WhalesBot

CONTACT :

WhalesBot Technology (Shanghai) Co., Ltd.

Web: https://www.whalesbot.ai

Email: support@whalesbot.com

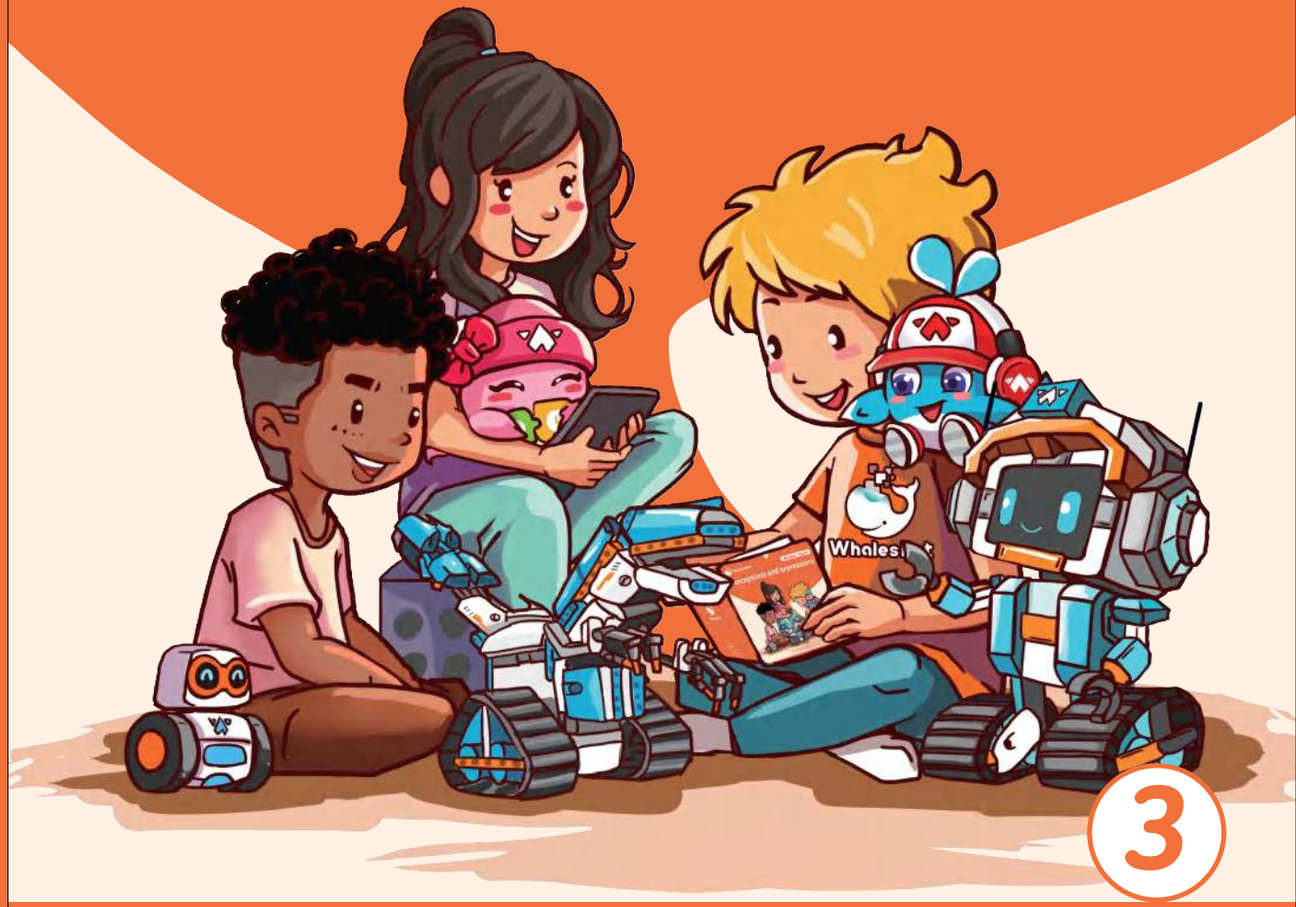
Tel: +008621-33585660

Floor 7, Tower C, Weijing Center, No. 2337, Gudai Road, Shanghai

WhalesBot

Whales Team

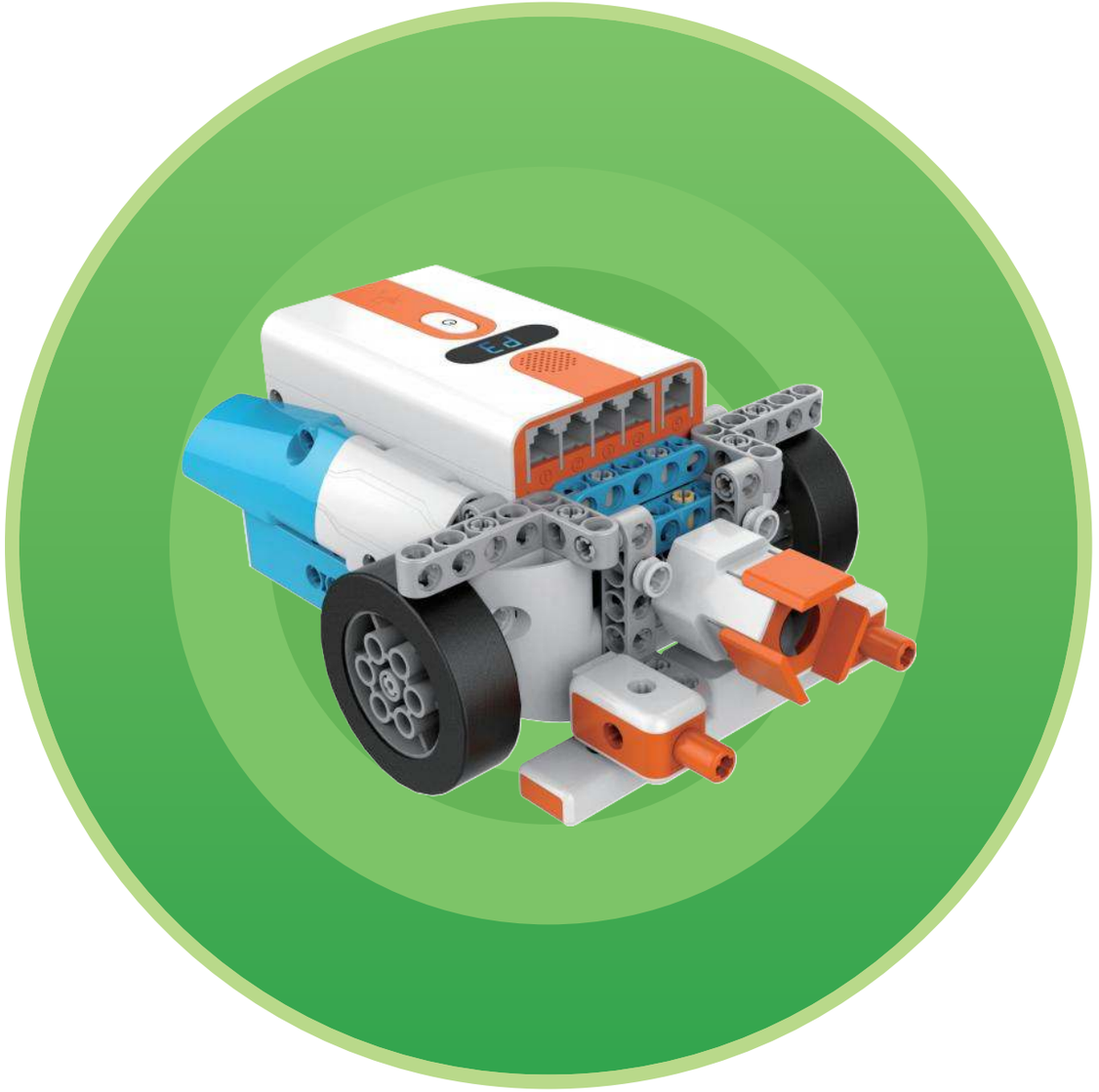
Perceptions and expressions



3

Explorer

Project Launch



KNOWLEDGE CARD:

Understanding Sensors.



Touch sensor: When the button is pressed, it transmits information to the host for controlling subsequent programs. In the program, it is generally used as a judgment condition in wait until command or repeat until command.

Wait until the touch switch is pressed:



Repeat until the touch switch is pressed:





BUILDING GUIDE:

1 Download / Install / Open Register the mobile app

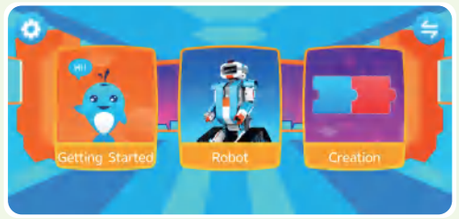
Scan the code to download the app

WhalesBot app



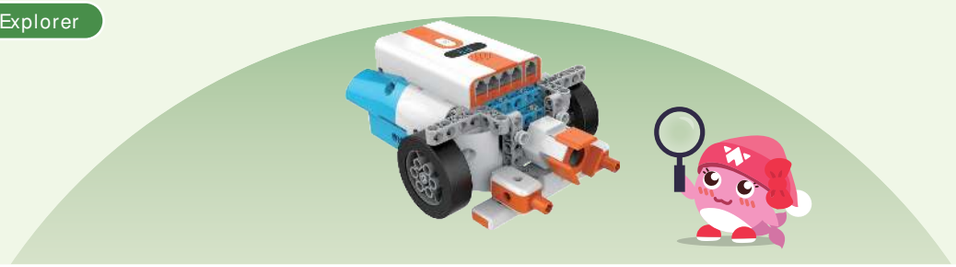
2 Select the corresponding model / Robot





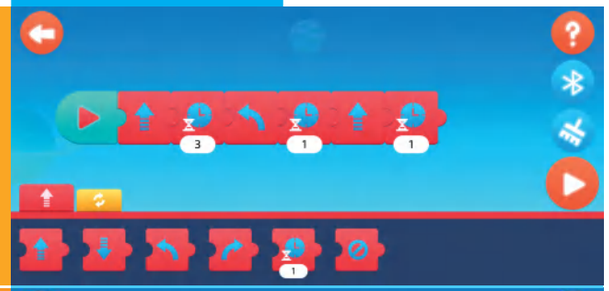
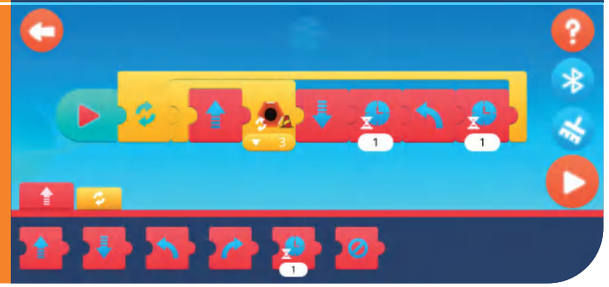
3 Download the project and build it

Explorer



PROGRAMMING CHALLENGE:

After completing the construction,
click the icon to enter the programming interface.

Challenge Tasks	Reference Program
Challenge One: Let the Explorer move forward for 3 seconds, turn left for 1 second, and continue to move forward for 1 second.	
Challenge Two: Let the Explorer continue to move forward until it encounters an obstacle, at which point it stops.	
Challenge Three: Let the Explorer continue to move forward. When it encounters an obstacle, it moves backward for 1 second and turns left to avoid the obstacle before moving forward again; if it encounters an obstacle again, it repeats the backward and left-turn actions.	

MORE TRICKS:

When the touch sensor on port 1 is pressed, the Explorer moves forward for 2 seconds; when the touch sensor on port 2 is pressed, the Explorer moves backward for 2 seconds.



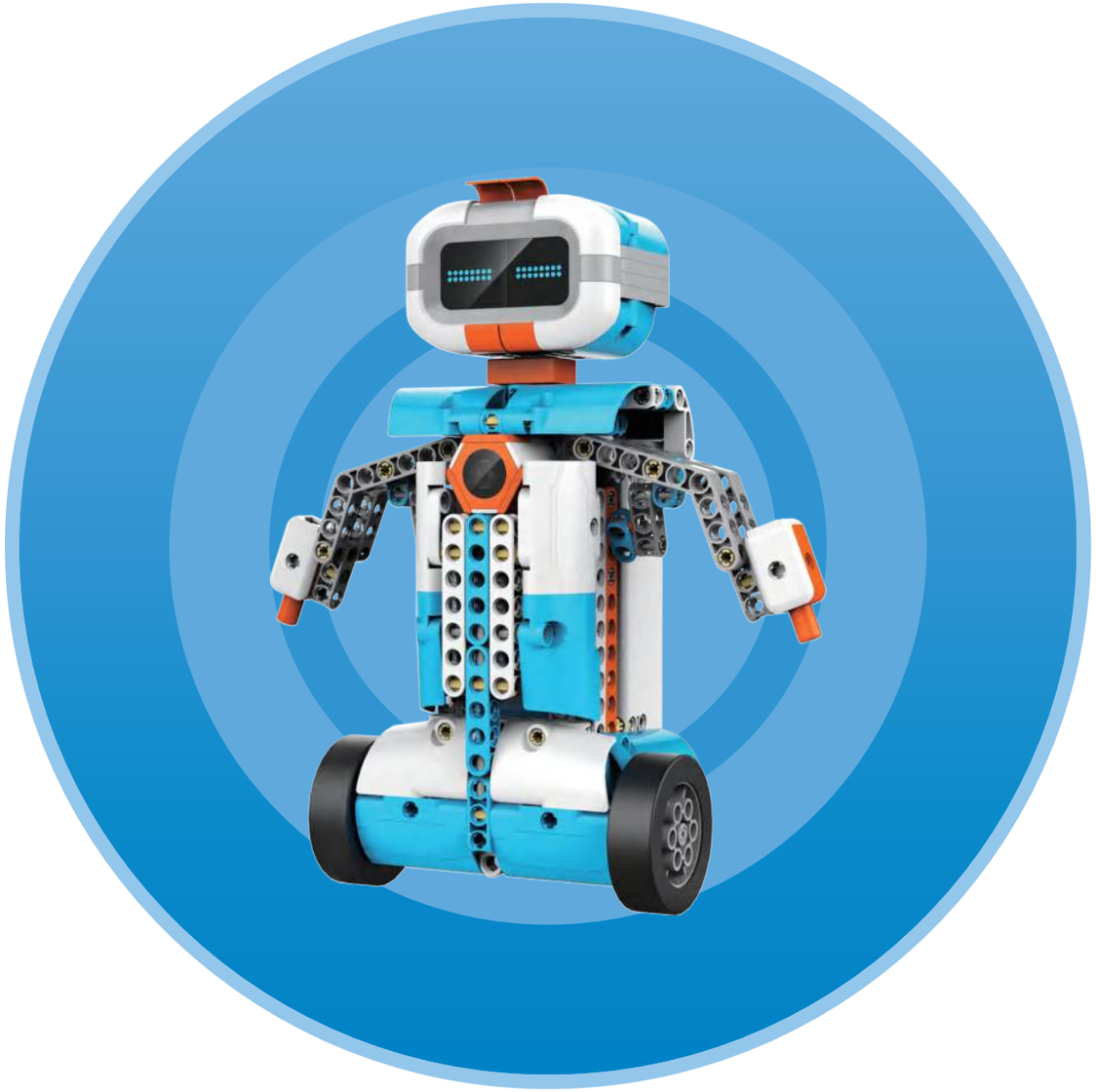






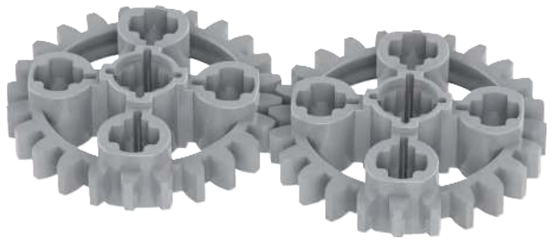
Penguin

Project Launch



KNOWLEDGE CARD:

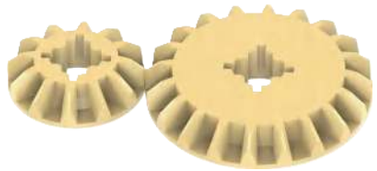
Investigating the Transmission of Bevel Gears.



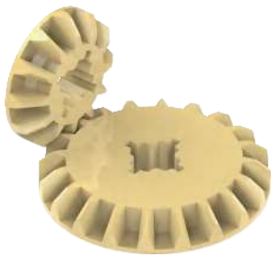
Transmission of Ordinary Gears

When two gears mesh together, if one gear moves, the other will also move, this is called transmission. Because of its peculiar shape, the bevel gear can only transmit at **specific angles, and we call this hypoid transmission.**

Bevel Gears Unable to Transmit:



Hypoid Transmission of Bevel Gears:





BUILDING GUIDE:

1 Download / Install / Open Register the mobile app

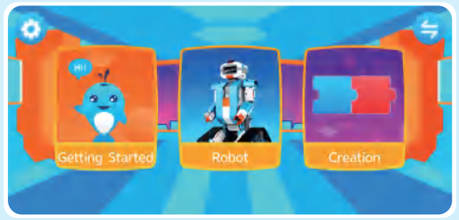
Scan the code to download the app

WhalesBot app



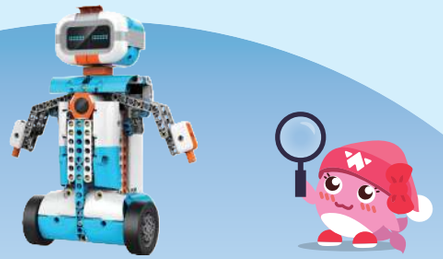
2 Select the corresponding model / Robot





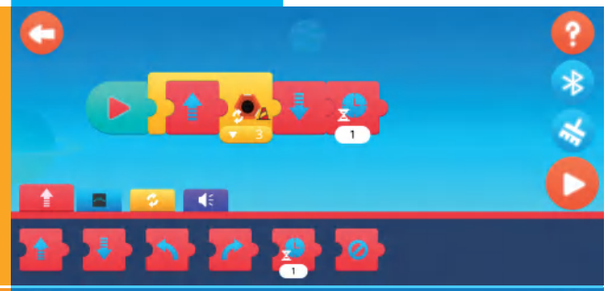
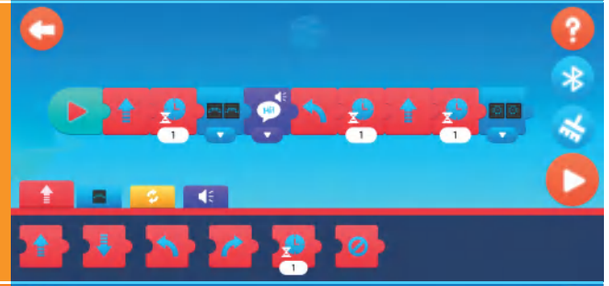
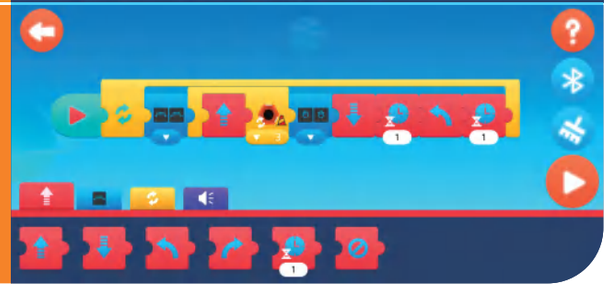
3 Download the project and build it

Penguin



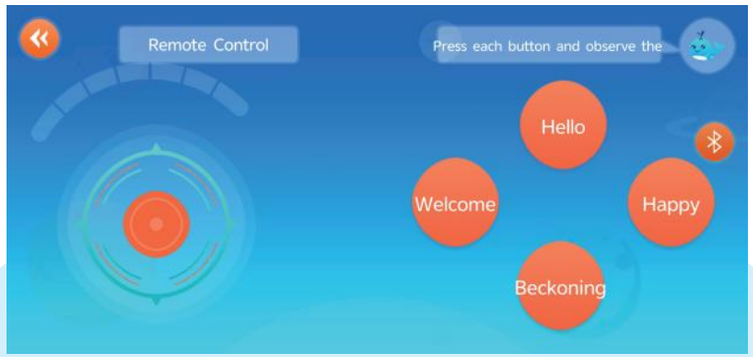
PROGRAMMING CHALLENGE:

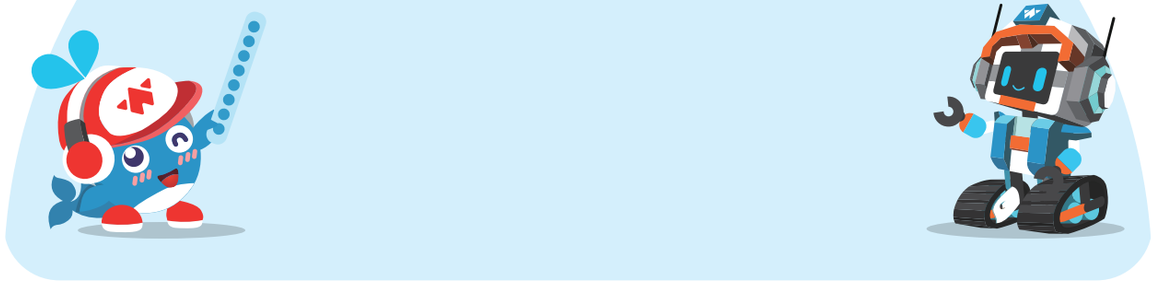
After completing the construction,
click the icon to enter the programming interface.

Challenge Tasks	Reference Program
Challenge One: The Penguin will continue to move forward until it encounters an obstacle (infrared sensor), then it will move backward for one second.	
Challenge Two: The Penguin moves forward for 1 second, shows a smiling expression and says "Hello", then turns left for 1 second and continues to move forward for 1 second, finally showing a crying expression.	
Challenge Three: The Penguin moves forward with a smiling face, until it encounters an obstacle and changes expression, then it moves backward for 1 second and turns left for 1 second to avoid the obstacle. Repeat the previous actions.	

MORE TRICKS:

Return to the construction interface, click the icon to enter the remote control interface. The left side of the interface controls the Penguin's movements, and the right side controls the Penguin's speech. Control the Penguin to navigate around obstacles and greet people.







Wall

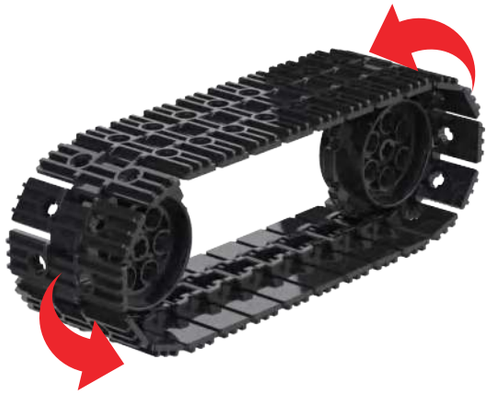
Project Launch



KNOWLEDGE CARD:

Unveiling the Crawler Structure.

At least two wheels are required in a crawler. As long as one wheel moves, the other will follow and rotate in the same direction. However, having only two wheels can easily deform the crawler.



Therefore, many crawler structures involve three wheels. The top one is called the band-supporting wheel, which mainly functions to lift and keep the crawler taut.



BUILDING GUIDE:

1 Download / Install / Open Register the mobile app

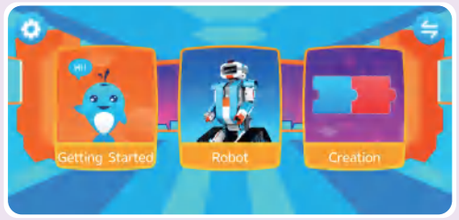
Scan the code to download the app

WhalesBot app



2 Select the corresponding model / Robot





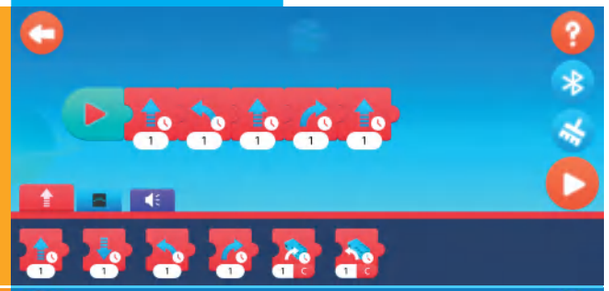
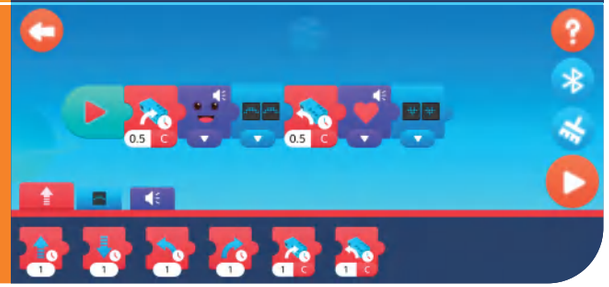
3 Download the project and build it

Wall



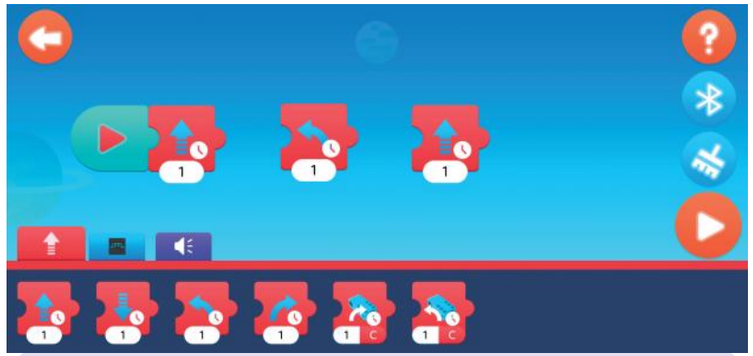
PROGRAMMING CHALLENGE:

After completing the construction,
click the icon to enter the programming interface.

Challenge Tasks	Reference Program
Challenge One: Have Wall patrol the left and right, exploring its surroundings.	
Challenge Two: The motor on Port C can make Wall neck move, and you can also use the sound module to make it laugh.	
Challenge Three: Wall is very playful, sometimes it moves its head, shows a smiling face, and laughs; other times it moves its head, revealing a love expression to the things it likes.	

MORE TRICKS:

Wall will move its head to observe when turning, then show a smiling face and move forward after turning. Can you complete the program?









The Duke

Project Launch

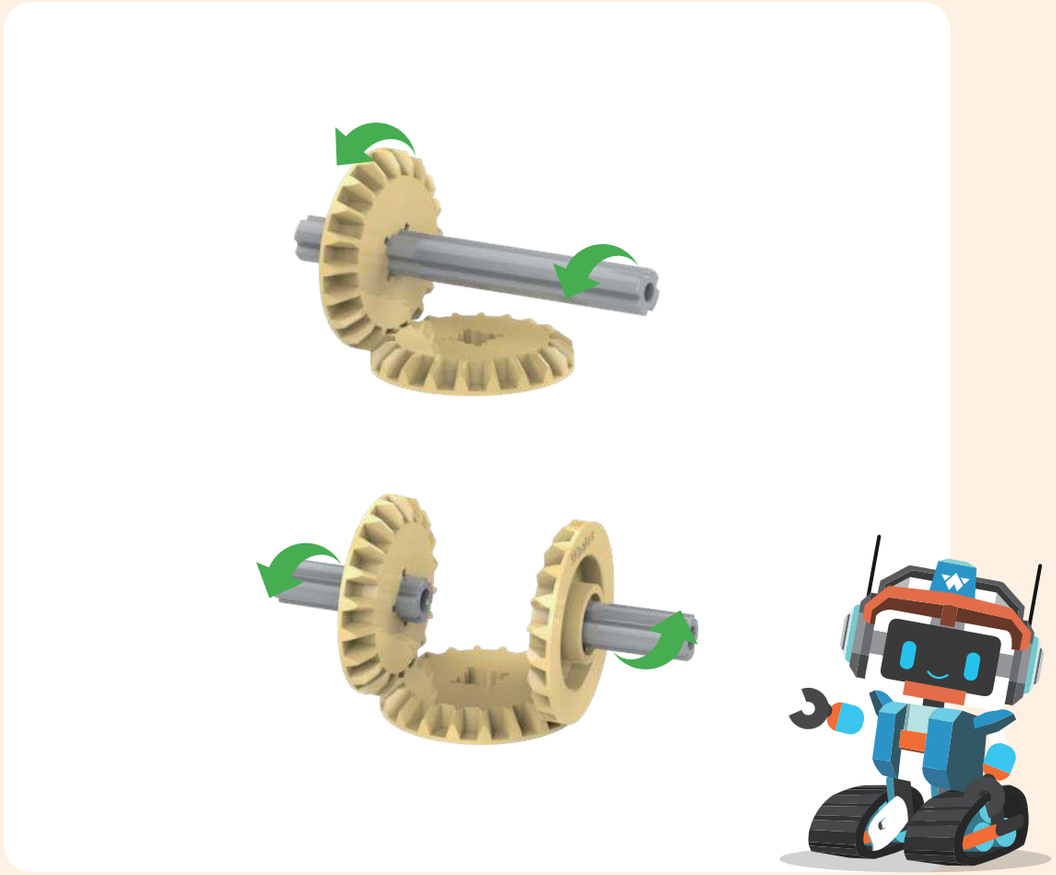


KNOWLEDGE CARD:

Direction of Bevel Gear Transmission.



We can use one bevel gear to drive one or more bevel gears. If the two driven bevel gears are placed face to face, then their rotation directions will be opposite.



BUILDING GUIDE:

1 Download / Install / Open Register the mobile app

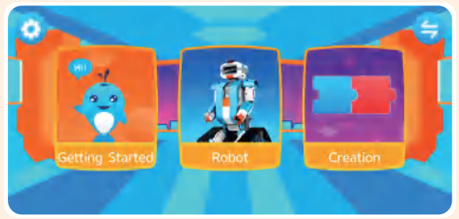
Scan the code to download the app

WhalesBot app



2 Select the corresponding model / Robot





3 Download the project and build it

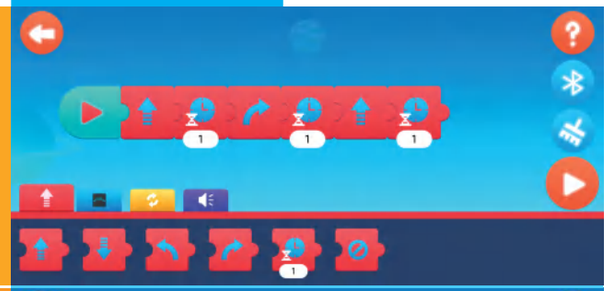
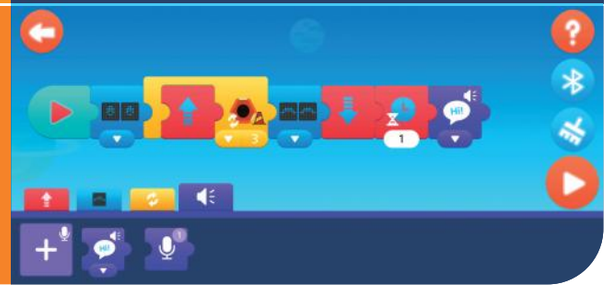
The Duke





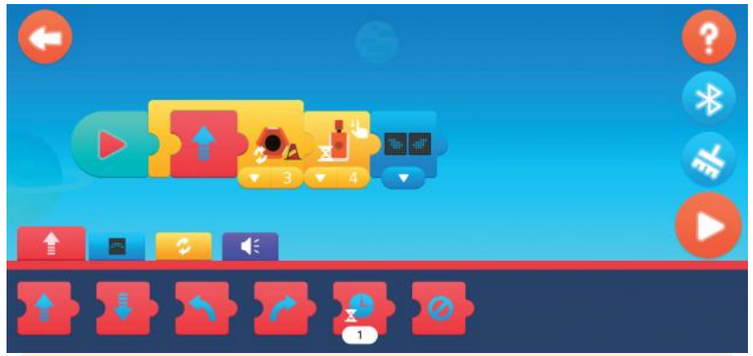
PROGRAMMING CHALLENGE:

After completing the construction,
click the icon to enter the programming interface.

Challenge Tasks	Reference Program
Challenge One: The Duke robot will first move forward, noticing something on the right, so it turns right to check.	
Challenge Two: The Duke will keep moving forward until it encounters a good friend (obstacle) and then shows a smile.	
Challenge Three: The Duke keeps moving forward until someone is in front, then it moves backward for 1 second, and finally greets.	

MORE TRICKS:

The Duke will keep moving forward until it encounters someone and stops. When someone touches its hand (touch sensor), it will show an angry expression.









Goal: Become the No.1 educational robotics brand worldwide

