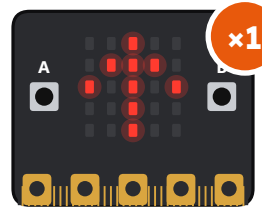


Build a Micro:bit car with 2 servo wheels

START A BIT · Explore. Build. Create.

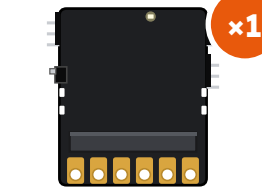
1 What you need



×1

Micro:bit

the brain: it runs your program



×1

Simple Servo board

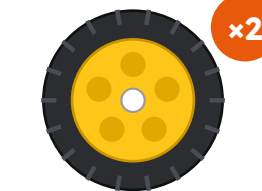
Kitronik 5673: holds the Micro:bit, the batteries and the servo plugs



×2

360° servo

for example FS90R. It must be 360°: a 180° servo cannot spin a wheel



×2

Wheel

pushes onto the servo shaft



×3

AA battery

go in the holder on the back of the board



×1

Stiff cardboard

the car body, about 9 cm × 14 cm



×1

Skid

a bottle cap or a big bead: it slides under the back



Rubber bands, tape

double-sided tape or hot glue for the servos

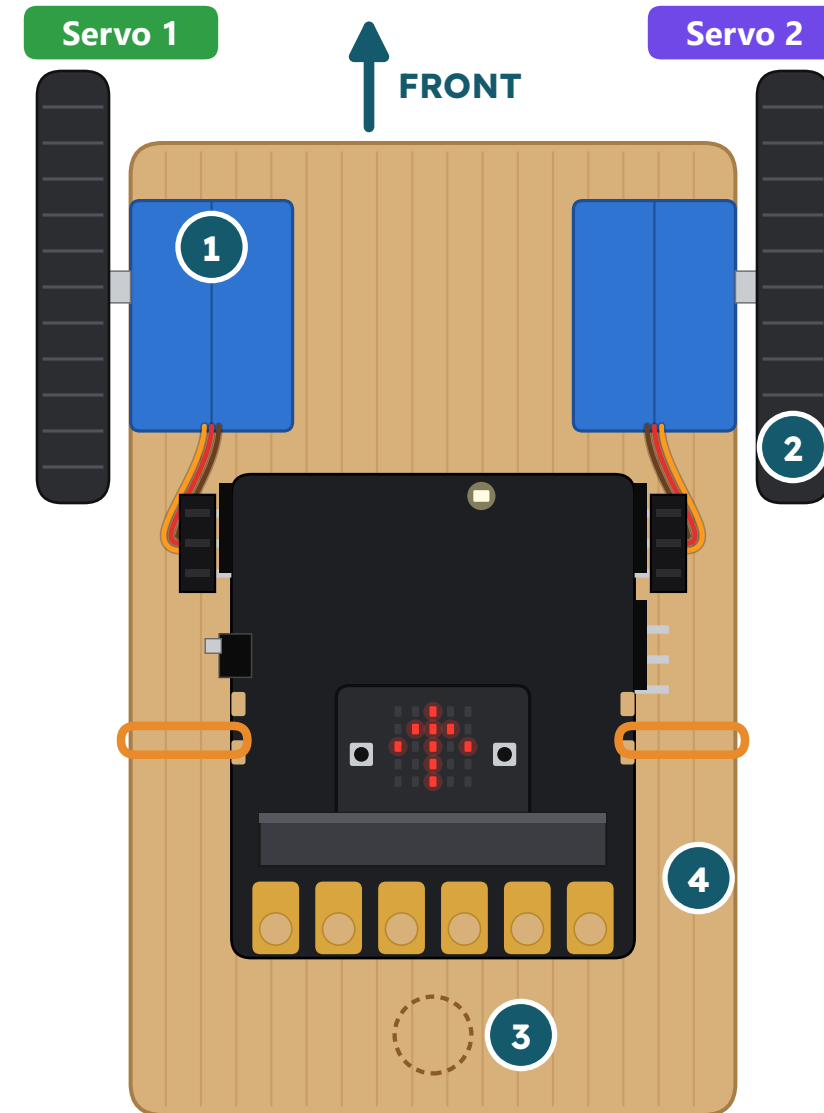


×1

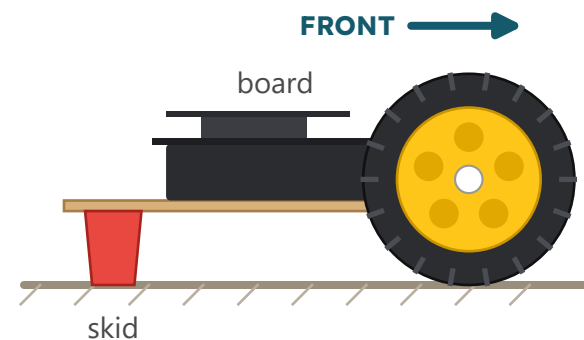
USB cable

to download your program to the Micro:bit

2 Build it

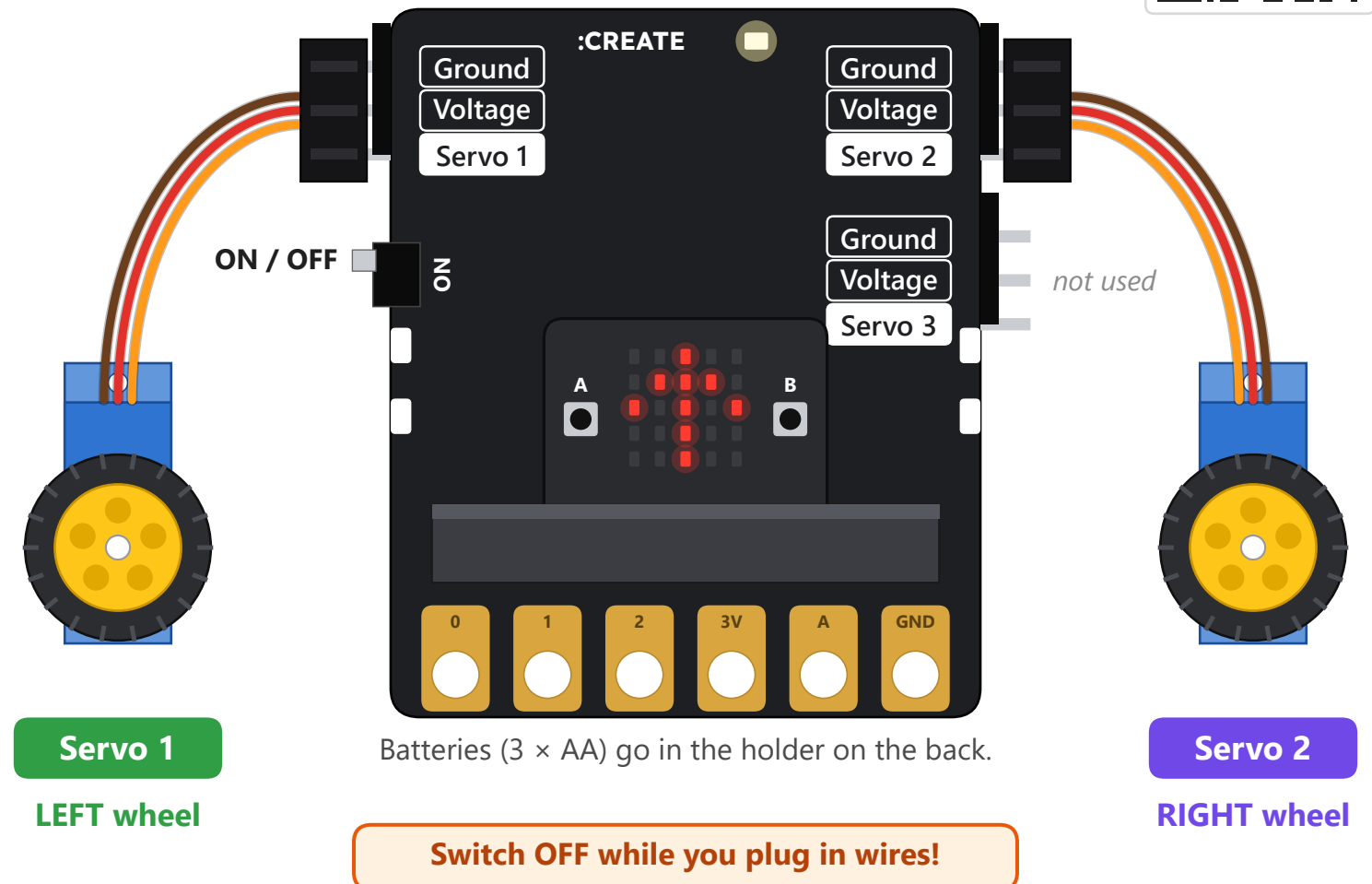


- 1 Stick a servo on each front corner of the cardboard, shaft pointing out.
- 2 Push a wheel onto each shaft.
- 3 Glue the skid under the back, so the car stands level.
- 4 Put 3 AA batteries in the back of the board, plug in the Micro:bit (LEDs up), lay the board flat and hold it with rubber bands on the side lugs.
- 5 Plug in the servo wires (see 3) and tape the spare wire down.

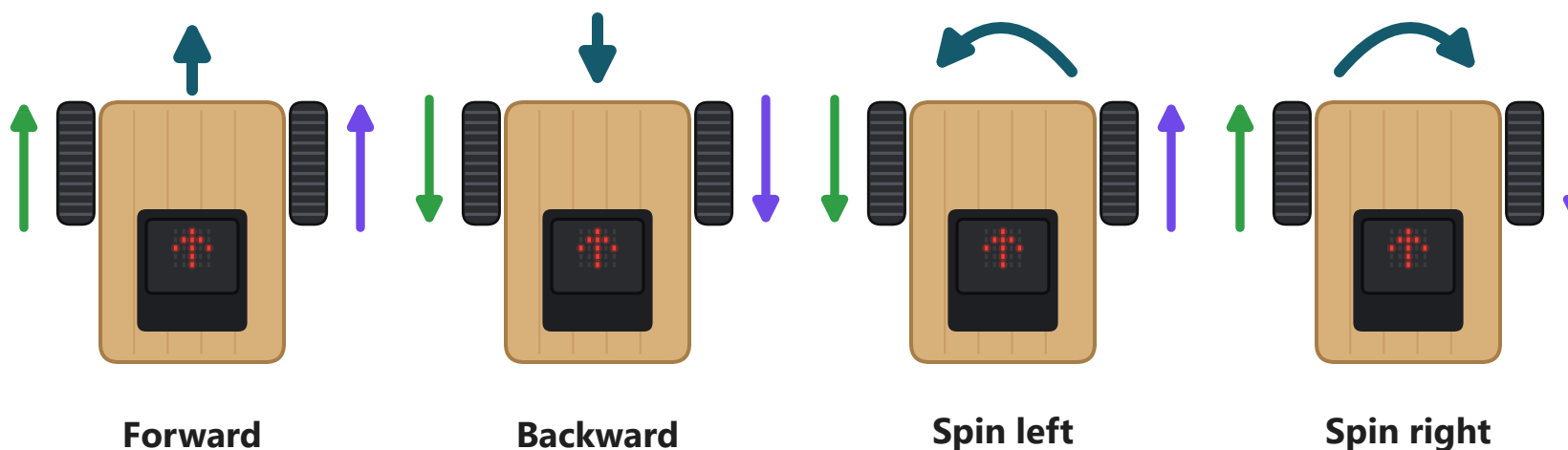


3 Wire it

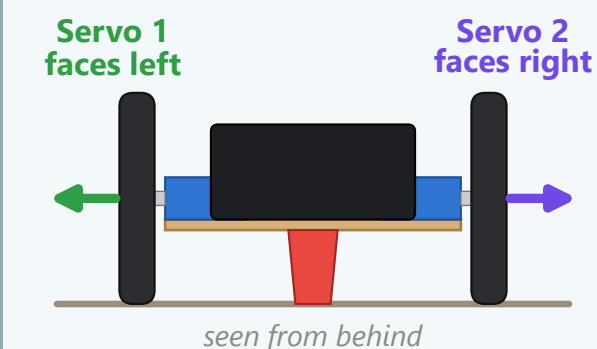
- brown or black → Ground
- red → Voltage
- orange, yellow or white → Servo pin (signal)



4 Make it move



The two servos face opposite ways



Forward: Servo 1 counter-clockwise, Servo 2 clockwise.
Car goes backwards? Swap both.
Car spins round? Swap one of them.
Test with the wheels in the air first.
MakeCode: Extensions → "Simple Servo"