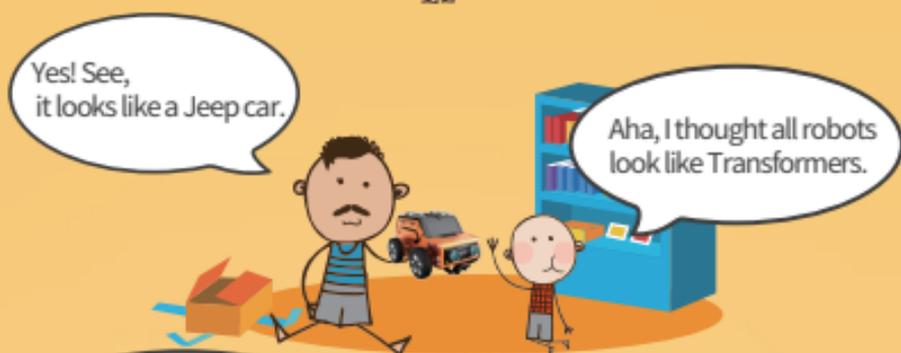
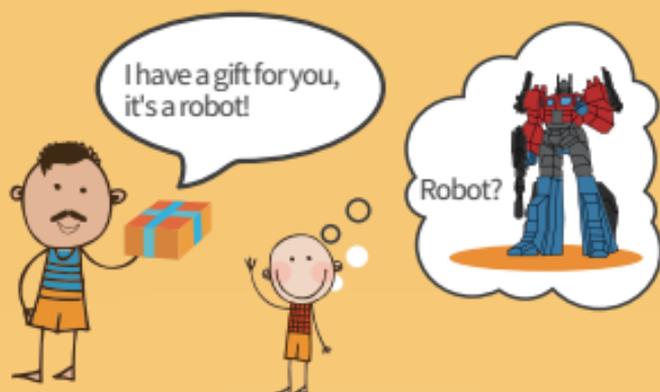


Play

WeeeBot mini

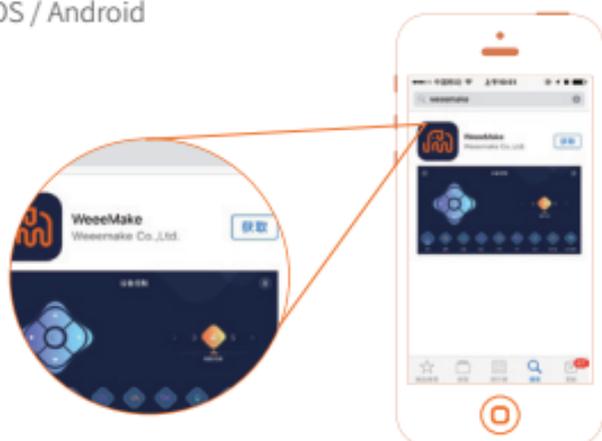


Play with WeeeBot mini

APP Control

Download WeeeMake APP on App store or Google Play, open and start control WeeeBot mini.

System: IOS / Android



Connection:

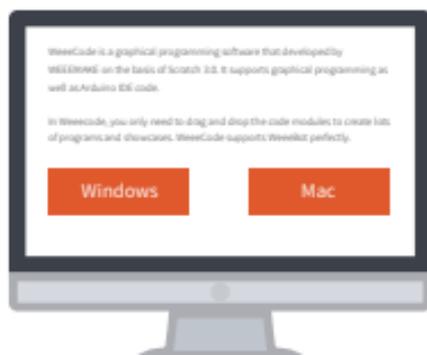
Turn on the power of WeeeBot mini, open bluetooth of your smart device, and then open WeeeMake APP. Put your smart device near the WeeeBot mini, APP will enter control page once bluetooth connected.



Coding

Please visit website www.weemake.com, select Download to download graphical programming software WeeeCode. Drag and drop coding blocks, put them together to create program. You can control WeeeBot mini by uploading program to WeeeCode mini through USB cable.

System: Mac OS / Windows



Control

WeeBot mini

Hey,
grab you robot.
Let's have a race!

Ok,
no problem.

Run!
Run!

Come on!

Oops, it's stuck.

Aha,
showtime!

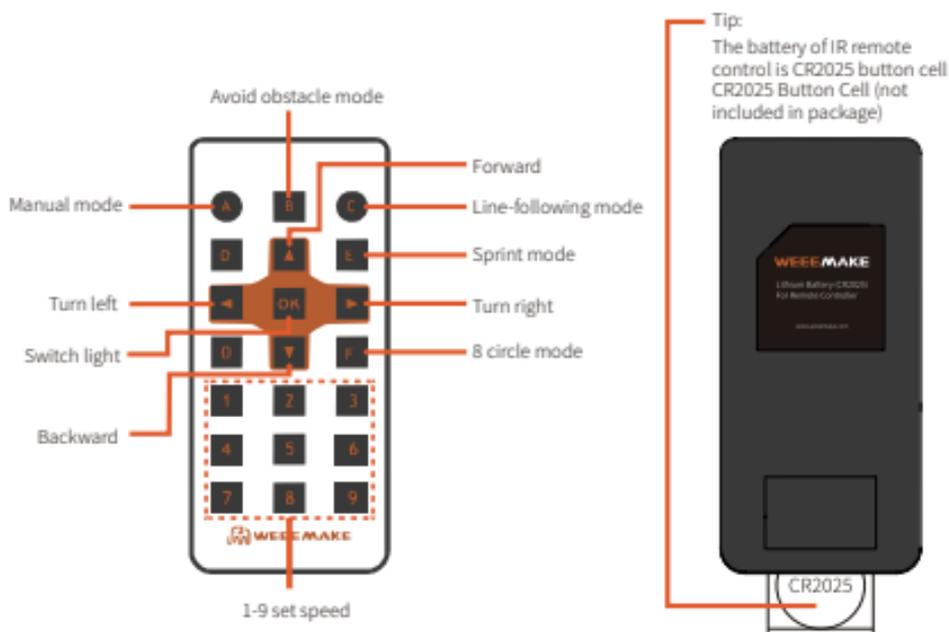
Sprint!

Control

Select manual mode, control the direction or speed of WeeeBot mini



1. Take out IR Remote Control, insert CR2025 Button Cell (not included in package);
2. Switch on ELF mini mainboard, turn on the robot, use IR remote controller to control WeeeBot mini;
3. IR remote control guide:



Obstacle-avoidance Mode

WeeeBot mini

I have a secret weapon this time.

Let's race again, more challenge this time.

Ok, anytime.



Speed up, speed up, my secret weapon.

Oh, what a bad luck, it hits the obstacle.

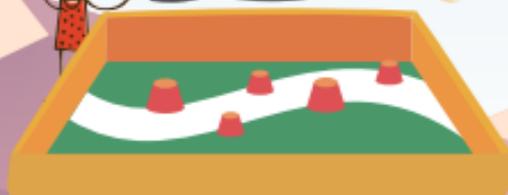


It's time for obstacle avoidance mode.



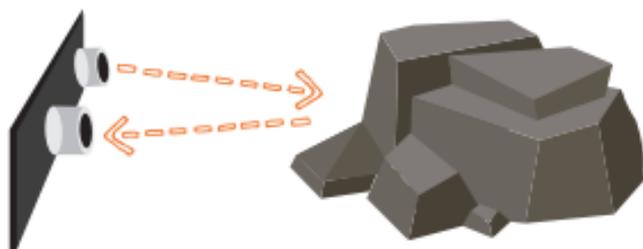
Wow, WeeeBot mini is awesome.

Of course.



Obstacle-avoidance Mode

Theory: IR module will transmit infrared signal to test whether obstacle is existed in front or not. If obstacle existed, infrared signal will be reflected to WeeeBot mini.



Obstacle-avoidance mode: WeeeBot mini keeps detecting whether obstacle is existed in front or not. If yes, WeeeBot mini will turn to avoid the obstacle.



8 Circle Mode: WeeeBot mini will run a route like number 8.



Line-following Mode

WeeeBot mini

Besides avoiding obstacle, what else does WeeeBot mini can do?

WeeeBot mini can do a lot of things let me show you line-following.



What is line-following?



Line-following means the robot will run following a preset route. It's like a train running on railroad track, the train will not run out of track.



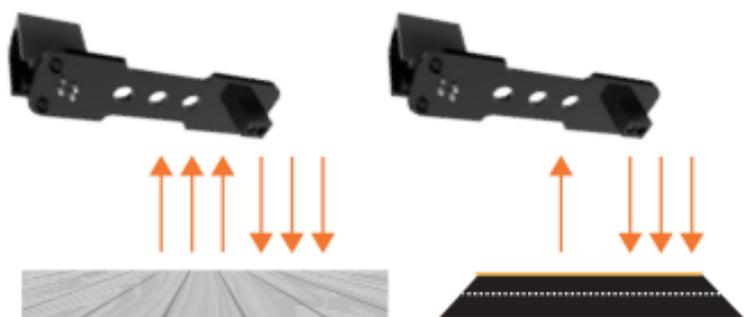
Shall we design a route for WeeeBot mini?

Sure, let's do it.

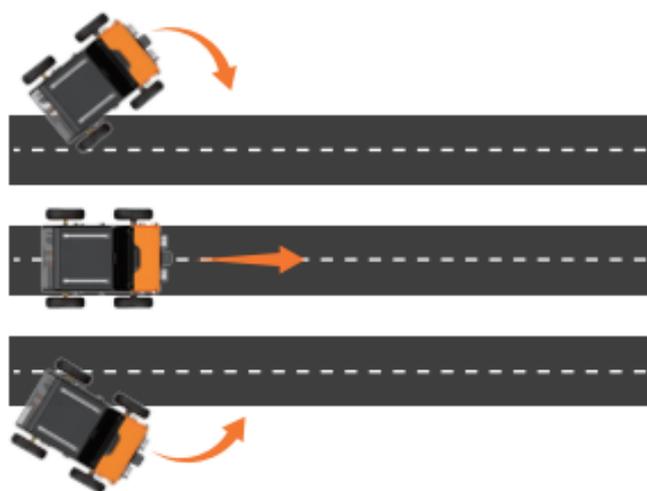


Line-following Mode

Theory: Different color will absorb different amount of infrared light. Line-following sensor will transmit infrared light, and detect transitions from light to darkness by measuring the amount of reflected infrared light.



Line-following Mode: Put WeeeBot mini on a black line map, it will move follow the black line. If the line-following sensor detected that WeeeBot mini deviated the black line route, robot will make a turn to go back the route.



Line-following map: 1. Use line-following map in package
2. Use black tape to make your own map.



Draw Mode

WeeeBot mini

Hey little man,
what happened?



My friend's birthday
is coming, I want to
say happy birthday to
her in a special way.



You can use your
WeeeBot mini.



Use the "Draw"
mode to show
your best wishes.



Thank you!



Happy birthday!

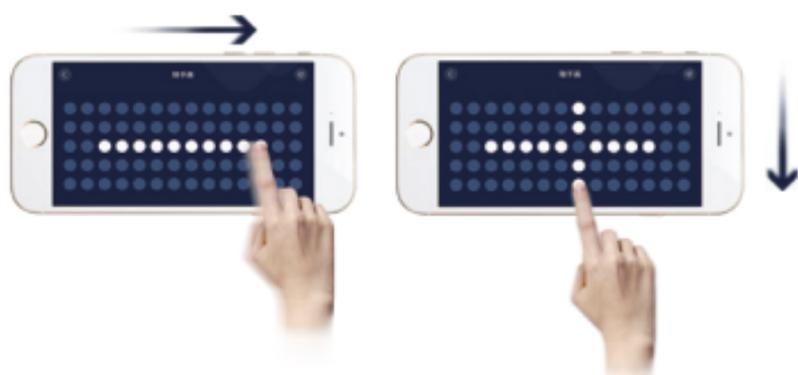


Draw

Theory: The LED matrix panel is consist of many LED bulbs, by turning on or off each bulb we can control the panel to display.



Draw Mode: By touching bulbs on screen to turn on/off LED bulbs.



Create Emoji: use Draw mode to draw emoji on LED marix panel.



Pleasure



Anger



Sorrow



Happiness

Flash

WeeeBot mini

I want to make WeeeBot mini's lights flashing like the real car lights!

Easy, we can code to make it happen.

Open WeeCode, find the coding block of RGB LED. Drag and drop those blocks to make a program.



Once you create the program, upload it to WeeeBot mini, and then it will follow your command.

See!

Wow, cool!

You can communicate with robot through coding.

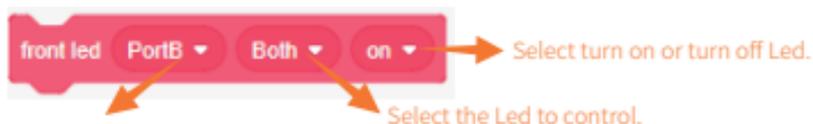
Great, I will learn coding, too!

Flash

Software Introduction: The software user interface is consist of coding block zone and code zone. In coding block zone, same category coding blocks will be mark in same color. Coding blocks to control robot is in category WeeeBot mini, drag and drop coding block to code zone can create program.



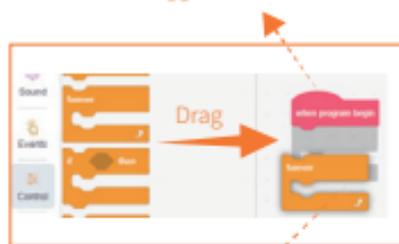
LED Car Light: Find the coding block to control LED in WeeeBot mini category



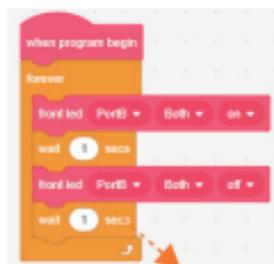
Select the port for Led module, default port is Port B.

Coding: Drag coding blocks to code zone and pile up to write programs.

Drag coding block "when program begin" to code zone as the trigger condition.



Drag coding block "forever" behind "when program begin", when you see a shadow means those blocks can be connected.



Find coding block "forever" and "wait 1 secs" in control category, write a program to keep flashing car light Led.

Upload: Connect USB cable, click "Arduino".



Click upload button

USB Port



Once you see "upload successfully", means the program is uploaded to WeeeBot mini. Turn on the power switch, Led car lights will be flashing.

Upload success

Rainbow Color Light

WeeBot mini

Do you know how many colors in rainbow?

Come on, see the rainbow!



Good. Rainbows are an arc of color that appears in the sky after certain weather conditions. Water in the air acts as a prism, splitting sunlight into its component colors and reflecting those colors back to the viewer. Colors can also be mixed and turn to a new color.

Seven colors. Red, orange, yellow, green, blue, indigo, and violet.



Let's find out by coding.

So if I mix red and blue, what color would it be?

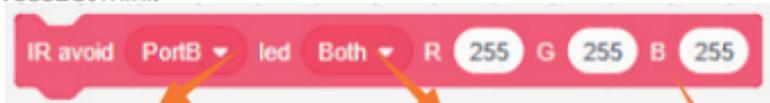


Rainbow Color Light

Theory: RGB color model is an additive color model in which red, green and blue light are added together in various ways to reproduce a broad array of colors. The name of the model comes from the initials of the three additive primary colors, red, green, and blue.



RGB LED: Find the coding block to control RGB LED in category WeeeBot mini.

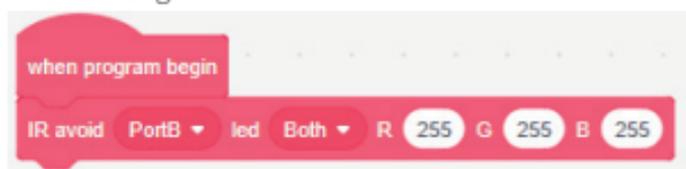


Select the port of RGB module, the default port is Port B.

Select the RGB LED to control.

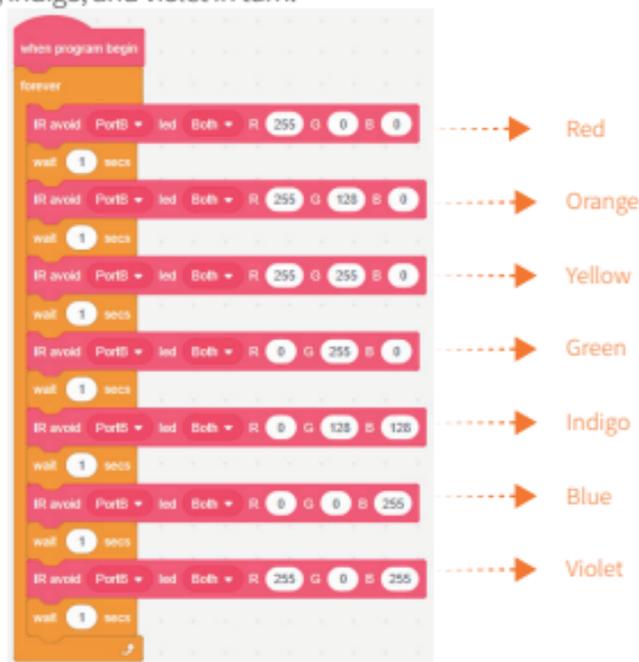
Change the value to show different color.

Coding: change the value of red and blue in RGB LED coding block, observe the light color.



★ Try to change the value of red, green, blue and observe the light color.

Reference Program: car light will change to red, orange, yellow, green, blue, indigo, and violet in turn.



Young Performer

WeeeBot mini

Do you know how a guitar make sound?



Correct, you are so clever. Watch your life carefully, you will find out a lot of secrets.



When I play guitar, the string is vibrating quickly. Does guitar make sound by string's vibration?

WeeeBot mini can play song through coding, too.



Amazing, let's have a try.

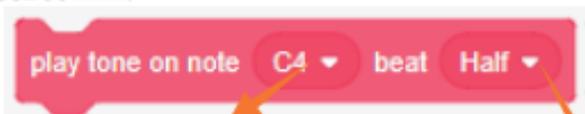


Young Performer

Theory: Object vibration will make sound, once vibration stopped, sound will be disappeared.



Buzzer: Find the coding block to control buzzer in category WeeeBot mini.



C-B stands for do-si, 3-5 stands for bass-high pitch, C4 is also do.

half beat-whole note stands for a unit time of music.

★ You can change the beat of each note after finish coding.

Music Score:

Twinkle, Twinkle, Little Star

Time signature shows quarter beat for the song.

The short line stands for a longer beat,

in WeeeCode we adjust this note to half beat.

$$1=C \frac{4}{4}$$

1 1 5 5 | 6 6 5 - | 4 4 3 3 | 2 2 1 - | 5 5 4 4 | 3 3 2 - |

Twinkle, twinkle, little star, How I wonder what you are! Up above the world so high,

5 5 4 4 | 3 3 2 - | 1 1 5 5 | 6 6 5 - | 4 4 3 3 | 2 2 1 - |

Like a diamond in the sky. Twinkle, twinkle, little star, How I wonder what you are!

Reference Program: Each coding block refers to one note in music score.

①

②

③

★ Pile up all blocks together.