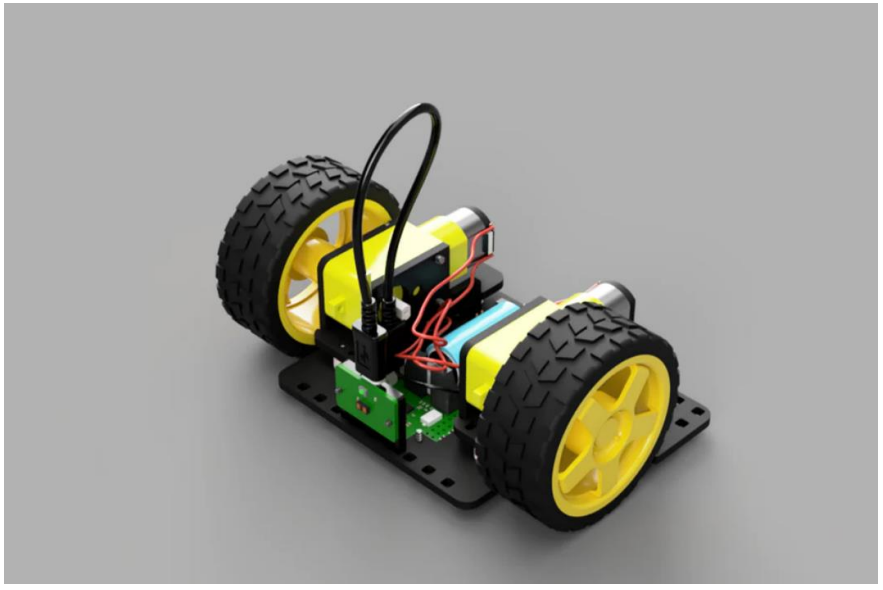
Scout Quick Start Guide

Build and drive your personal Robot!

Drive your Scout Robot!

Build and play robot that uses as student friendly coding environments based on block coding or JavaScript.



Features

- Control robot via Scratch software or Virtual Remote
- Various code examples provided across every platform
- Simultaneous Motor control
- Bluetooth 5 for increased range
- Access to STEM based lessons, experiments, and coding examples to enrich the learning experience

Designed for teaching

- Robotics
- Computing
- Circuitry
- IoT
- Logic
- Block Coding

package includes

- 1 Scout Robotics Kit
- 1 MODi sensor
- 1 Battery Charger
- Unlimited access to MantisCode

MantisCode is compatible with

chromebook · Windows 7 · Mac · Scratch · RaspberryPi

Charge your battery First!

ICR 18350 (Use Only)

- **Size: (18.3 x 35 x 35 mm)**
- **Maximum Continuous Charging Current (1A)**
- **Standard Continuous Charging Current (220mA)**
- **Charging Temp: (41F to 115F)**

Battery Polarity (+)

Positive terminal of your battery should be inserted this direction.

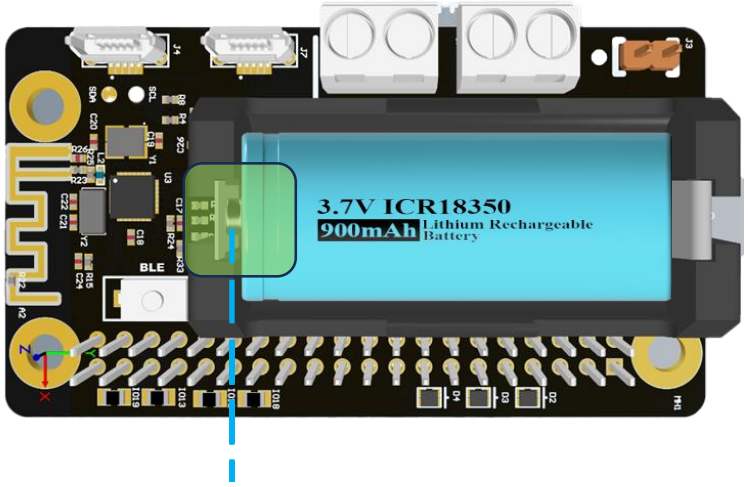
Charging Temp: 41F to 115F

Charging Temp: 41F to 115F

Charge Complete

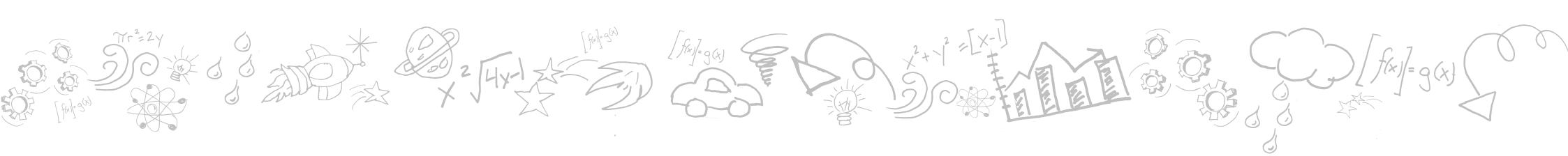
Battery now ready to power your Mantis Scout Robot!

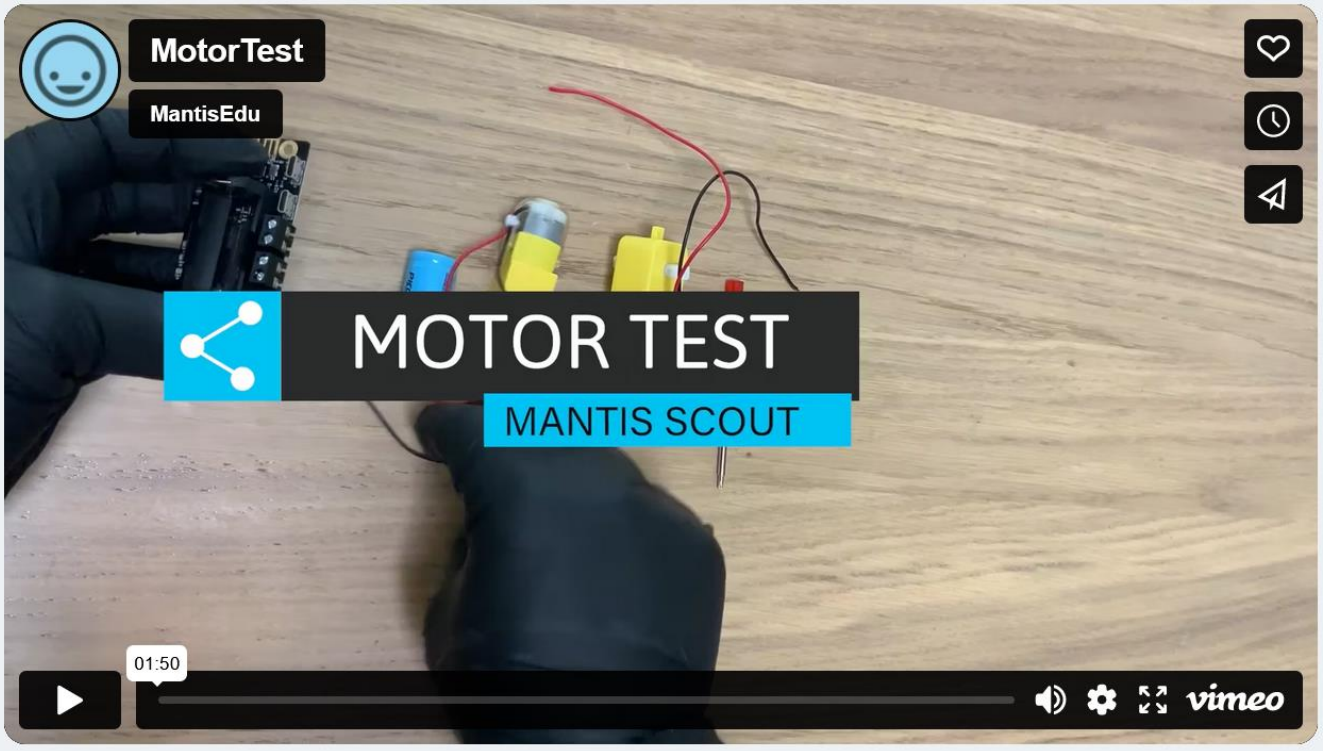
Check polarity on the install!



Battery Polarity (+) Direction

Positive terminal of battery should be facing this way.



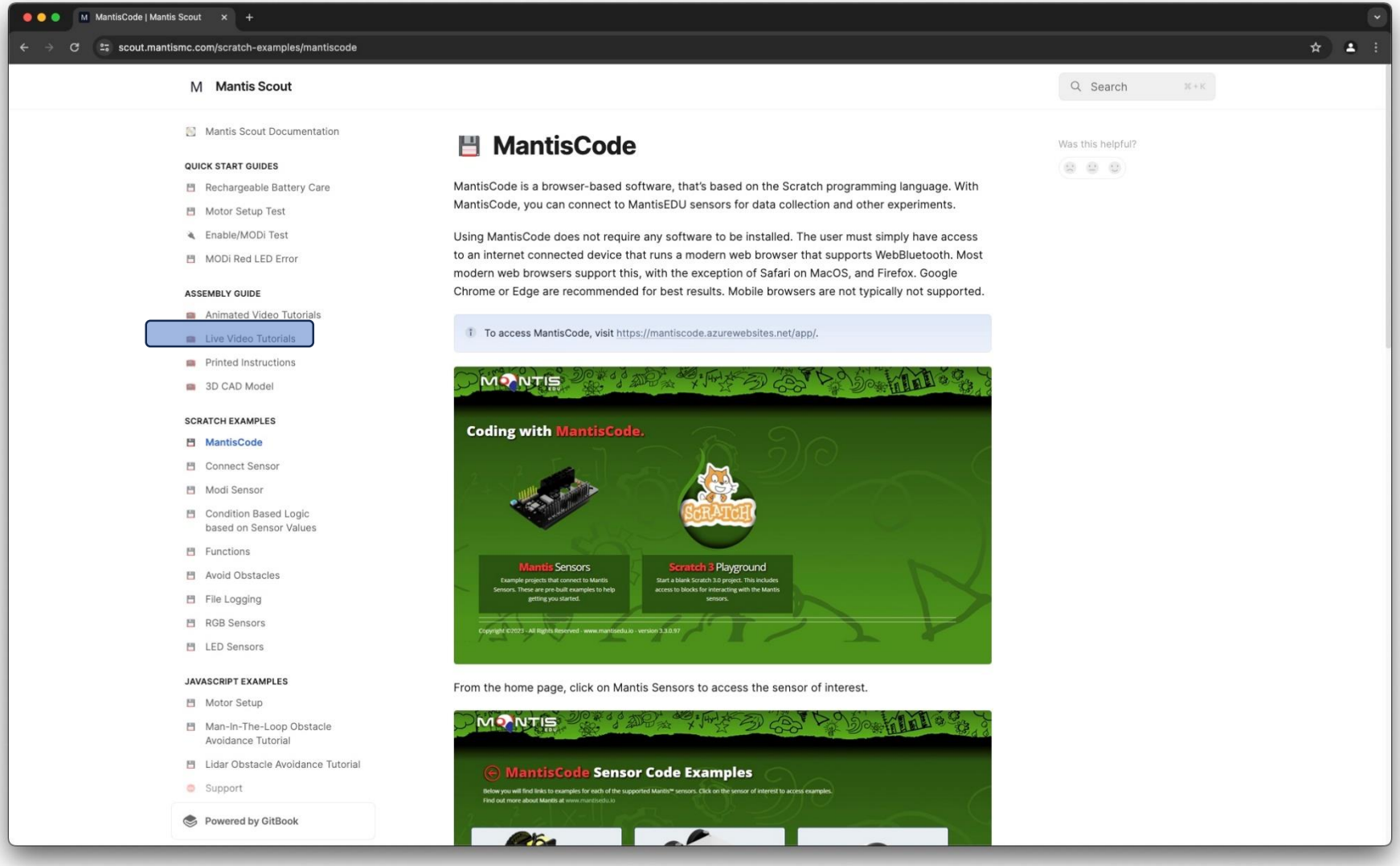


Before you code, now would be good time to check out the Motor Test Example:

https://scout.mantismc.com/quick-start-guides/motor-setup

Follow this link to access the screen below.

https://scout.mantismc.com/scratch-examples/mantiscode

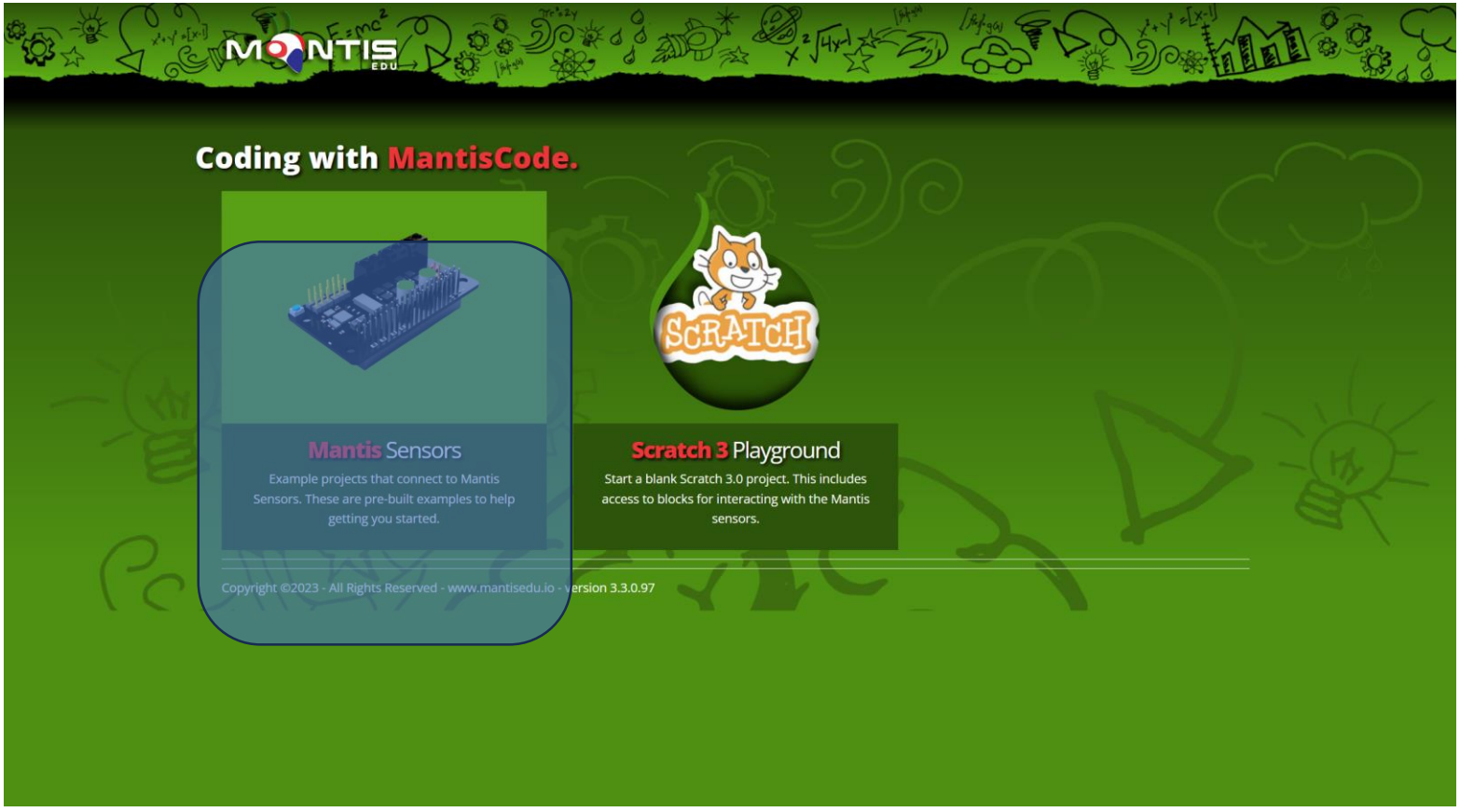


Mantis Code Link

Click here for preloaded Scratch Examples

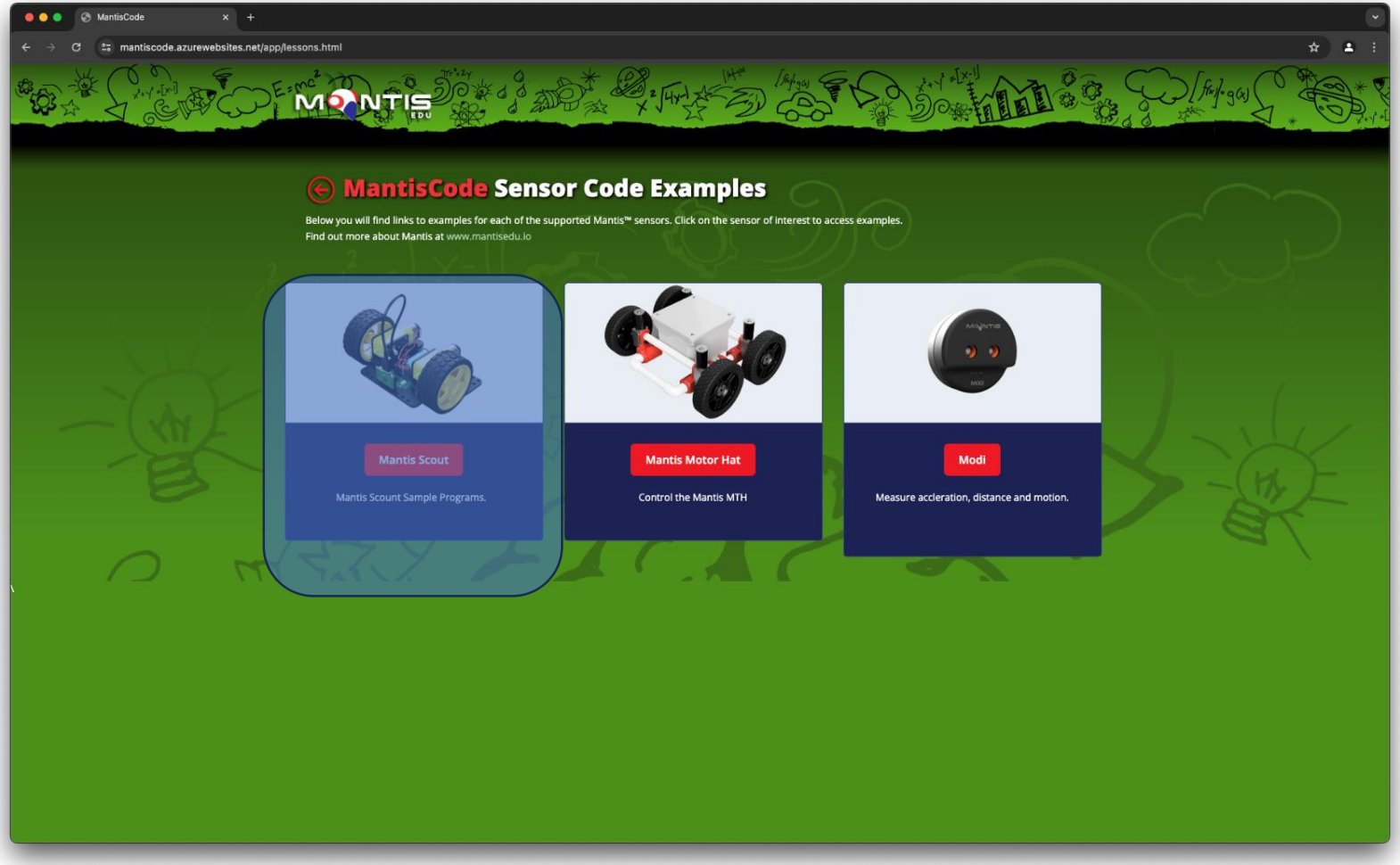
Mantis Code Link

Navigate the Sensors tile to the Scout Examples



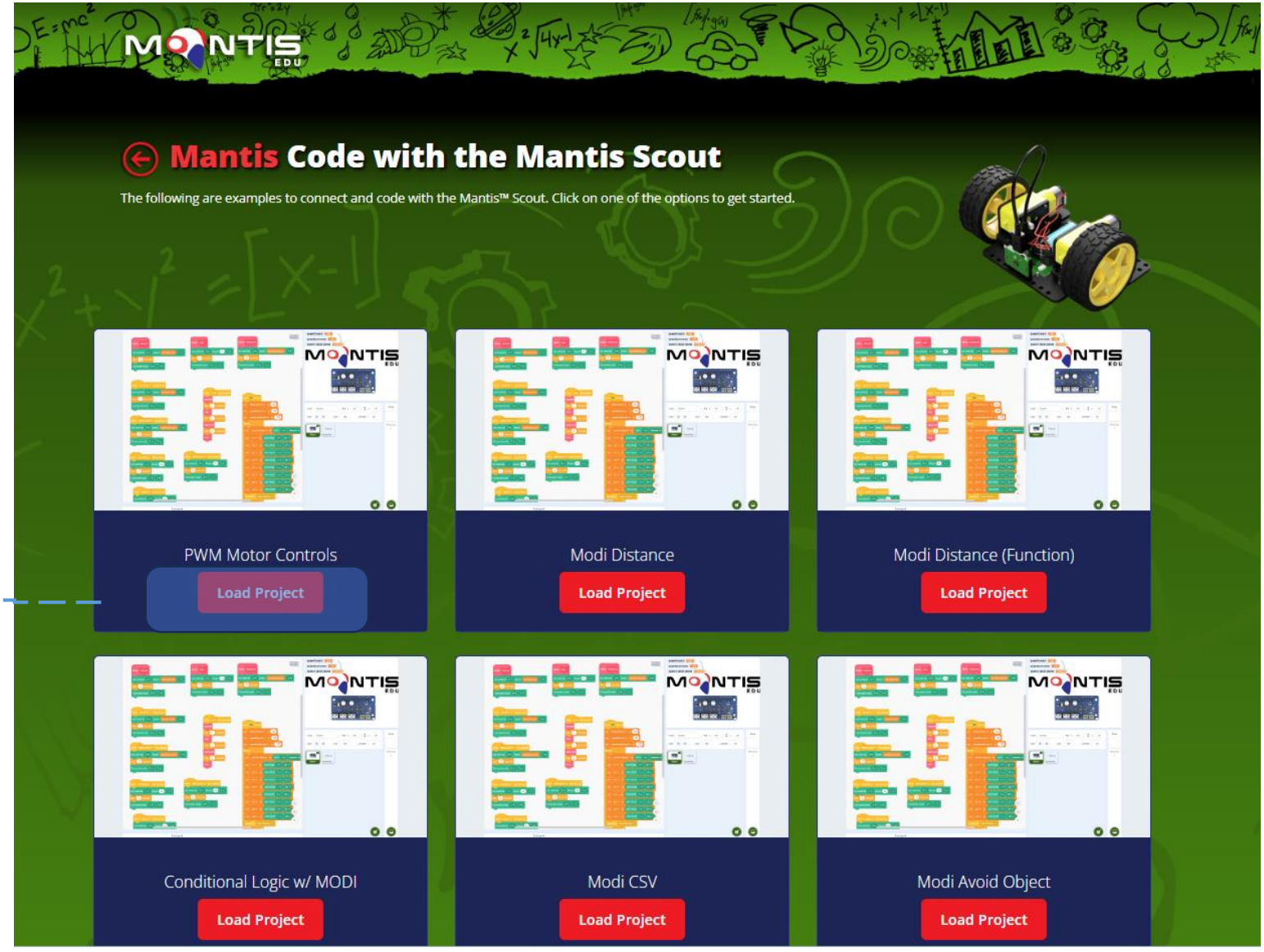
Mantis Code Link

Navigate the Sensors tile to the Scout Examples



PWM Motor Control Example

Let's check out the PWM Motor Control Example



Step 2

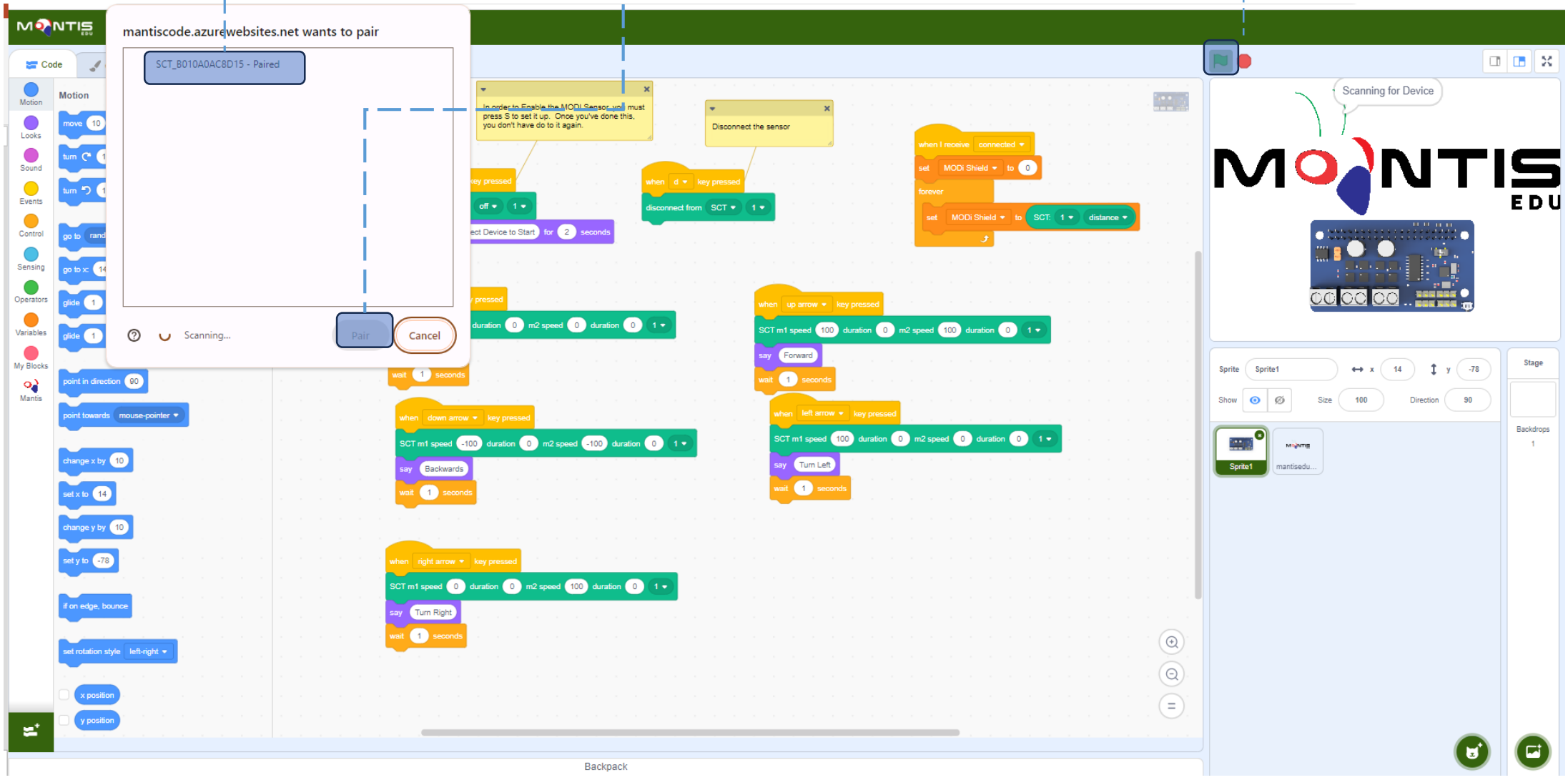
Click to select the desired sensor you want to connect with

Step 3

Press the Pair button to complete the process

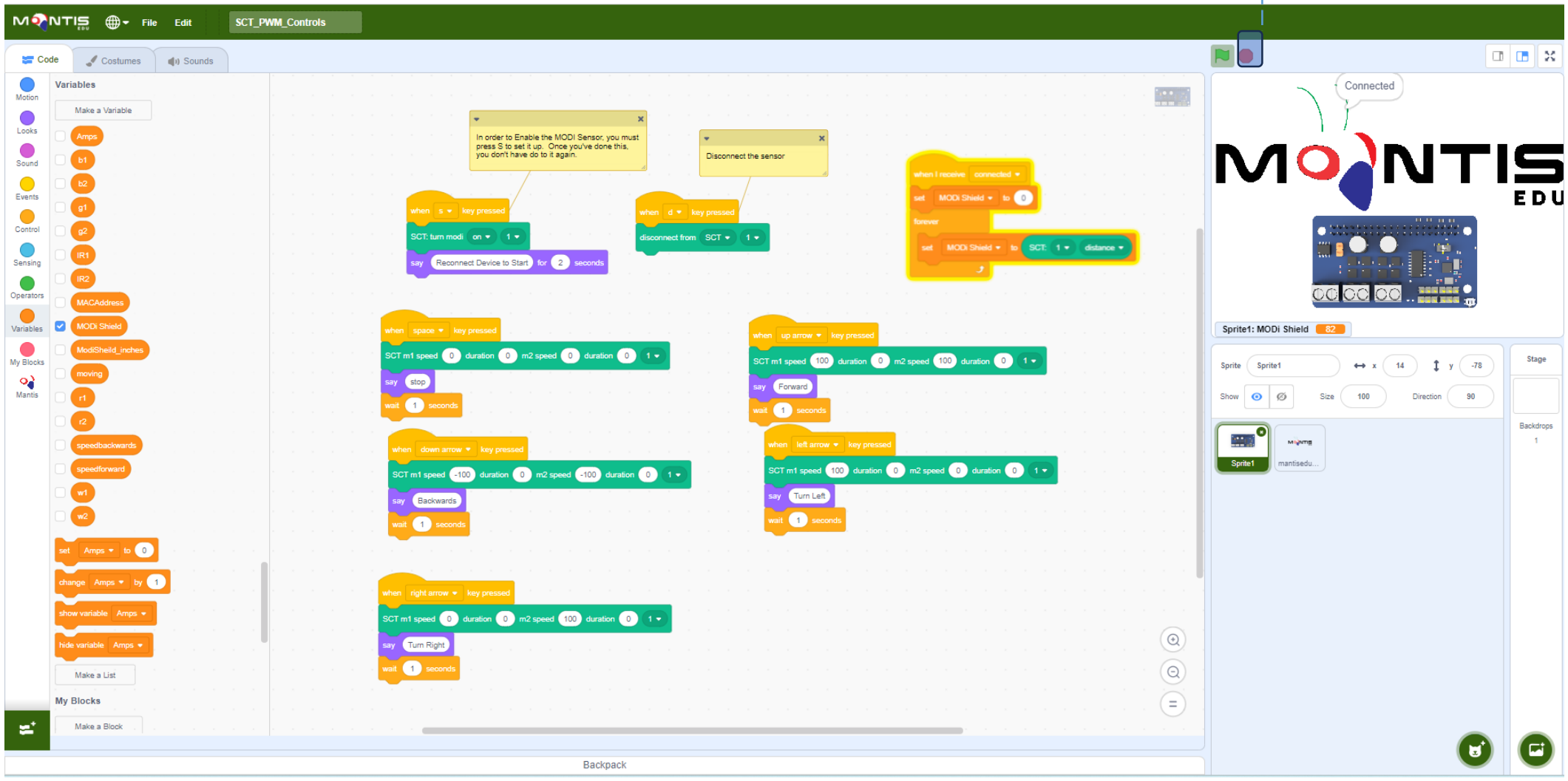
Step 1

Press the Green Flag to Start the Program



Stop Command

Press the Red Circle to stop the Program

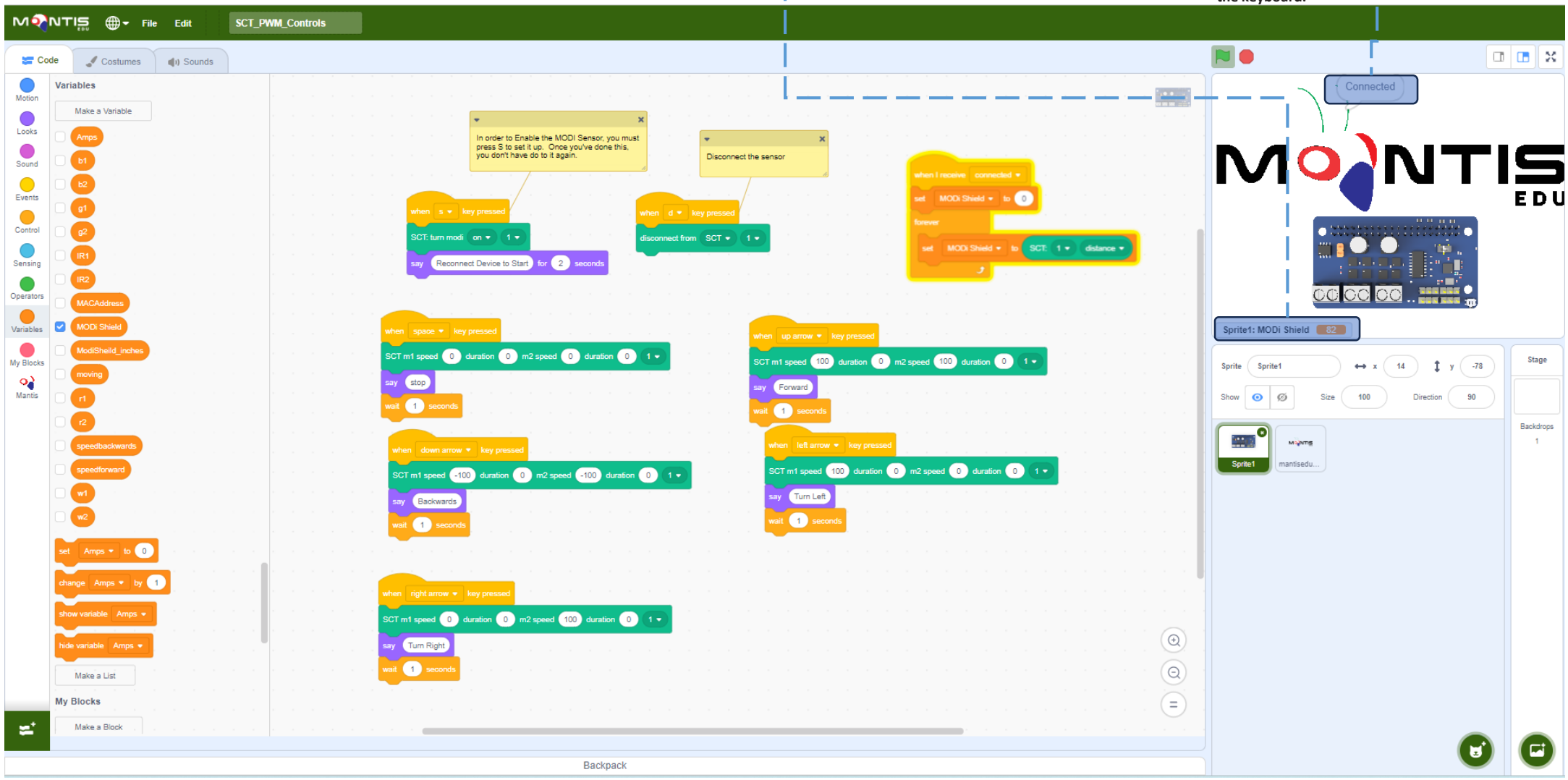


Modi Shield Value

If the Modi is enabled, the distance value will display here.

Verify Connection

Once connection, the status label should now say connected. Now, you can issue commands using the keyboard.



Program Command Legend

Space Bar Command

Press the space bar to stop both motors

Up Arrow Command

Press the up arrow to move both motors forward

Down Arrow Command

Press the down arrow to move both motors backwards

S Key Command

Press S key to enable the Modi sensor. Only needed once! Device will reboot after.

Right Arrow Command

Press the right arrow motor 2 only

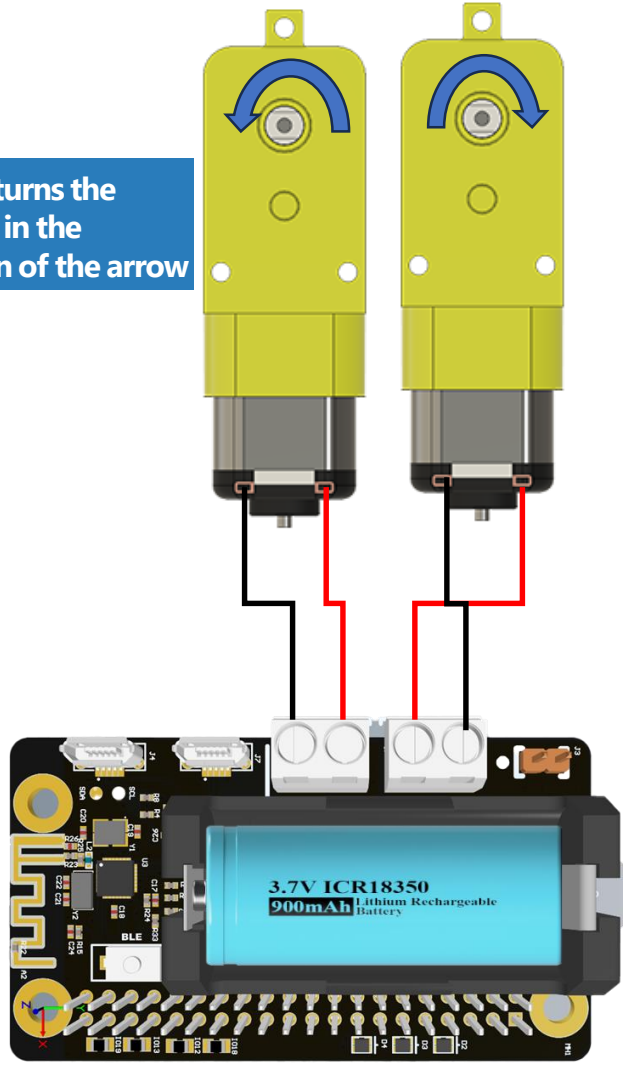
Left Arrow Command

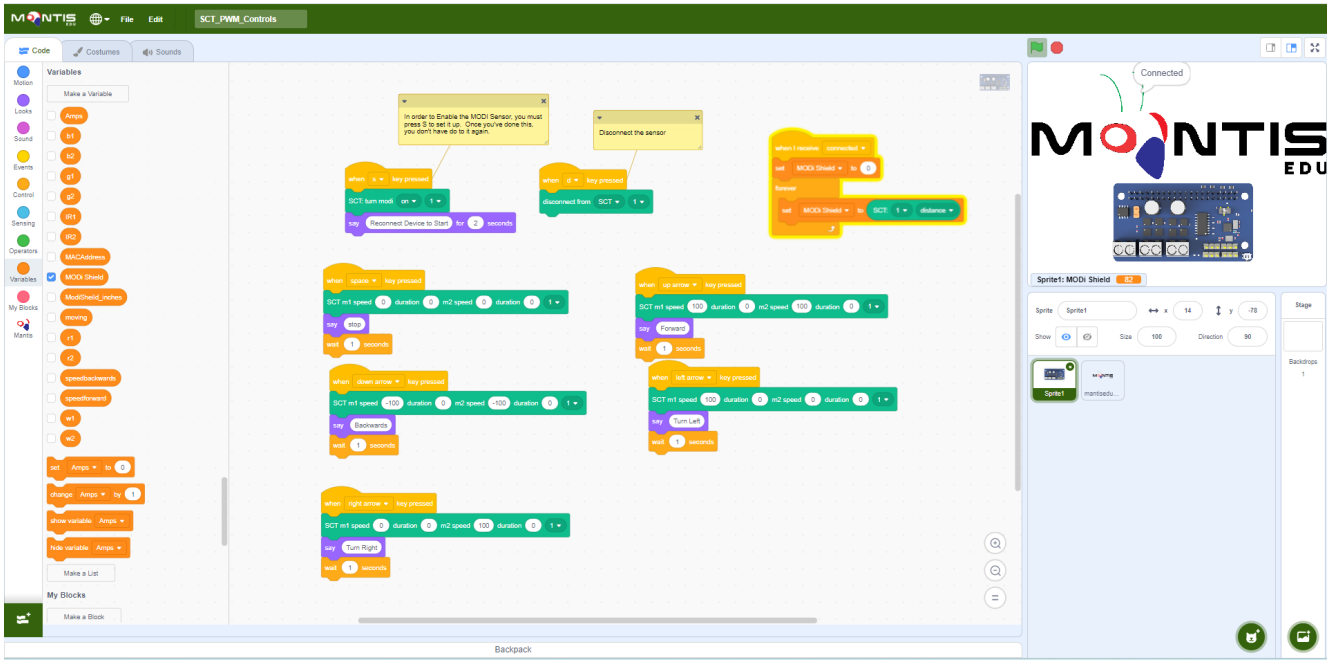
Press the left arrow to move motor 1 only

D Key Command

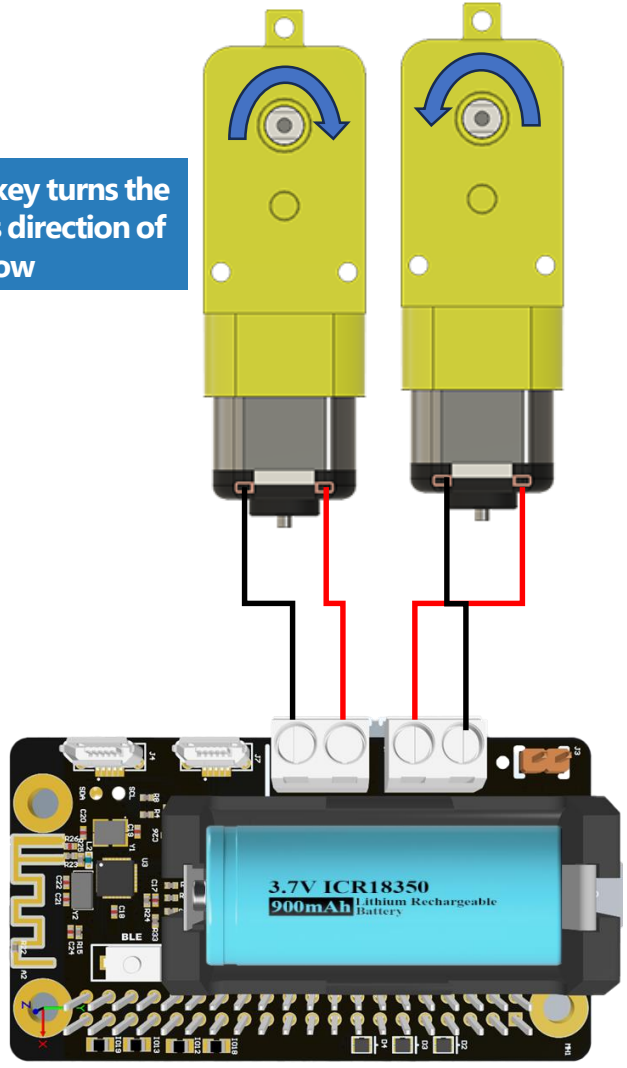
Press the d key disconnect from the sensor

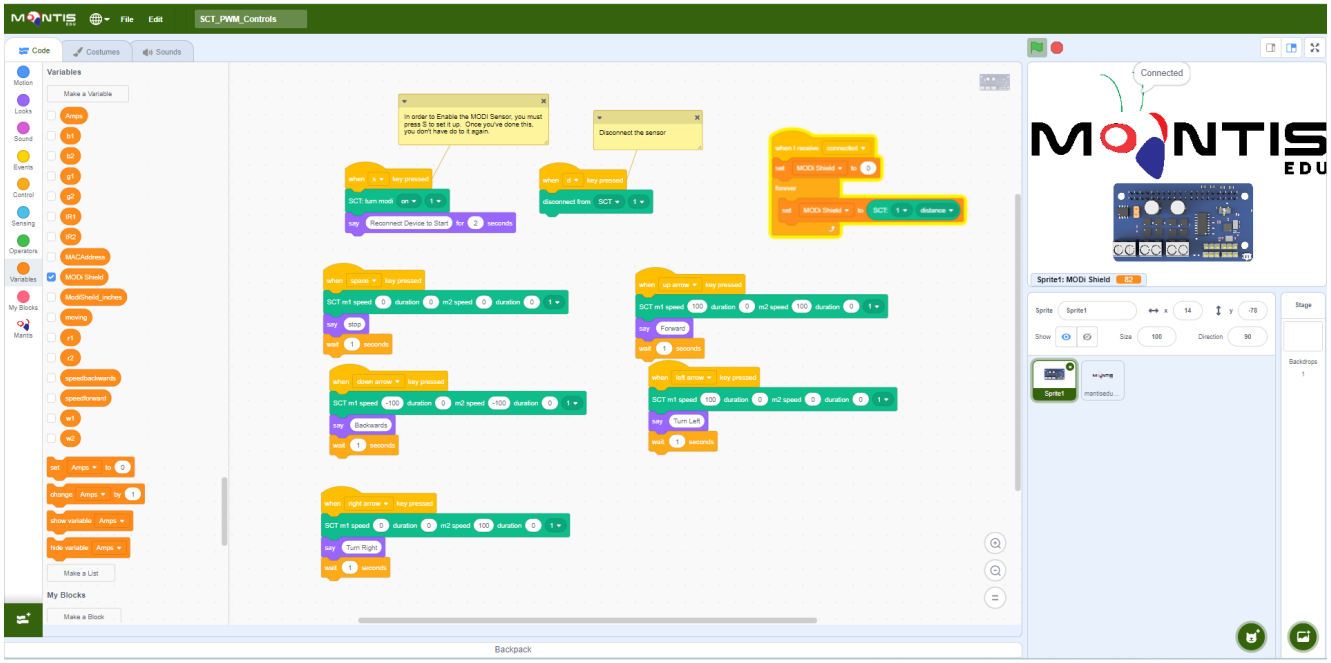
Up key turns the motors in the direction of the arrow



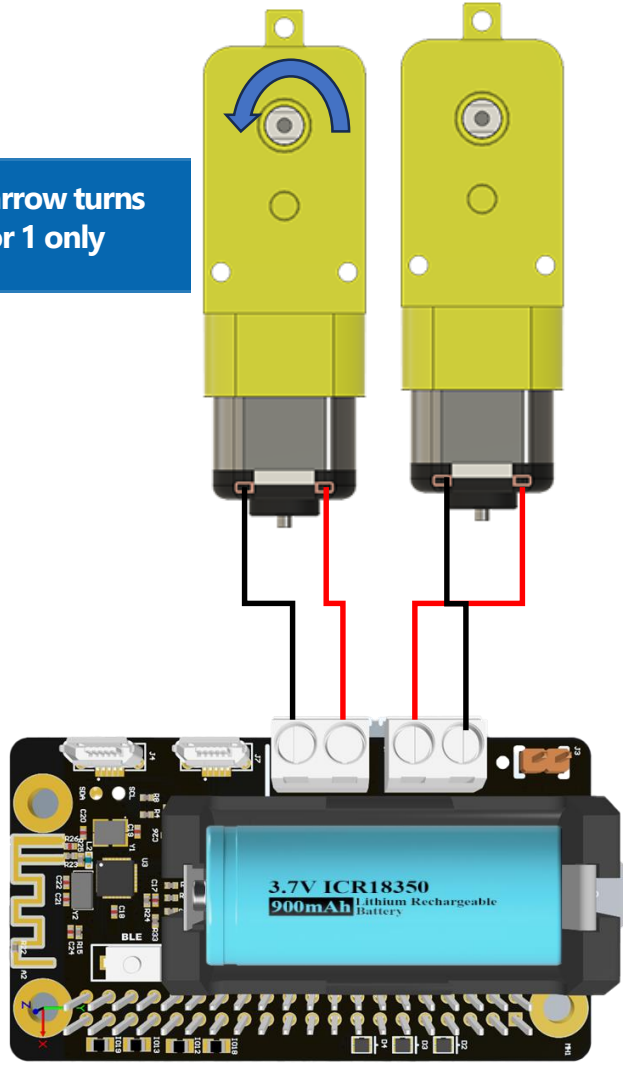


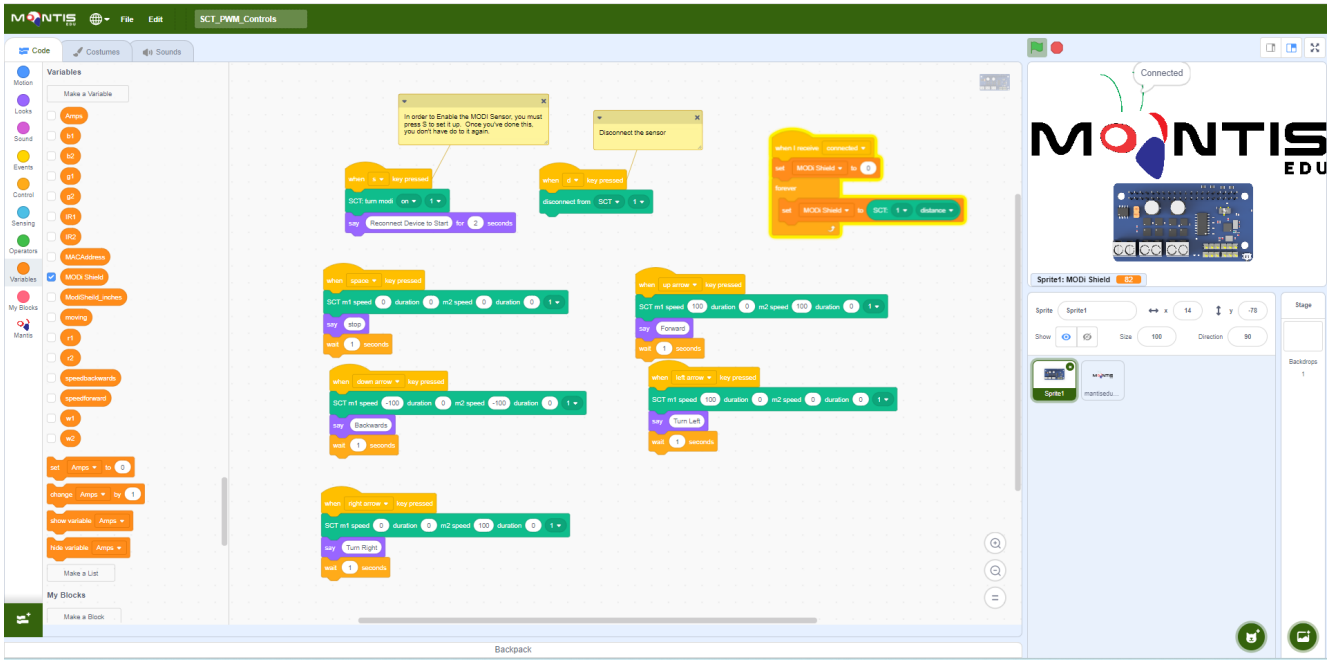
Down key turns the motors direction of the arrow



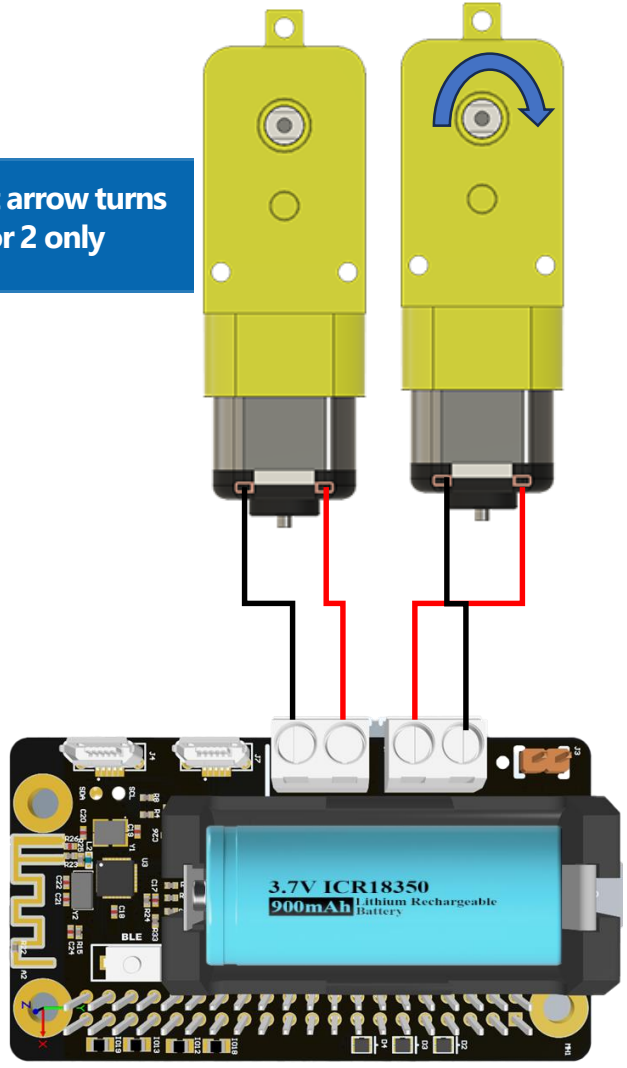


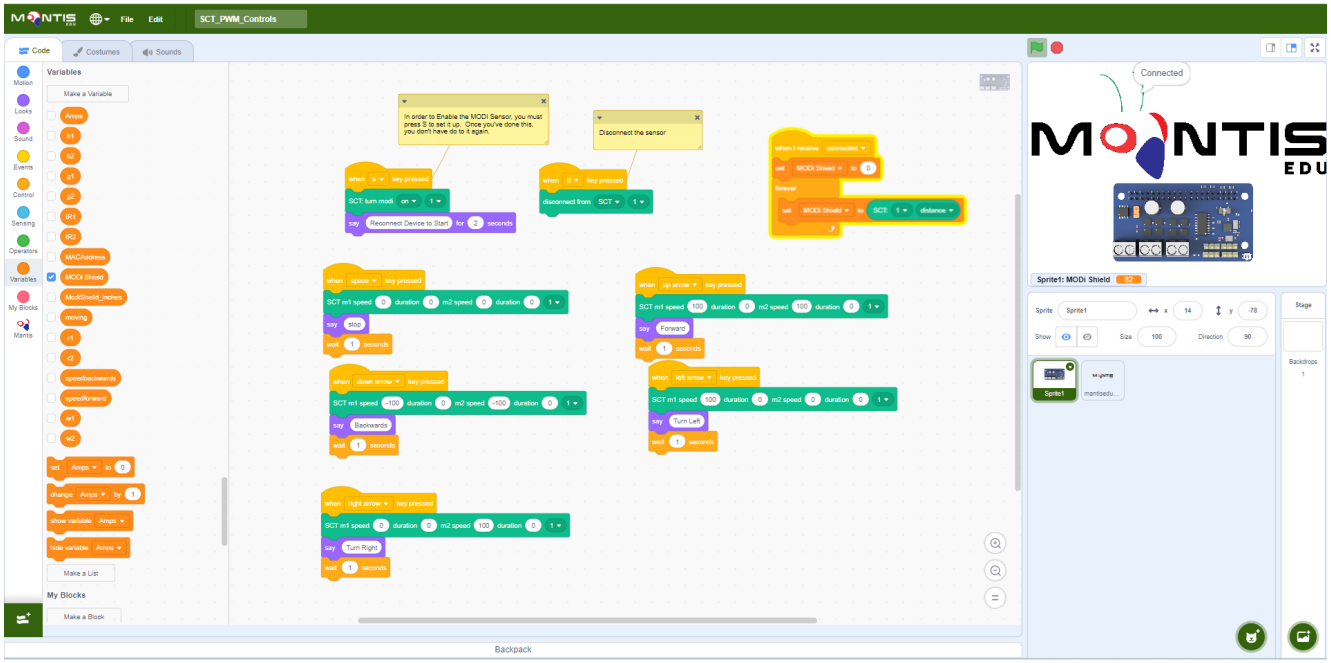
Left arrow turns Motor 1 only



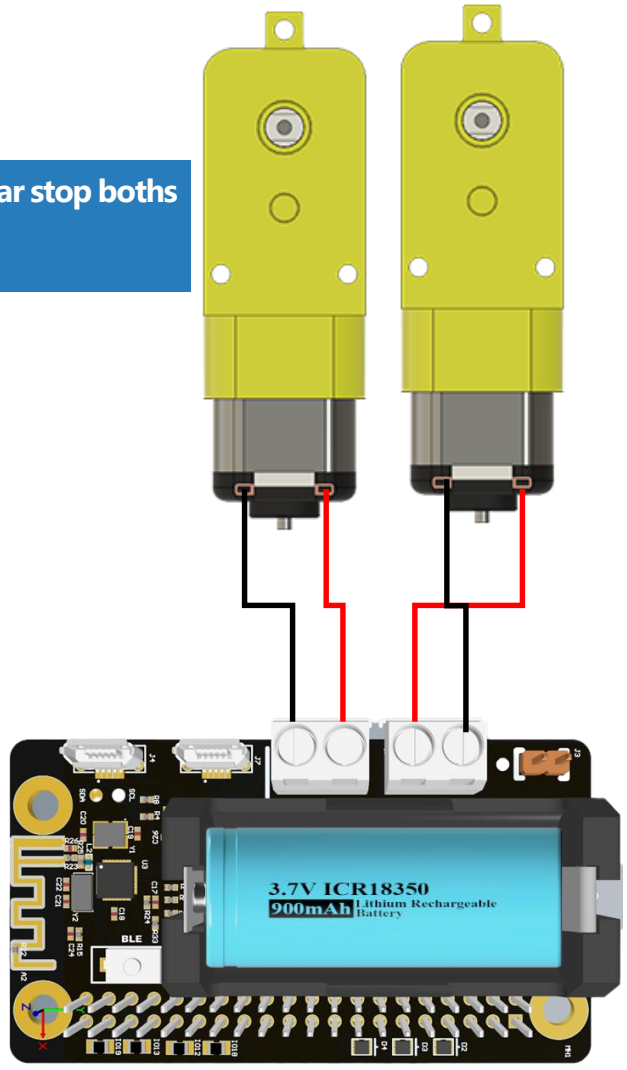


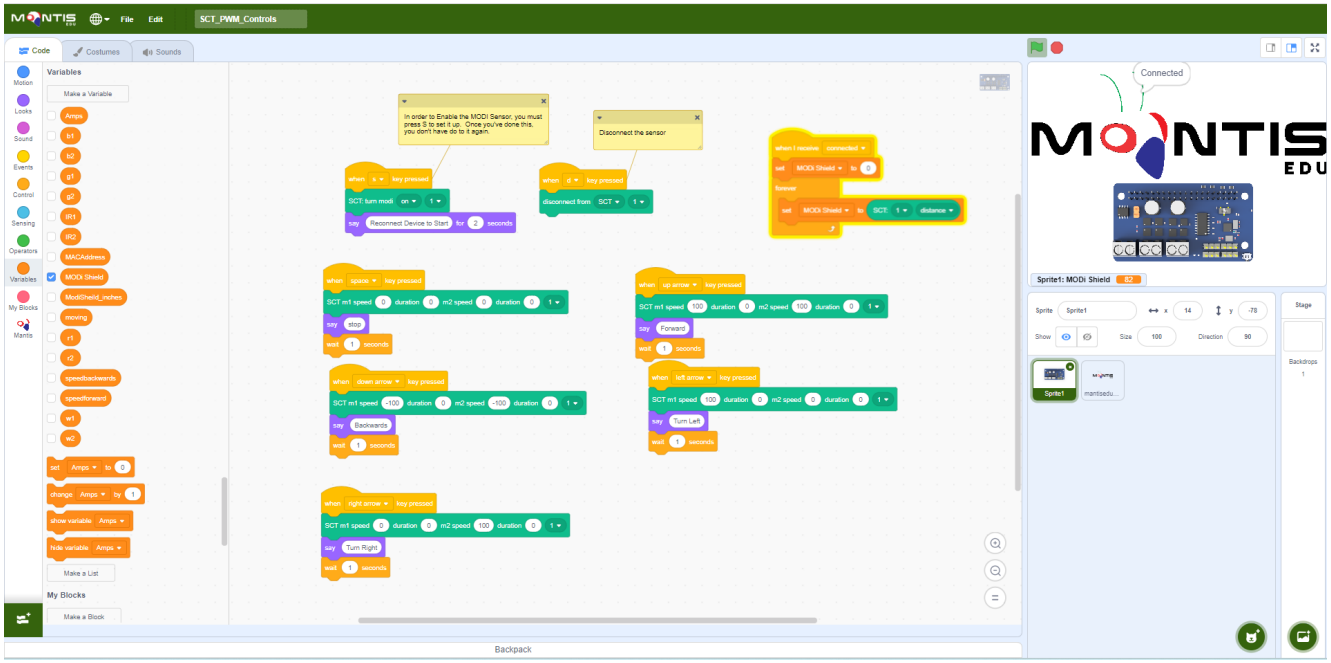
Right arrow turns Motor 2 only



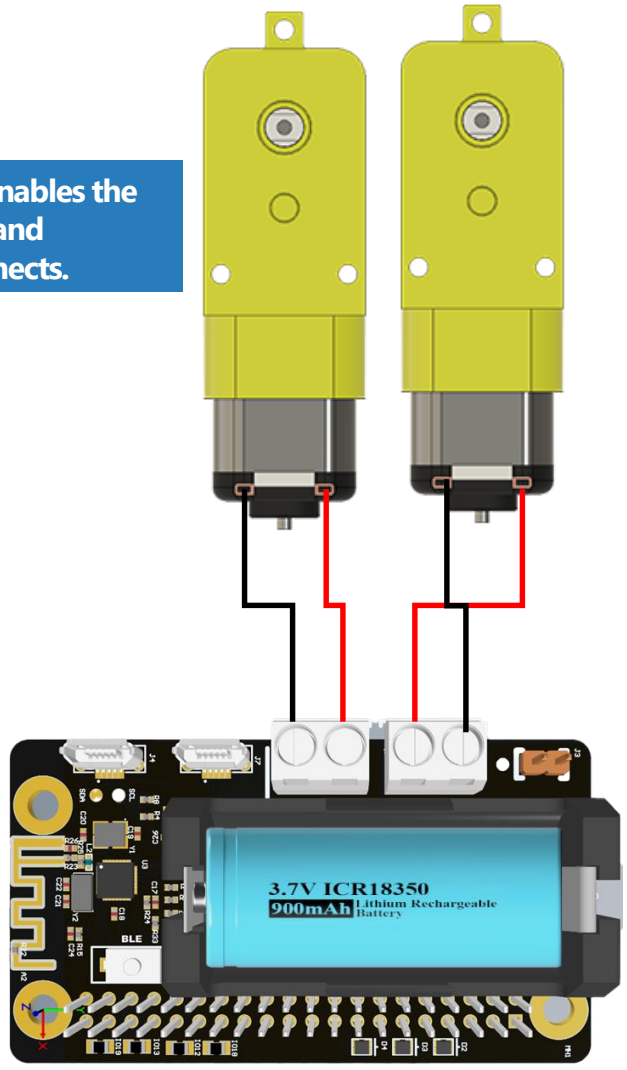


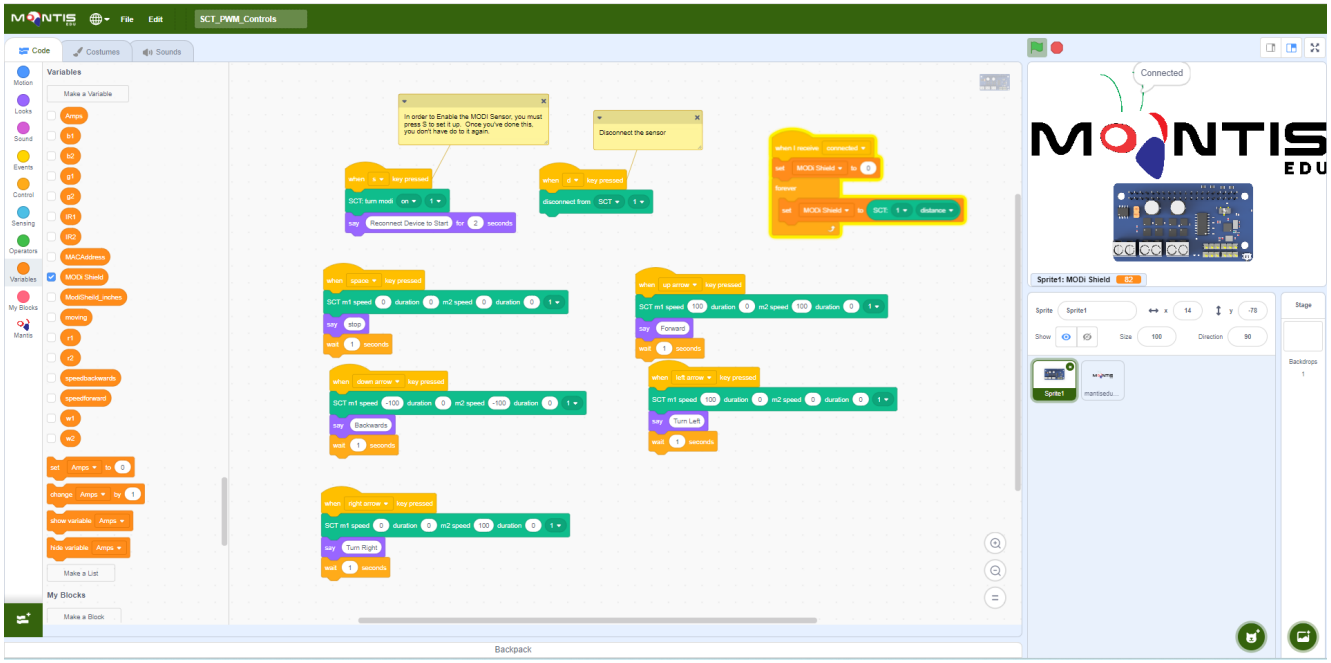
Space bar stop boths motors





S key Enables the MODI and disconnects.





D key disconnects the Motorhat