



HELLO OTTO !

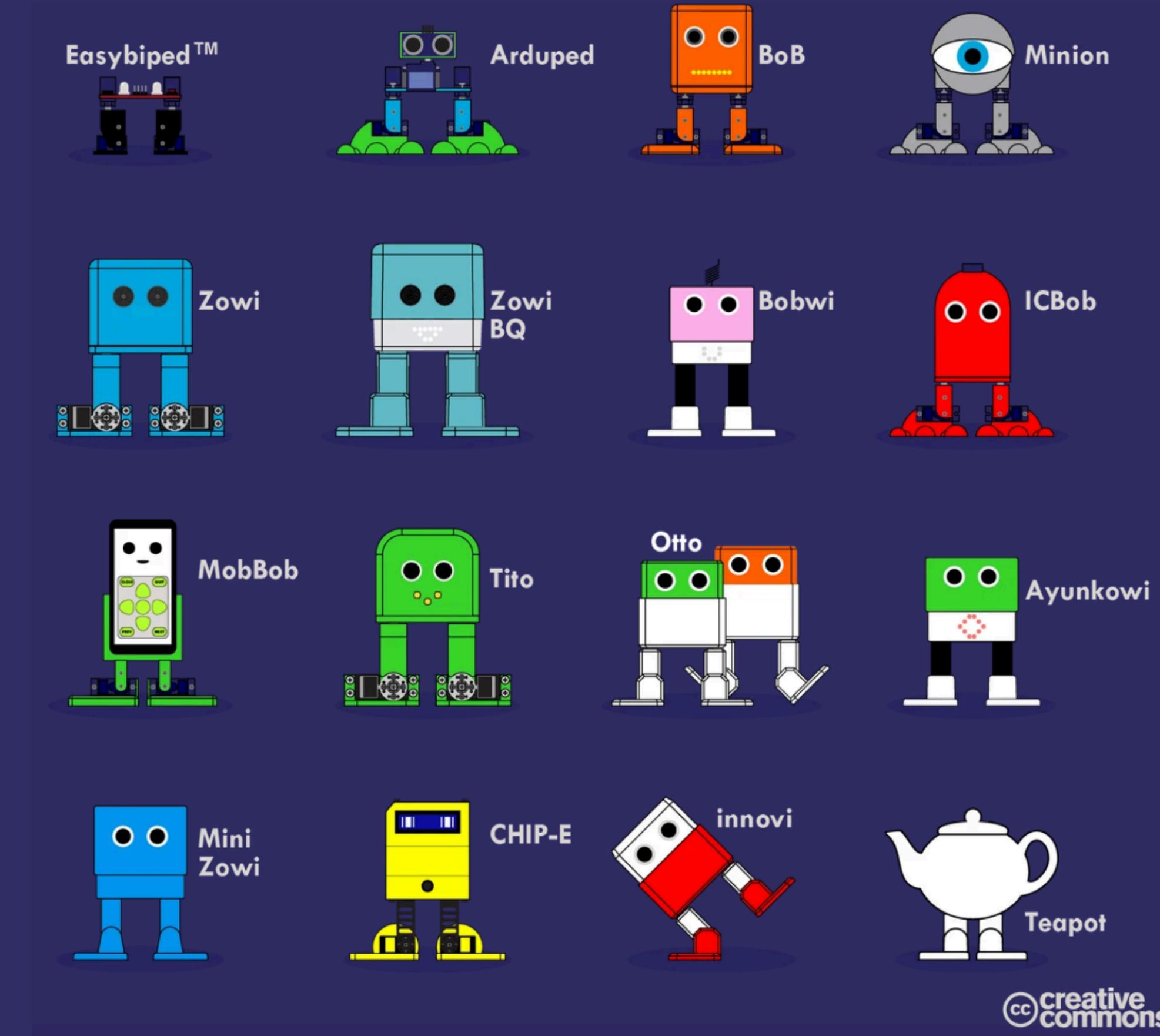


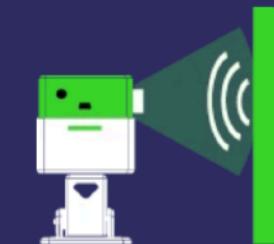
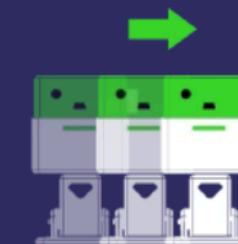
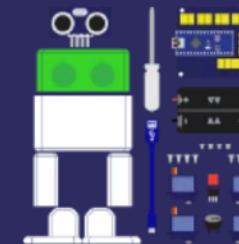
BUILD
YOUR OWN
Otto
ROBOT



Who is Otto?

Otto is an interactive robot that anyone can make! the biggest and broadest family among open source robots, we like people that not only make but also remix, redesign or improve to contribute back to this project.





3D printable

easy in less than 8 hours

DIY

ready to build in 1 hour

walk

go straight, back & turn

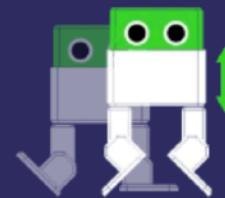
avoid obstacles

with ultrasound sensor

What Otto can do?

Easy to program with graphical and visual programming interface for beginners perfect for schools and workshops.

Quickly learn the principles of coding before jumping into C/C++ + advanced command lines, algorithms and functions.



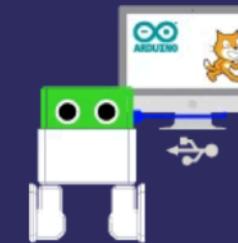
dance

multiple style moves



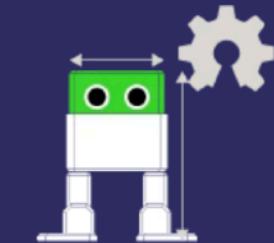
makes sounds

robot tones & melodies



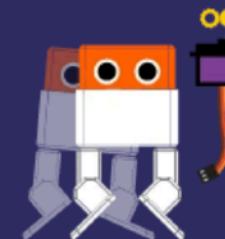
easy to program

coding via USB



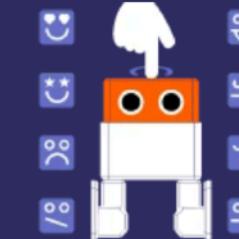
open source hardware

design totally FREE



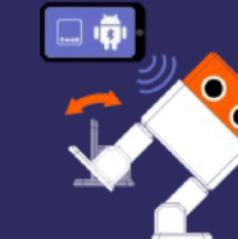
+strong

metal gears servos



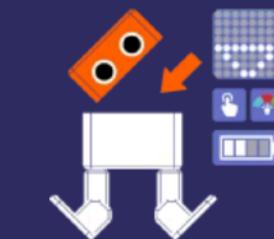
+touch sense

feeling & emotion reaction



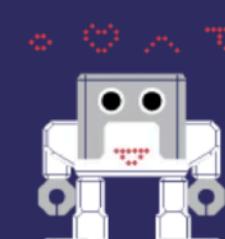
+bluetooth control

FREE Android APP



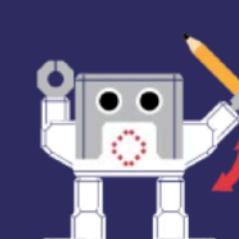
+sound sense

react to sounds



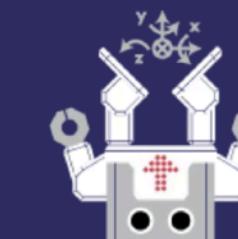
LED mouth

(Humanoid only)
express feelings



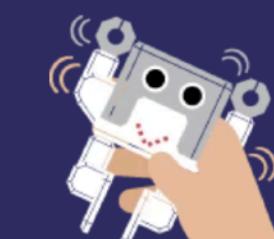
arms and gripper

(Humanoid only)
humanoid alike



gyroscope

(Humanoid only)
orientation sense



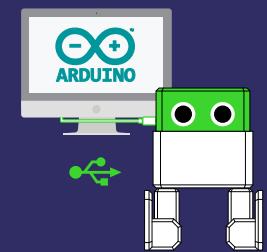
accelerometer

(Humanoid only)
movement sense

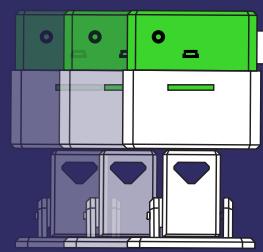


Otto BUILDER

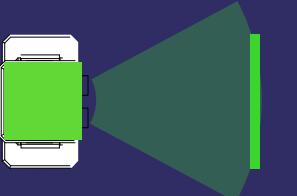
BUILD YOUR OWN ROBOT



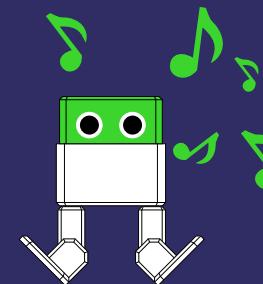
PROGRAMMING



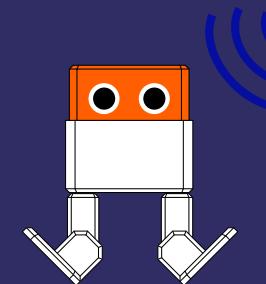
WALKING



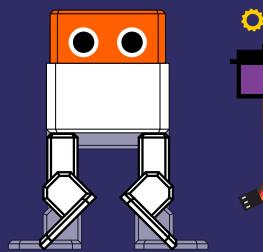
SENSING



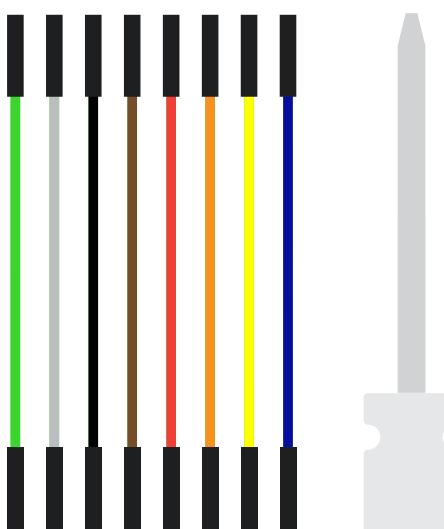
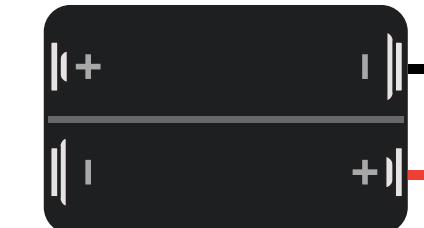
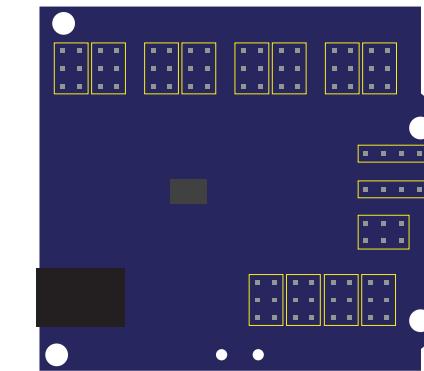
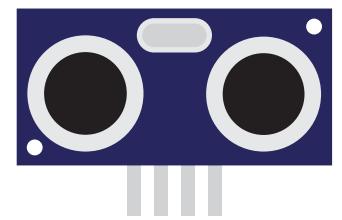
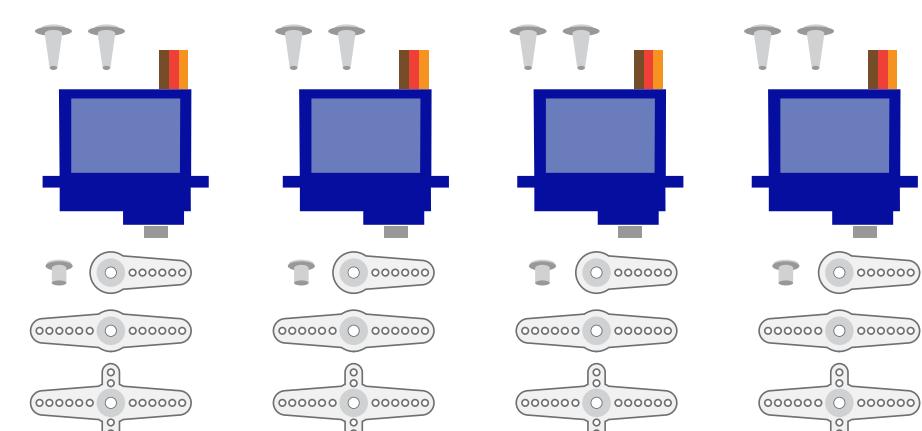
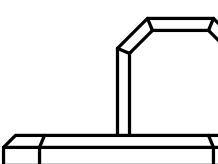
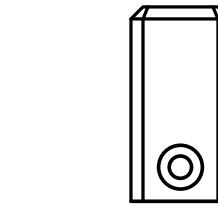
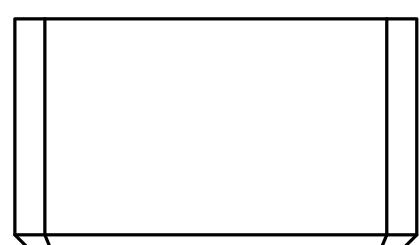
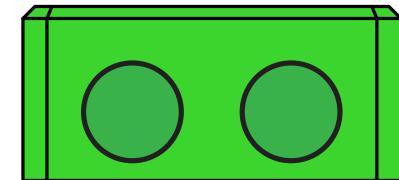
SINGING



HEARING



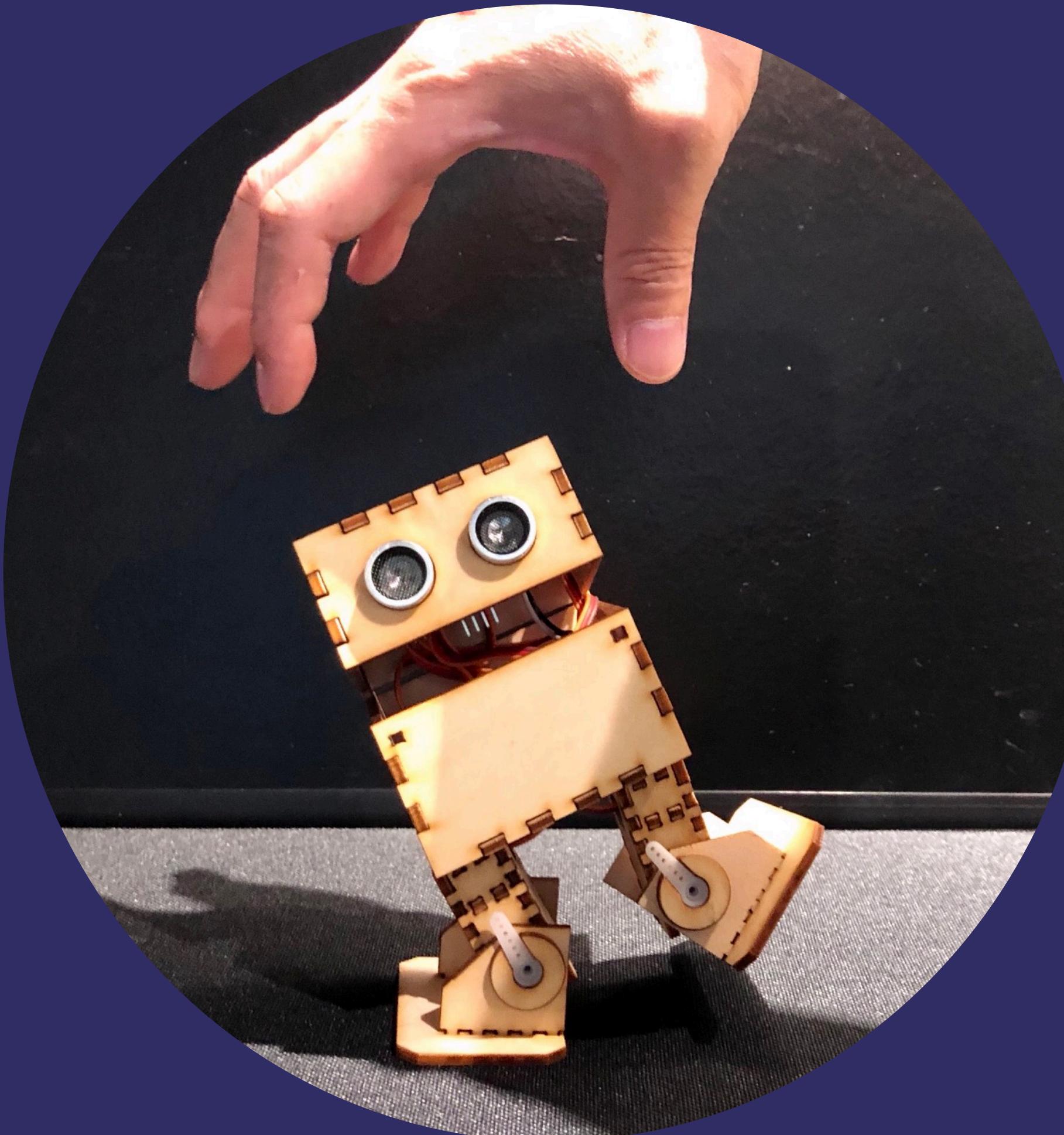
DANCING





The Laser cut version

- Learn the basic basic knowledge of electronic devices.
- Learn the basic structure of a two-feet robot.
- Learn the basic programing logic.
- Design and decorate your own robot.





3 STEP TO START

搭建雏形

PROTOTYPING
WITH ALL ELECTRONIC
COMPONENTS

STEP 1

组装模型

ASSEMBLING YOUR
MODEL

STEP 2

测试与调整

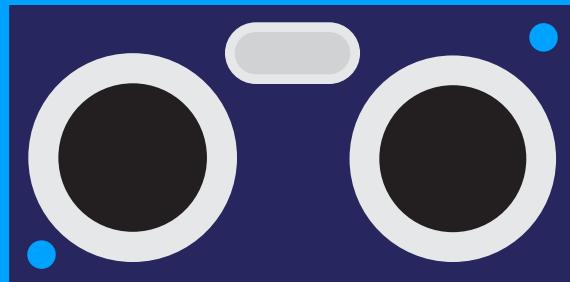
TEST AND ADJUSTMENT
YOUR OTTO

STEP 3

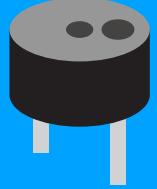


STEP

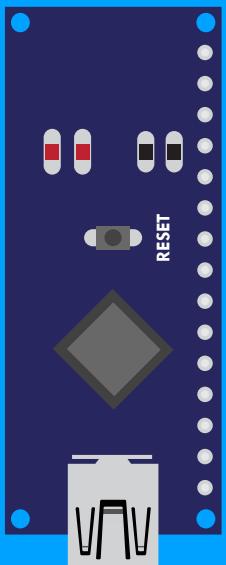
PROTOTYPING



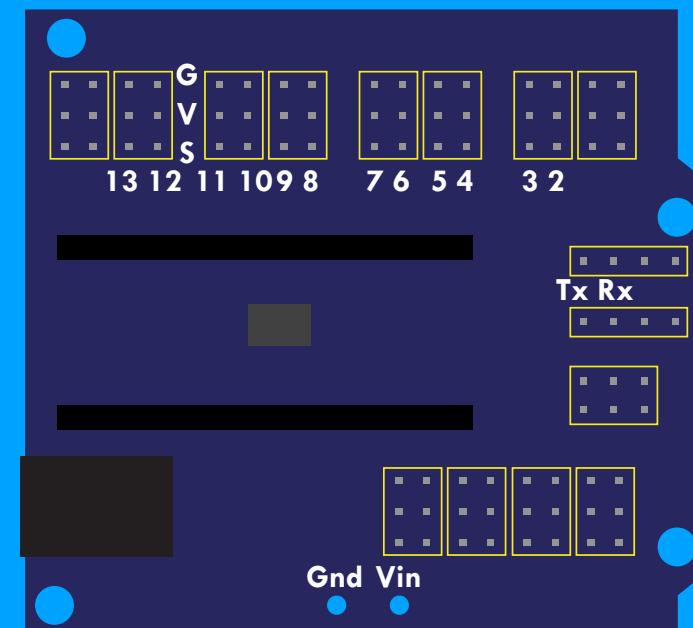
HC-SR04 / 超声波传感器



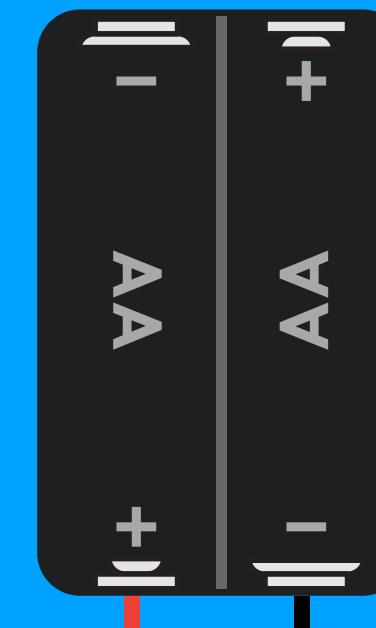
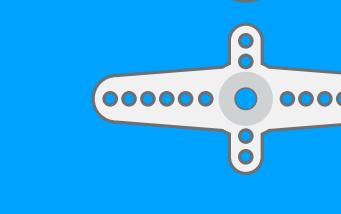
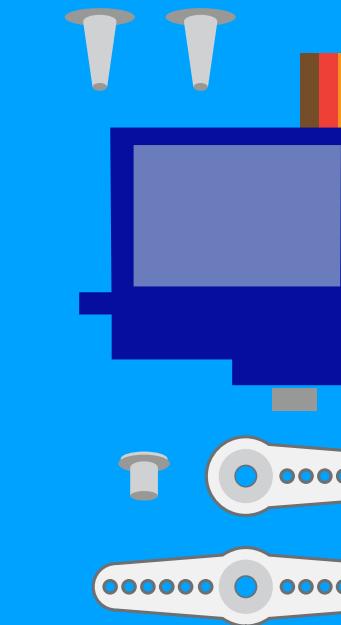
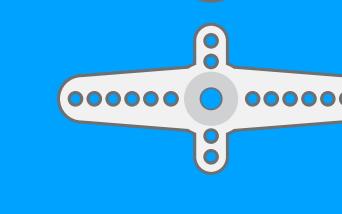
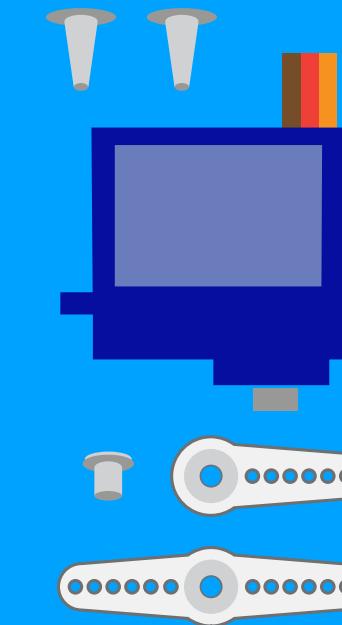
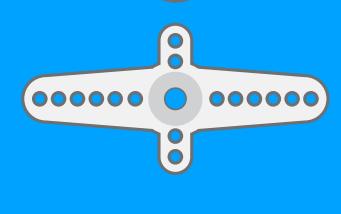
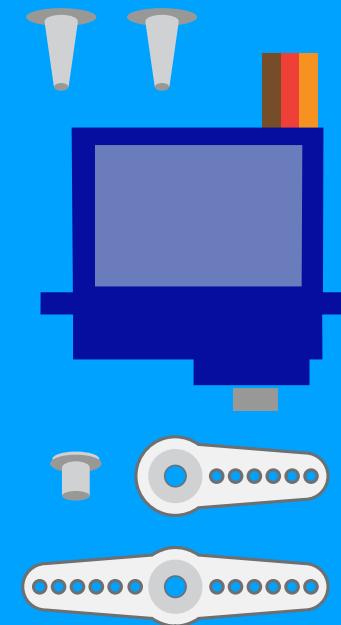
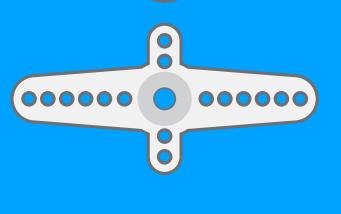
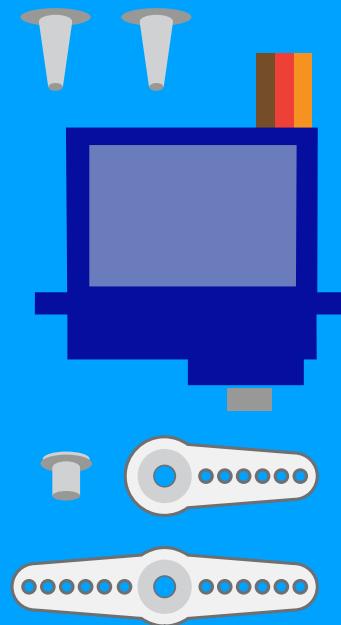
Buzzer/ 蜂鸣器



Arduino
NANO



Arduino NANO shield / 扩展板



AA battery holder
电池盒



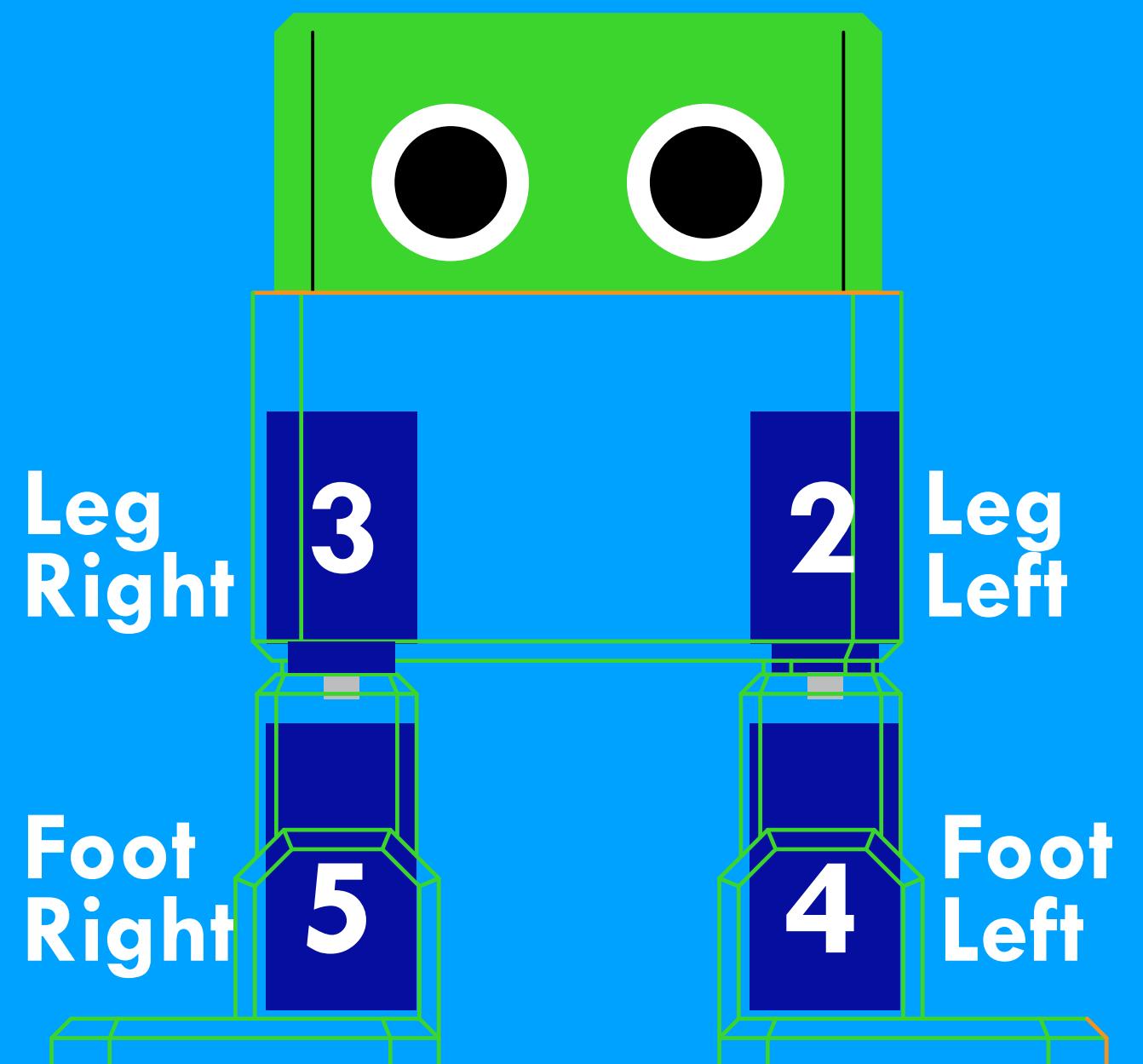
USB cable



Dupon connector cable / 杜邦线



O + + O



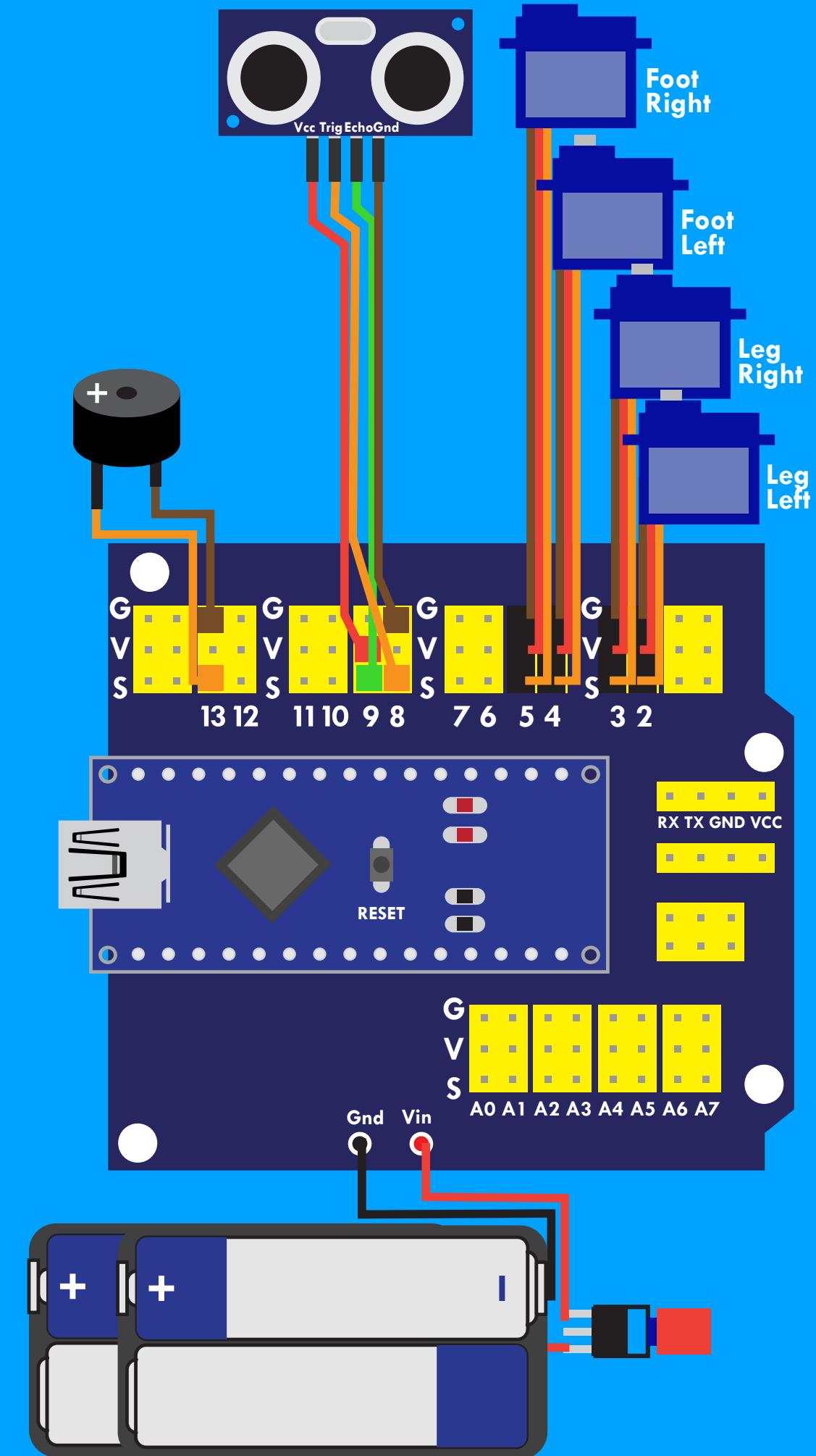
Leg Right

Foot Right

A blue vertical bar with two circular cutouts at the top and bottom, and a horizontal slot in the middle.

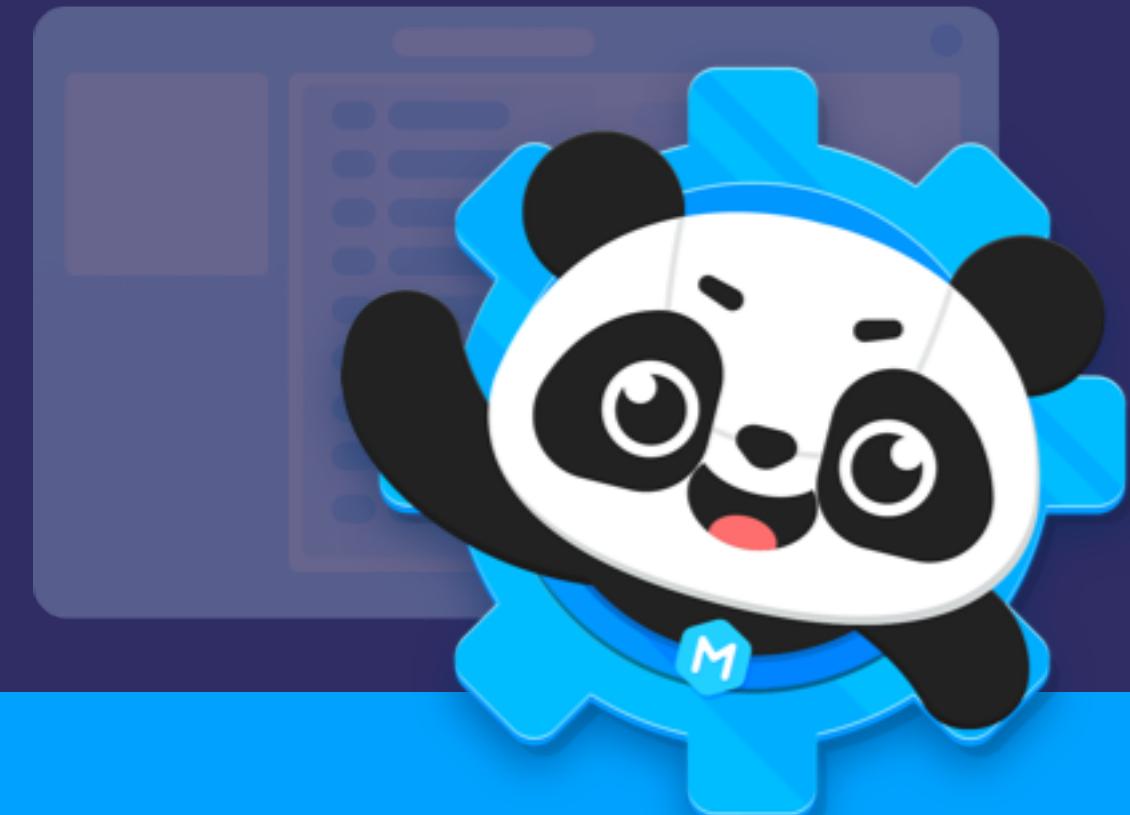
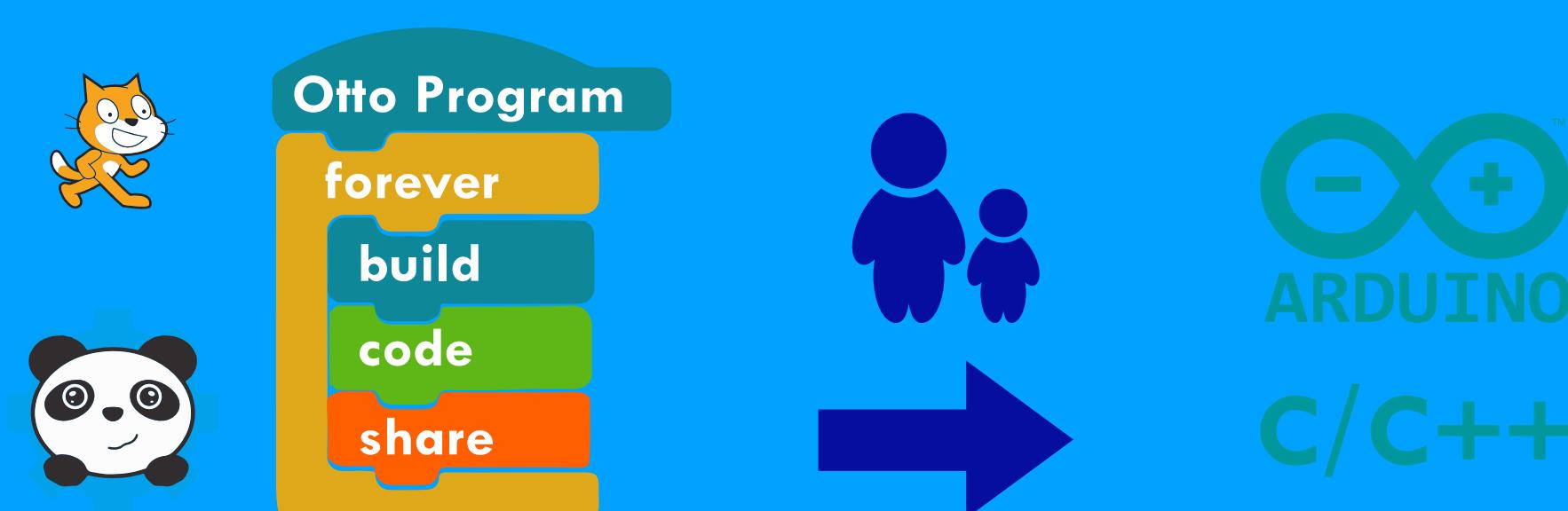
Cable color may vary

G (GND)
V (+5V)
S (SIGNAL)





mblock is a graphical programming environment based on Scratch 2.0 Open Source Code that makes it easy to program electronics projects and create interactive robots like Otto; with the Arduino mode you can view both the Arduino source changes in real-time and the graphical blocks corresponding to the C language code, so that you can process a smooth transition to advanced programming.



DOWNLOAD

WINDOWS:

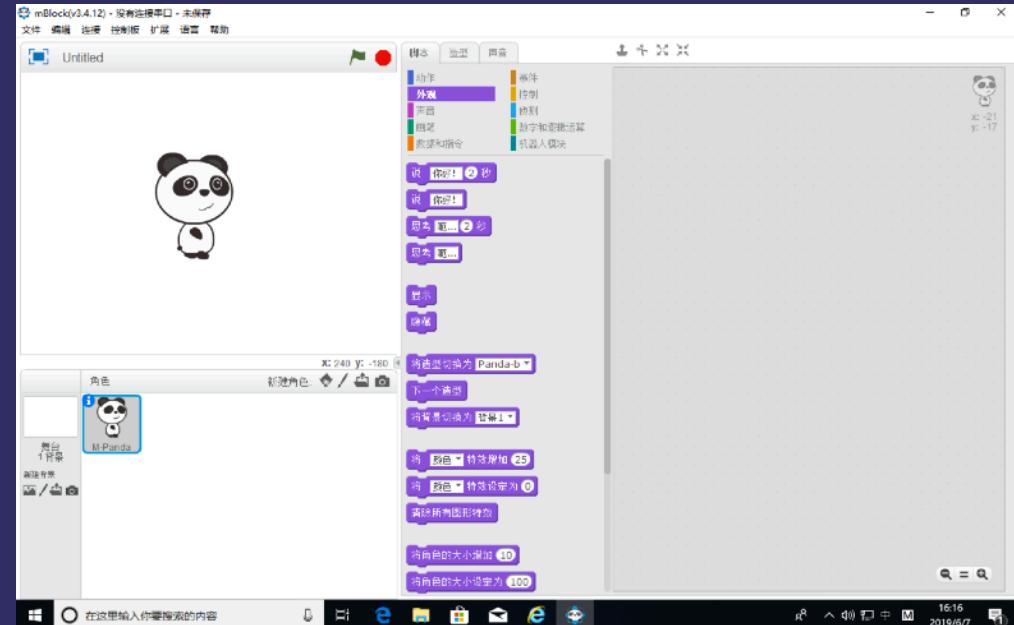
[https://dl.makeblock.com/
mBlock_win_V3.4.12.exe](https://dl.makeblock.com/mBlock_win_V3.4.12.exe)

MAC OS:

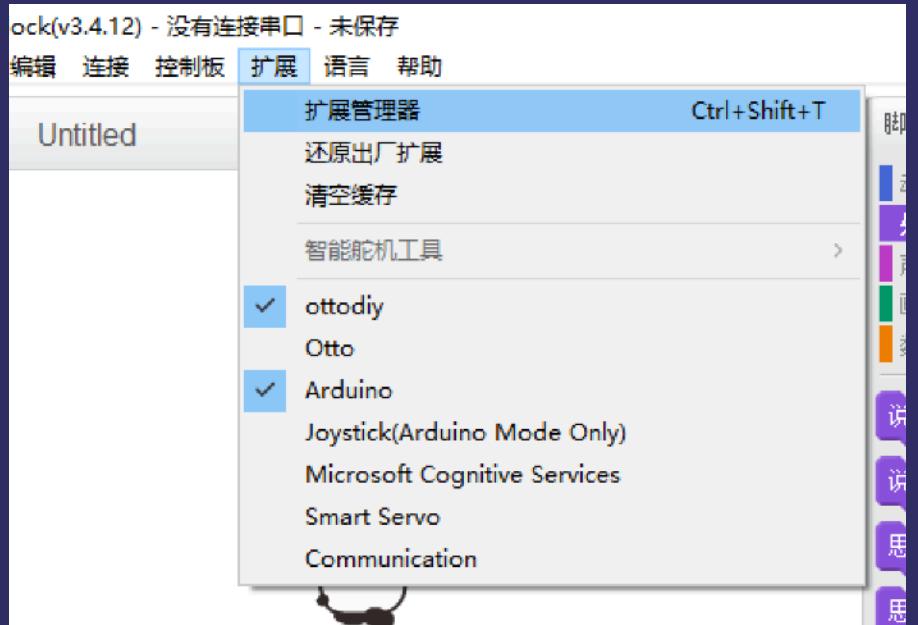
[https://dl.makeblock.com/
mBlock_mac_V3.4.12.zip](https://dl.makeblock.com/mBlock_mac_V3.4.12.zip)



FINISH YOUR FIRST PRPGRAM



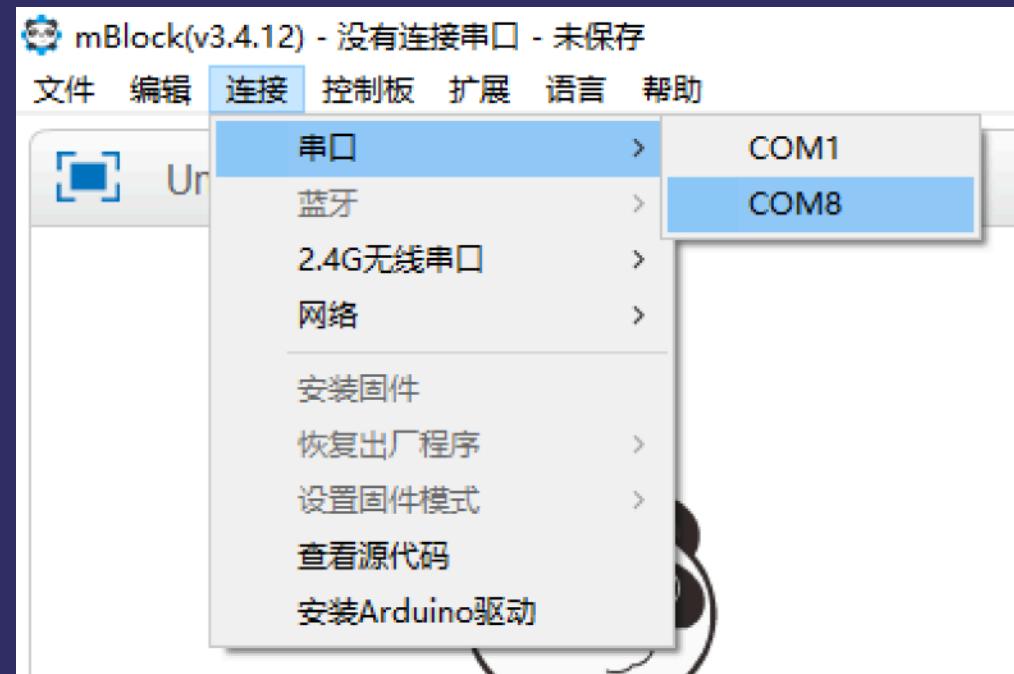
Step 1 安装打开mblock



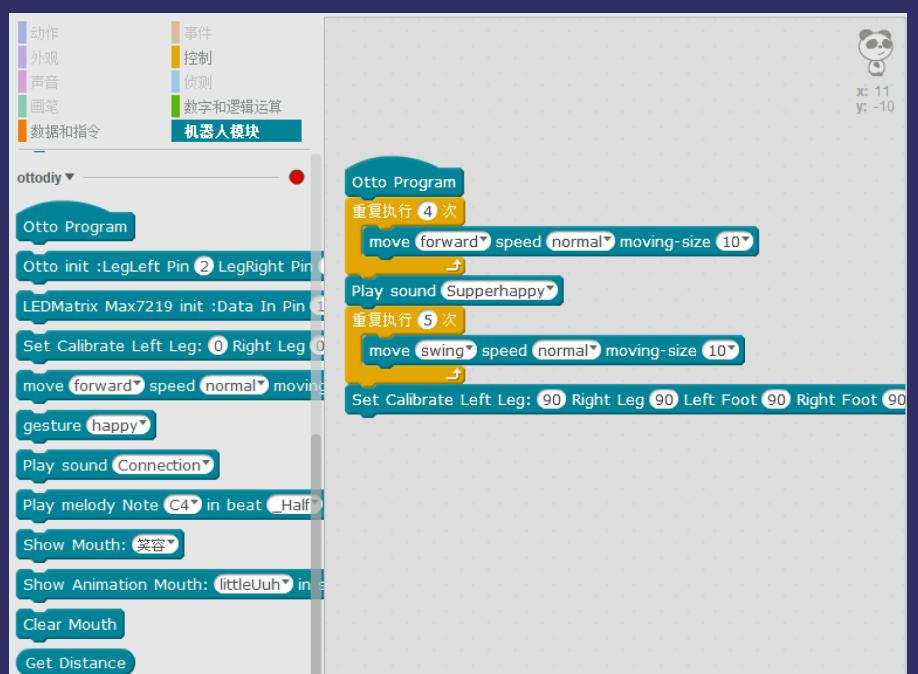
Step 2 开启扩展器



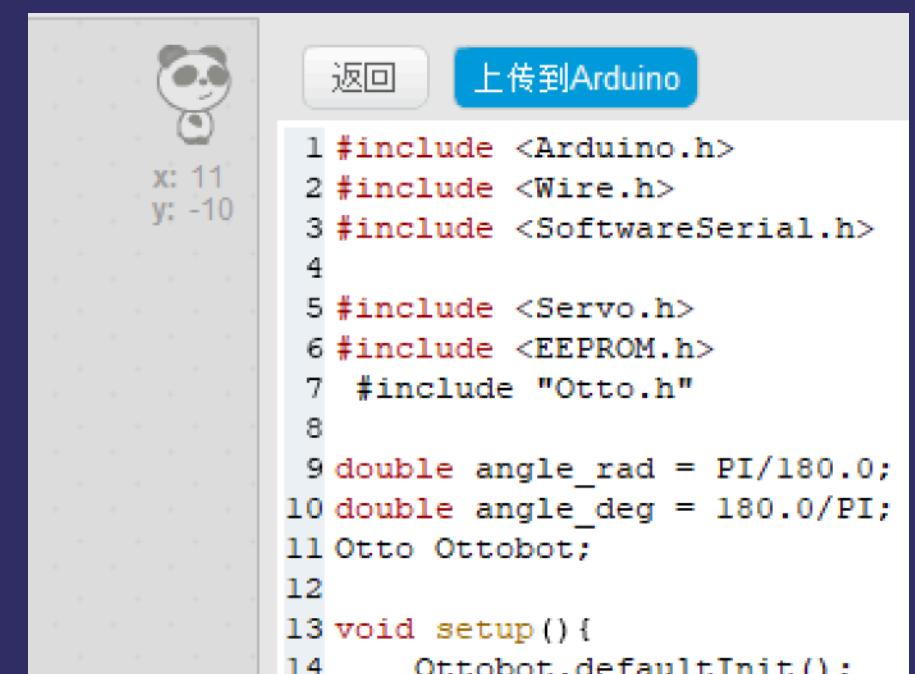
Step 3 搜寻安装“Otto DIY”插件



Step 4 接上arduino



Step 5 拖拽第一个编程

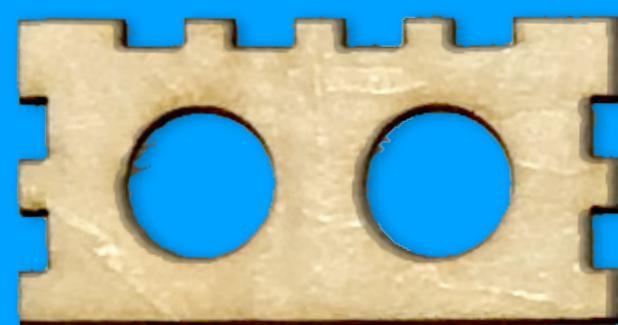
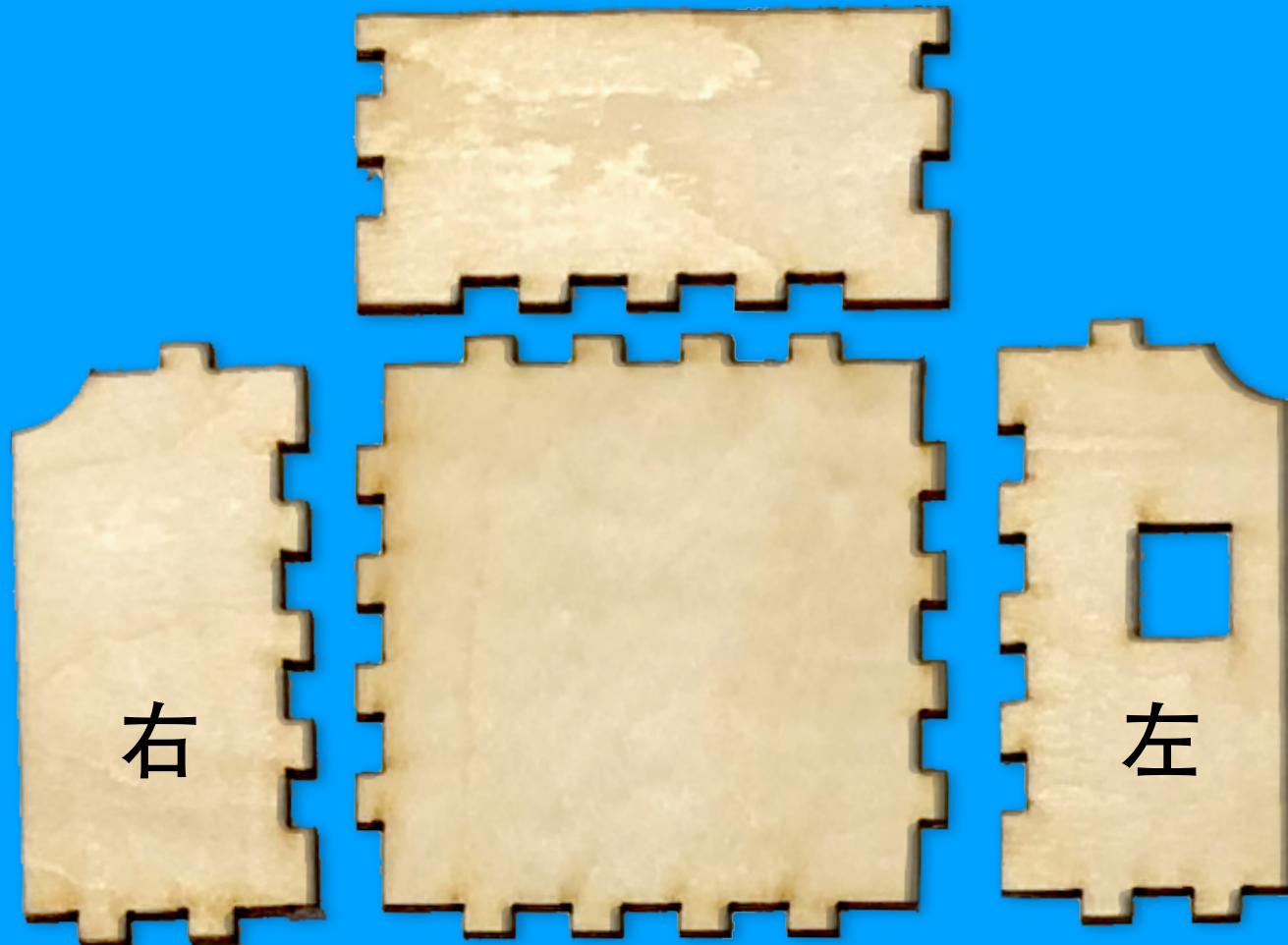


Step 6 上传测试

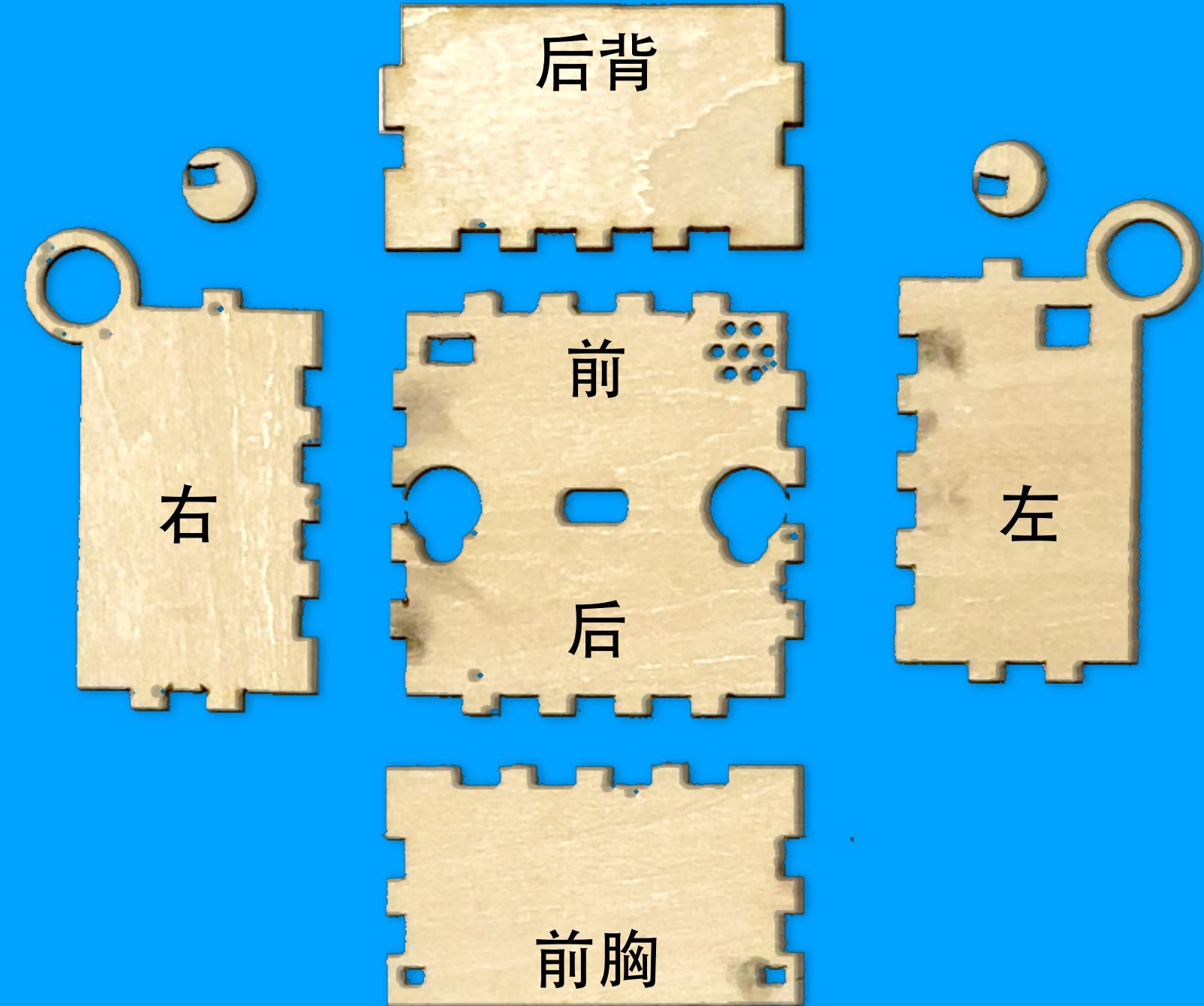


STEP

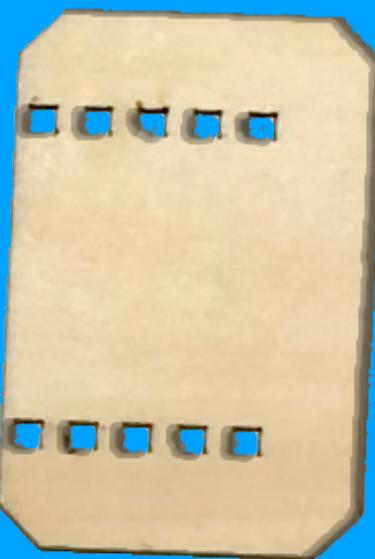
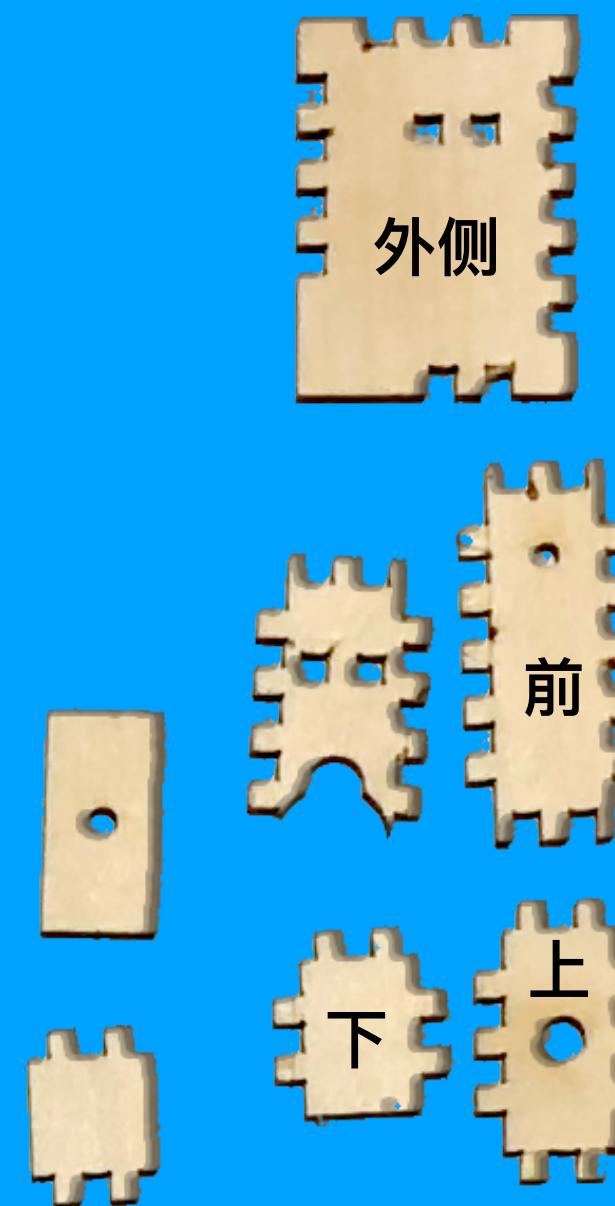
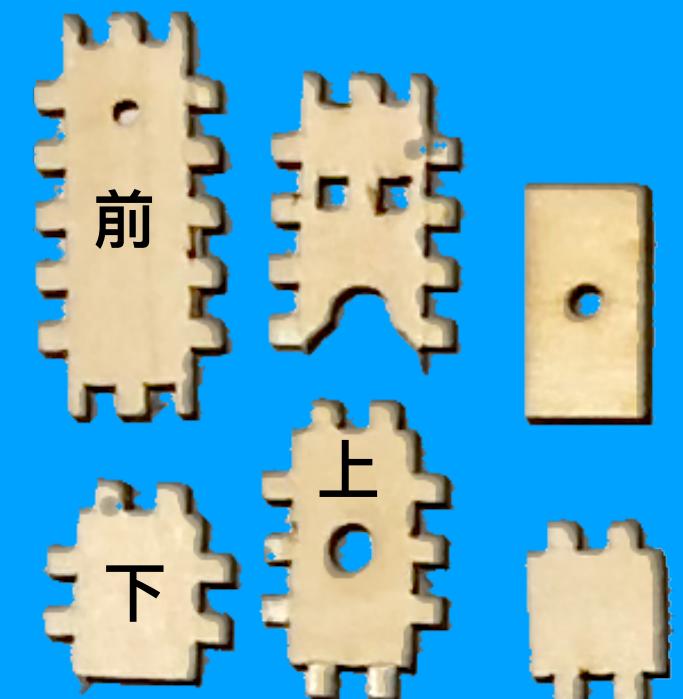
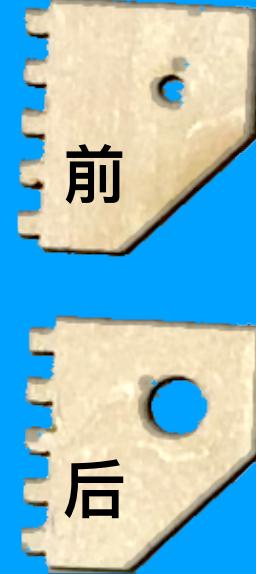
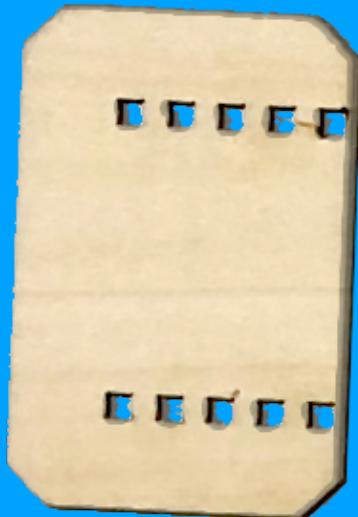
ASSEMBLING



1 HEAD



2 BODY



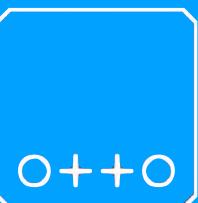
3 RIGHT FOOT

4 LEFT FOOT

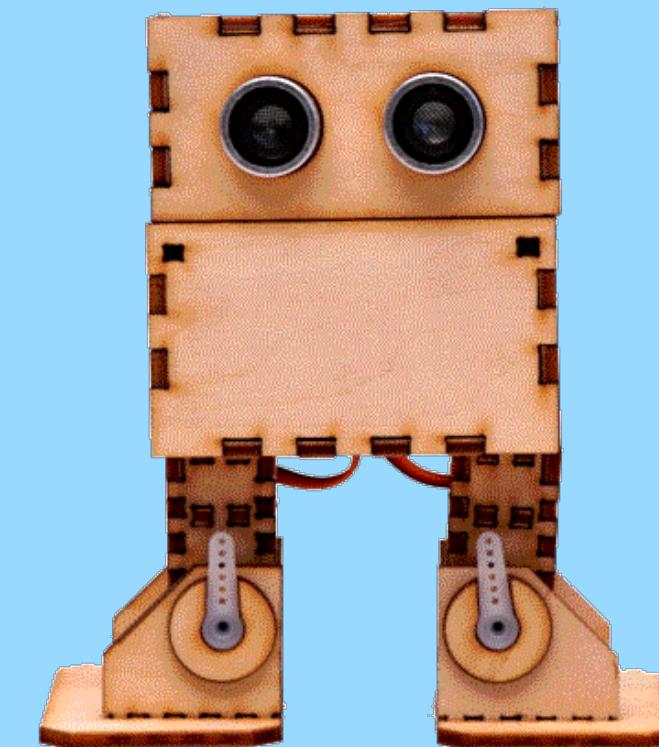


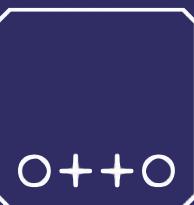
STEP

ADJUSTMENT



IT'S
YOUR
TURN
NOW



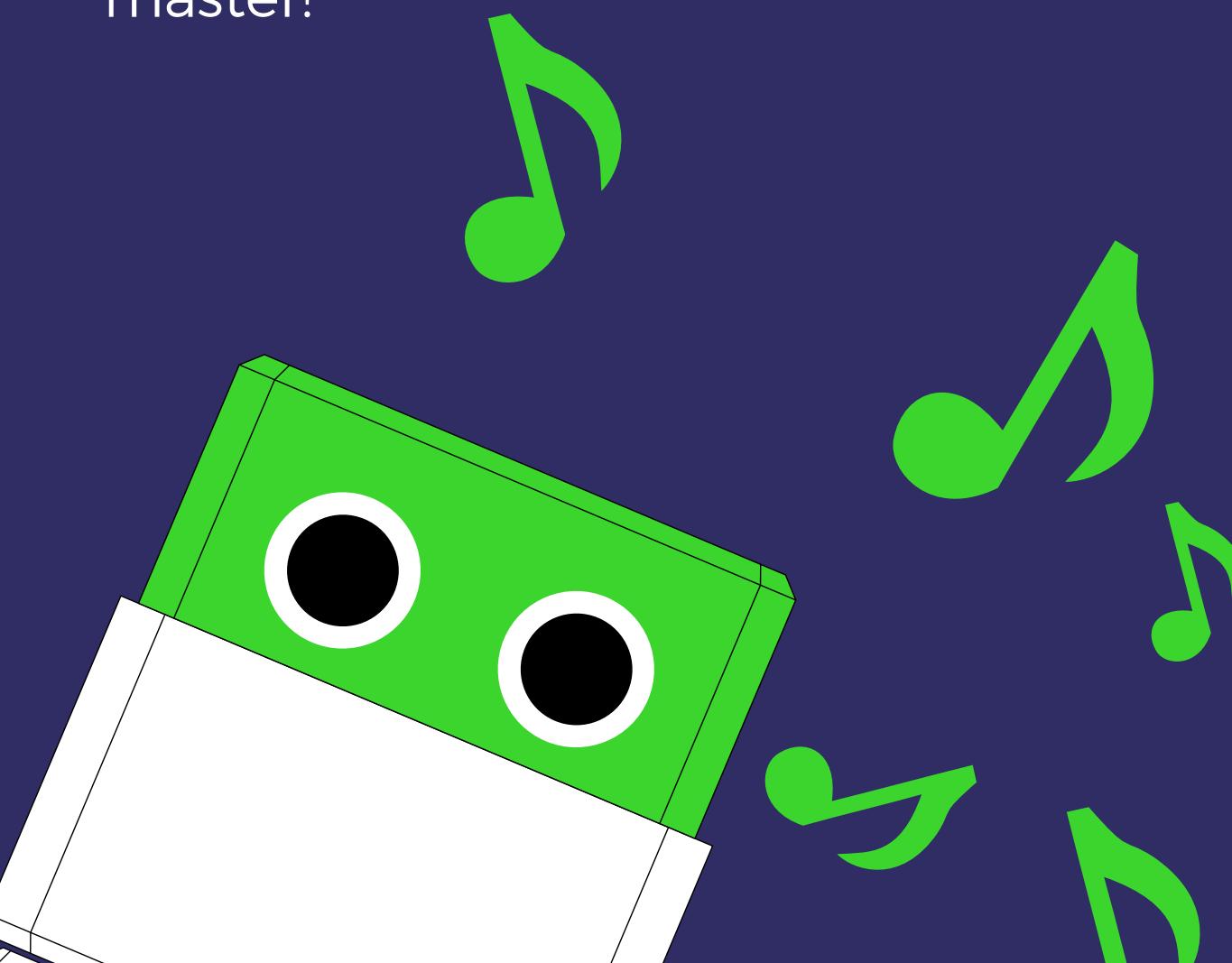


otto

CONGRATULATIONS

You just create your first Otto robot!

Join our community to learn more about
Otto robot. And become our next robot
master!



Otto Builder community

open network of robot builders & makers, like and follow us, join the **Otto Builder Club** of your country,
you will meet great and nice people with similar hobby like you, from all over the world!

