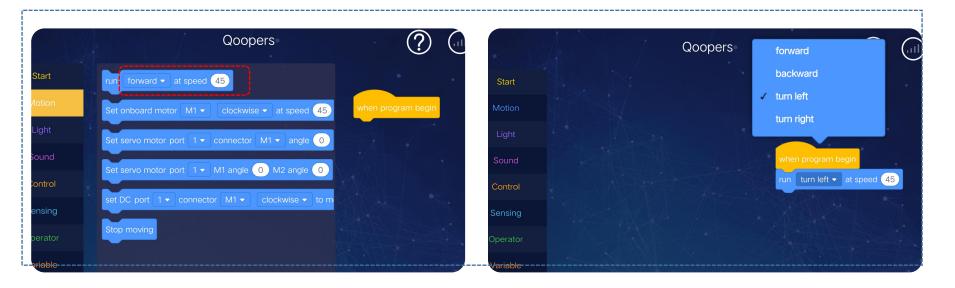
Every part procedure only have one start icon, which is the necessary icon for every procedure; click on start module, drag icon of "when program start" to programming area with fingers.

Robo





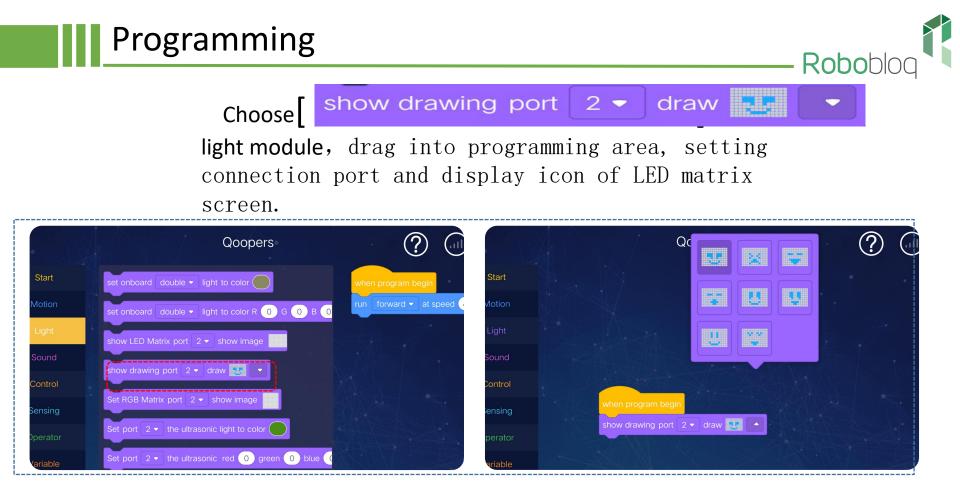
The leaving route achieved by going straight and turning of Captain Alloy In programming, choose [run forward - at speed 45] in the motion module, drag into programming area, setting direction and speed of motion.





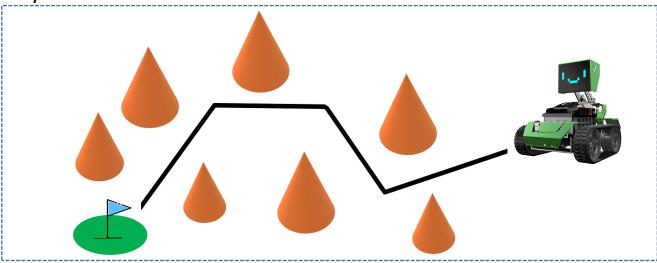


LED matrix screen consists of 140 LED lights, according to signal, LED light on matrix screen will shining or not shining when use connection line to connect mainboard and the port of LED matrix screen, and it will appear pattern that you want obeying changes of command.



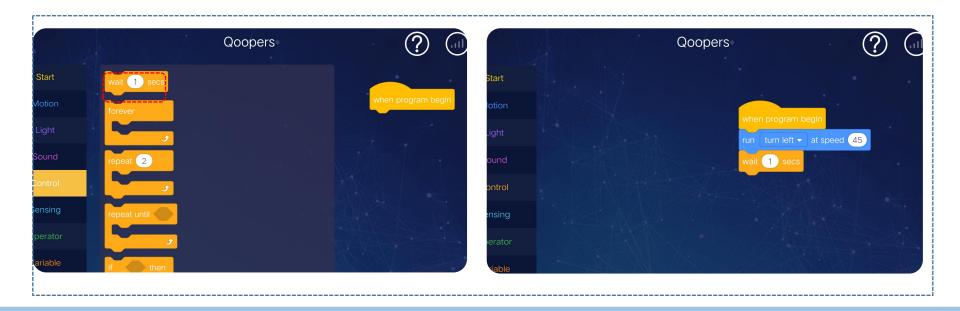
Task requirements: After Captain Alloy set out from beginning, it will move forward or turning to reach safe area according to route direction, finally it will appear pattern of happy on LED matrix screen.

Route indication, Captain Alloy need to go through the process of advancingturning right- advancing-turning left-advancing-turning left-advancing, finally leave safely.





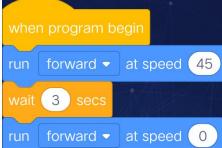
In programming, choose control module, and drag. into provait 1 secs ea. Click on icon figure to set time span with seconds.





It need to be noticed that control Captain Alloy's advancing distance and turning angle with time, the more time uses, the farther Captain Alloy advance and the larger turning angle would be.









Programming on the basis of Captain Alloy's route, in actual operation, it can debug the time of advancing and turning according to different fields.

After programming, connect Captain Alloy with bluetooth, pressing operation button to control its action to leave the dangerous volcano group.





In addition to writing procedure to control action, Qoopers have another function that remote control Qoopers' action.

In application interface, click on icon of "Qoopers" and choose Captain Alloy.

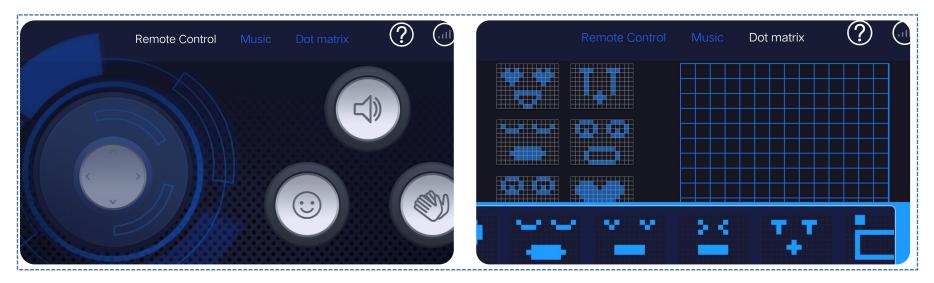


Extends



Under remote control model, left screen could directly control the action of Captain Alloy, right button could change the pattern of LED matrix screen;

It can use diverse brow and custom brow, dynamic brow in dot screen model.



Extends



The usage prerequisite of remote control model and matrix screen model of Captain Alloy is that connect bluetooth.

After connect successfully, using new skill of Captain Alloy control it to leave volcano group.





1.In programming, do you have any other ideas that could change pattern of matrix screen?2.Are your procedure helped Captain Alloy leaving

volcano group at the end?



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