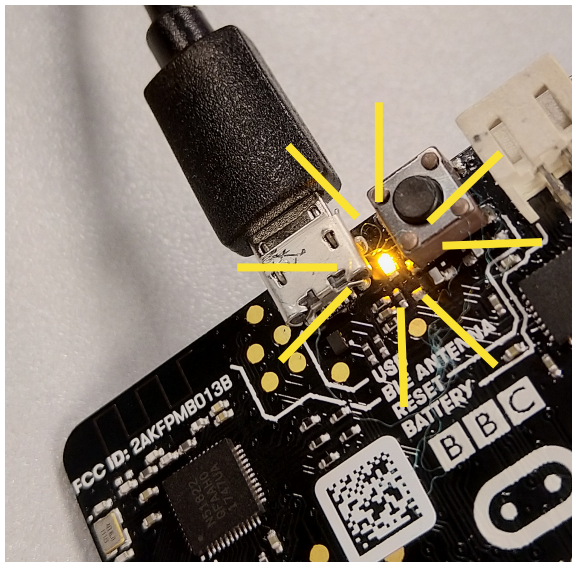# MAKEKIT

Hover:bit

With iPhone/iPad

Connect and install code

1. Download the iOSApp hex-file from the hoverbit instructions page
2. Connect the micro:bit with a mini USB cable
3. MICROBIT drive shows up
4. Copy the .hex-file to MICROBIT
5. Watch the orange light under micro:bit blinking during transfer

Disken

Remote Disc

MICROBIT

Shared

Pro tip:
The hex-file can be imported into the makecode editor (makecode.microbit.org) if you want to explore or change the code. (See page 9)
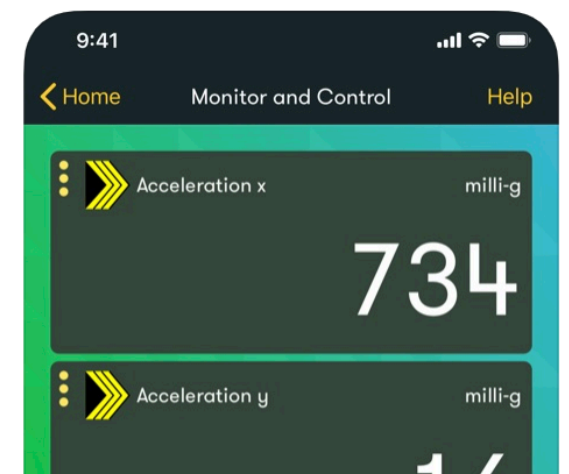
Download the app

App Store Preview

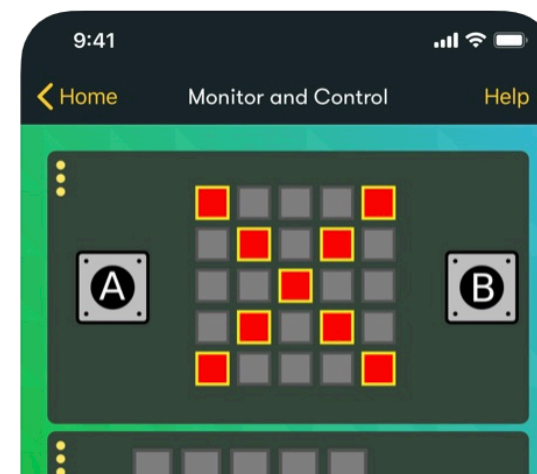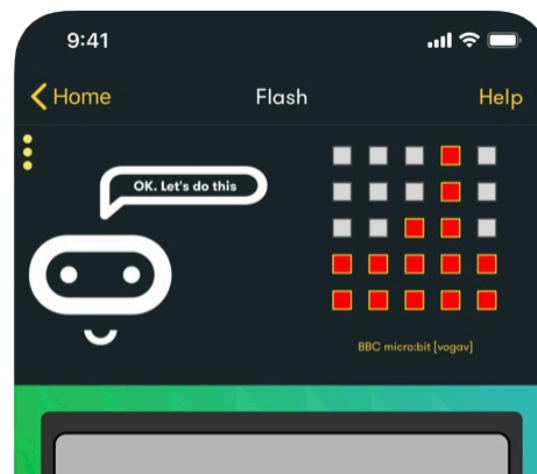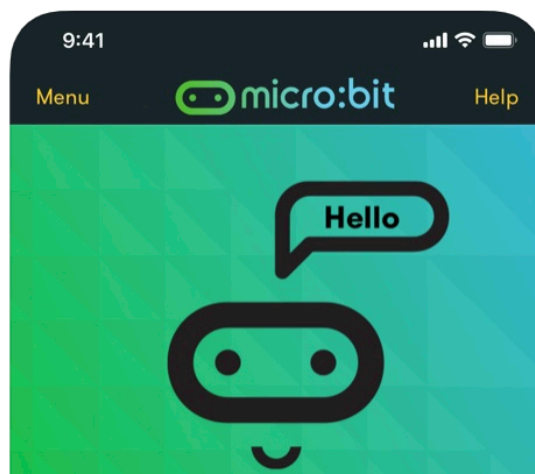### micro:bit   4+

Laurence Rogers

★★★★☆ 3.9, 8 Ratings

Free

Screenshots   iPhone   iPad

|			
9:41	9:41	9:41	9:41
Menu micro:bit Help	Home Flash Help	Home Monitor and Control Help	Home Monitor and Control Help
Hello	OK. Let's do this BBC micro:bit [vogav]	A B	Acceleration x milli-g 734 Acceleration y milli-g

Connect

Select "Choose micro:bit"
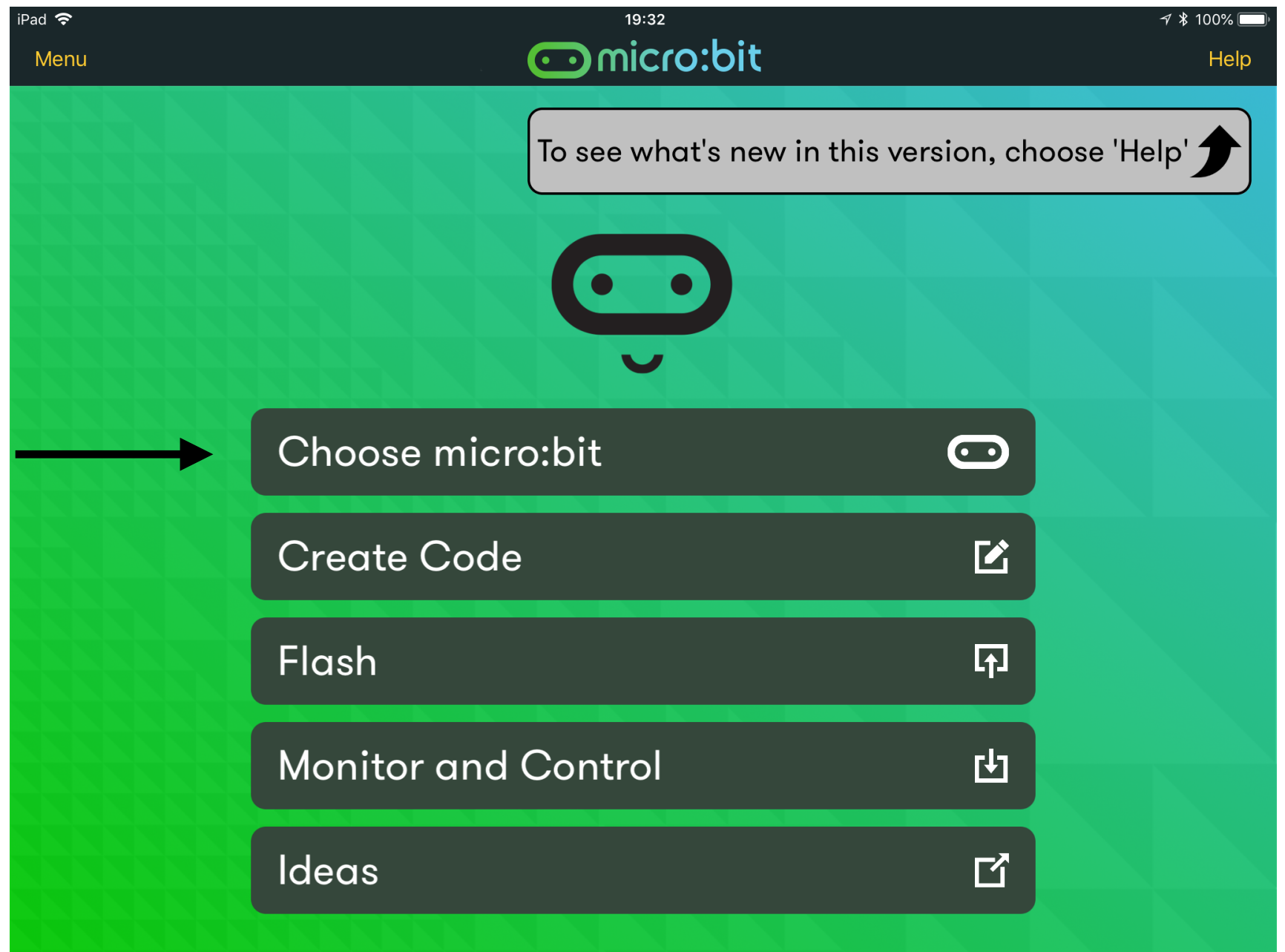
Connect

Power on the micro:bit from battery or USB.

Follow the instructions in the app to pair the microbit.

HOLD the A and B buttons and
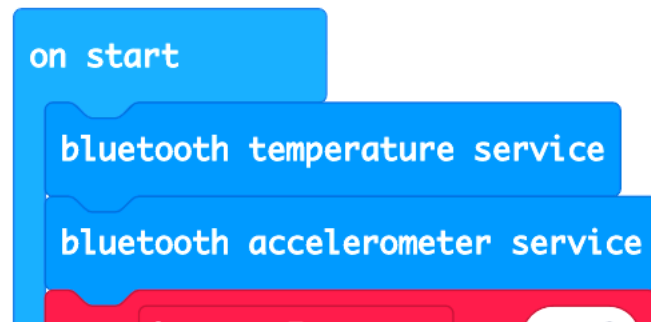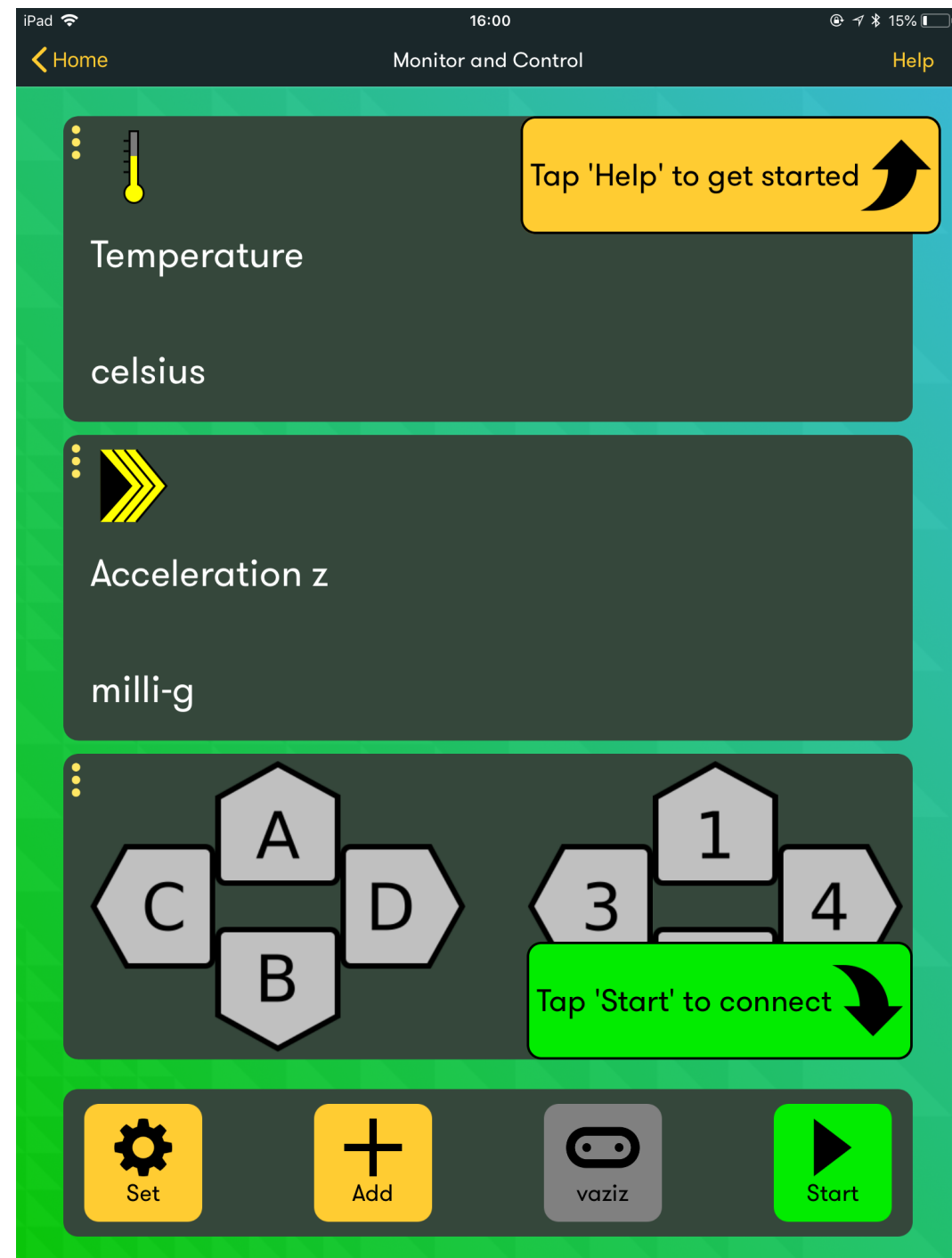PRESS and RELEASE RESET
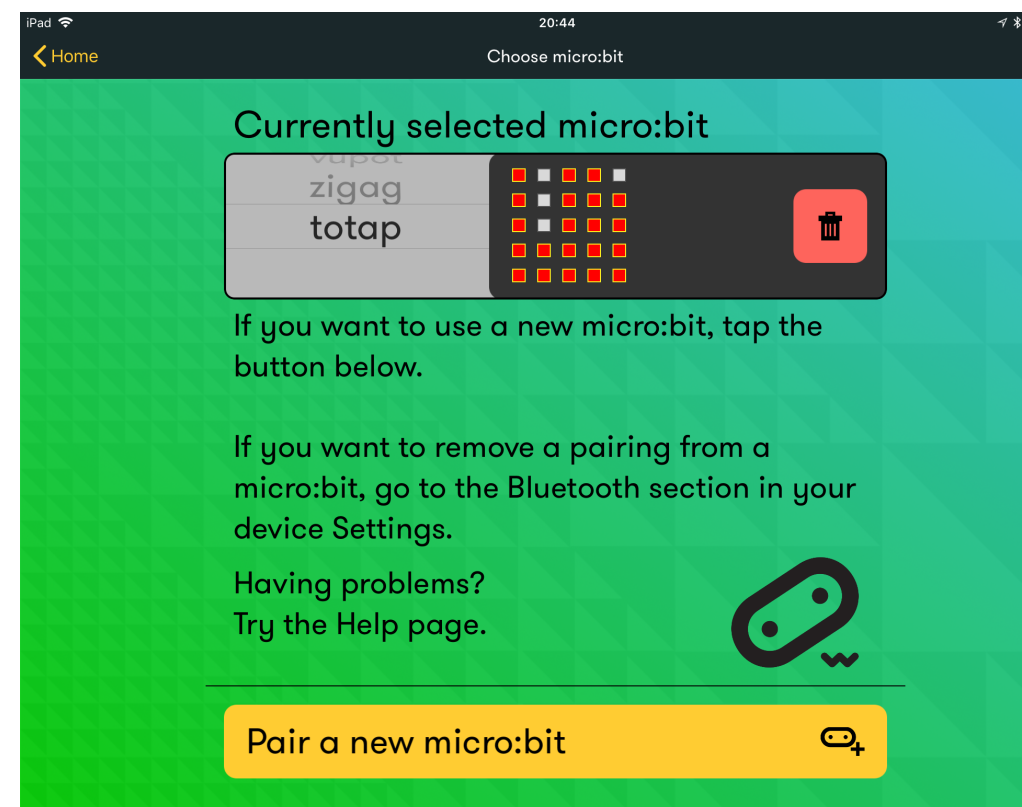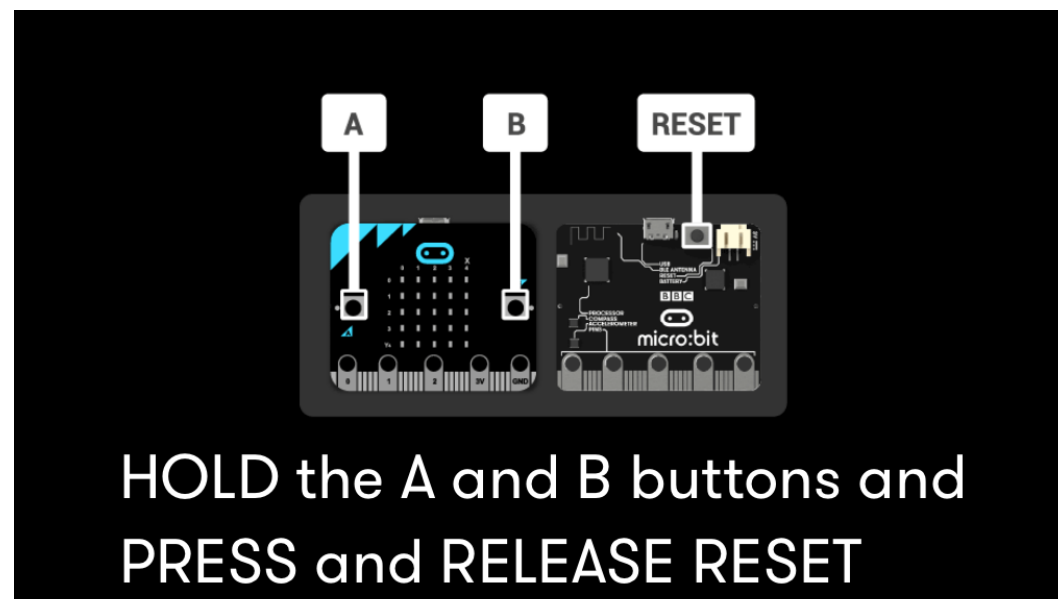
Remote control

Choose "monitor and control"
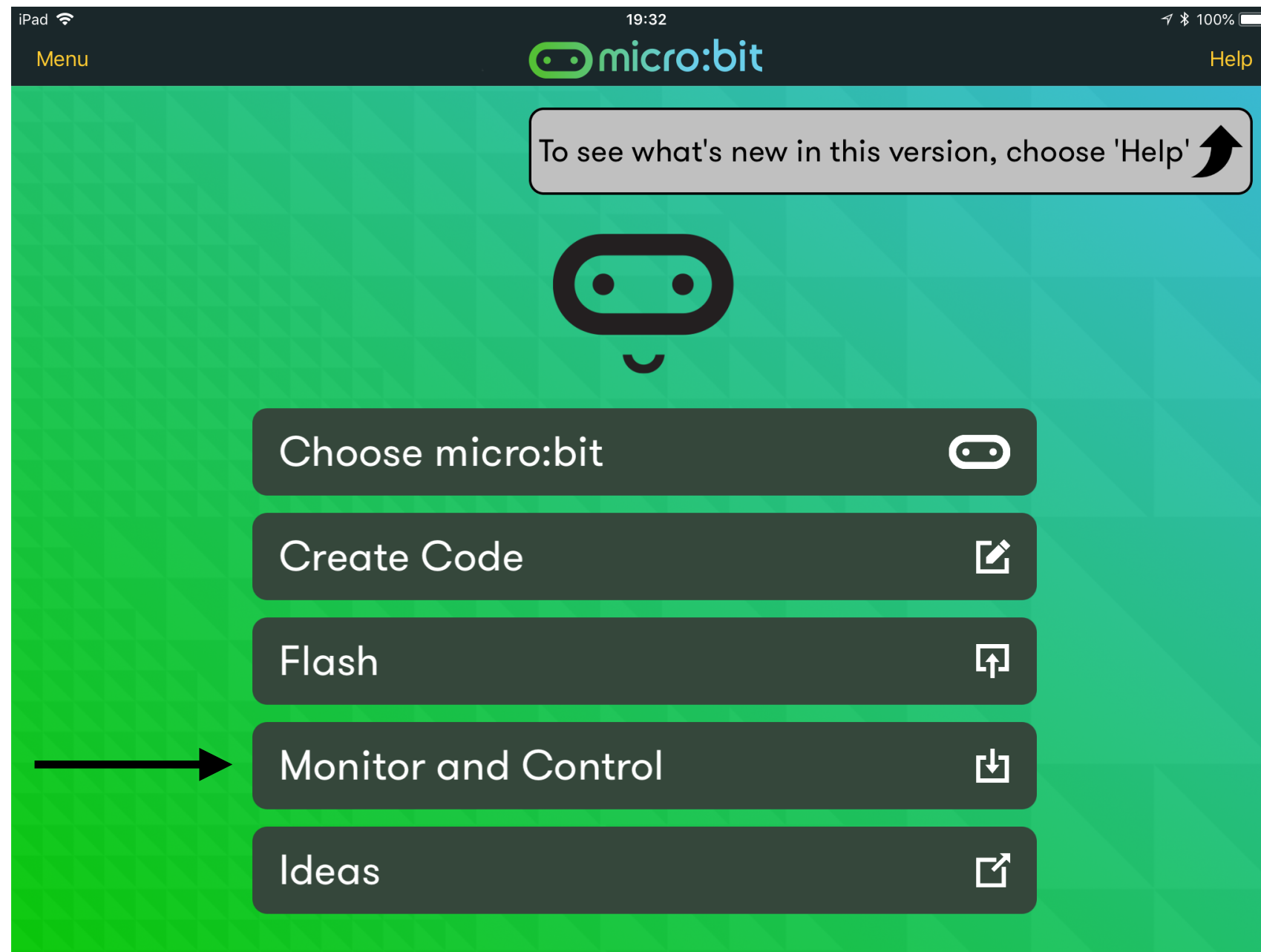
1. Click "add" to insert the joystick-panel
2. Click "start" to connect the remote control
3. Optionally, you can add more tabs. Temperature and acceleration is being streamed live

To use the temp/acc service, you need to add these blocks in the on start in the micro:bit code. Learn more about coding at page 9

Joystick-panel

Test your connection and run

Rudder/
steering

Speed/
throttle

Arm
(Start motors)

Disarm
(Stop motors)

Arm

Throttle

Battery
level

Rudder/steering
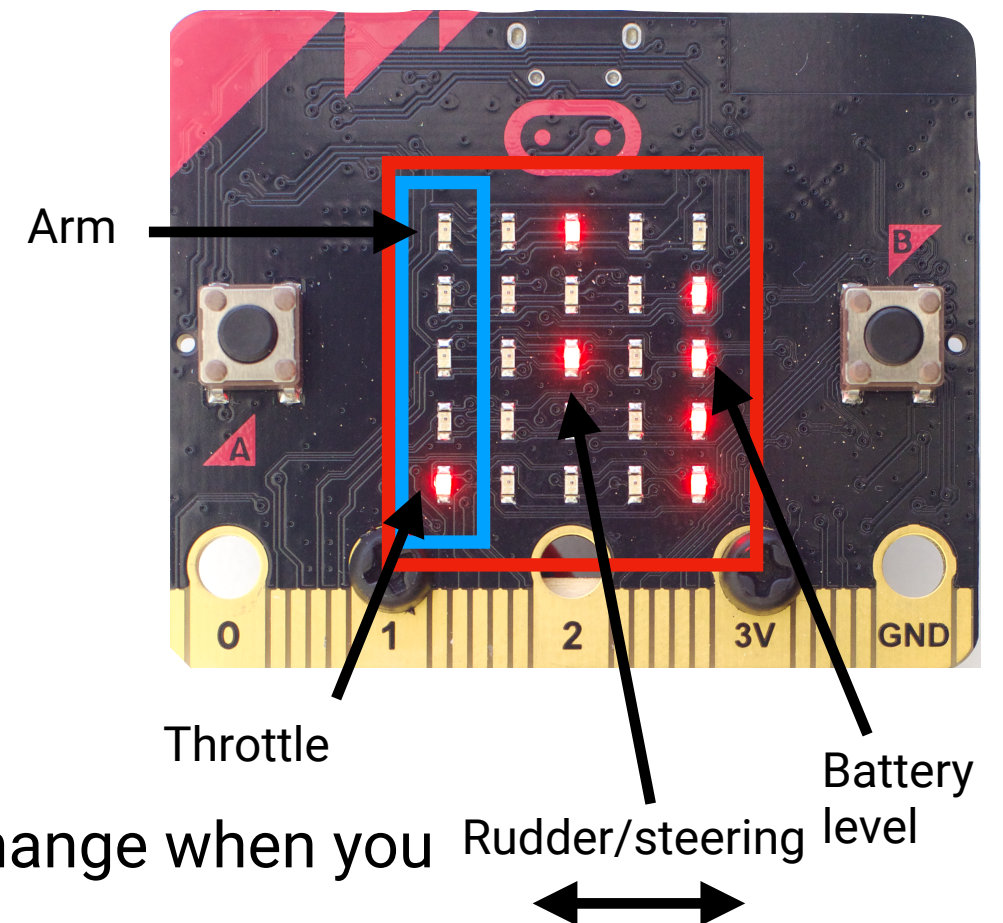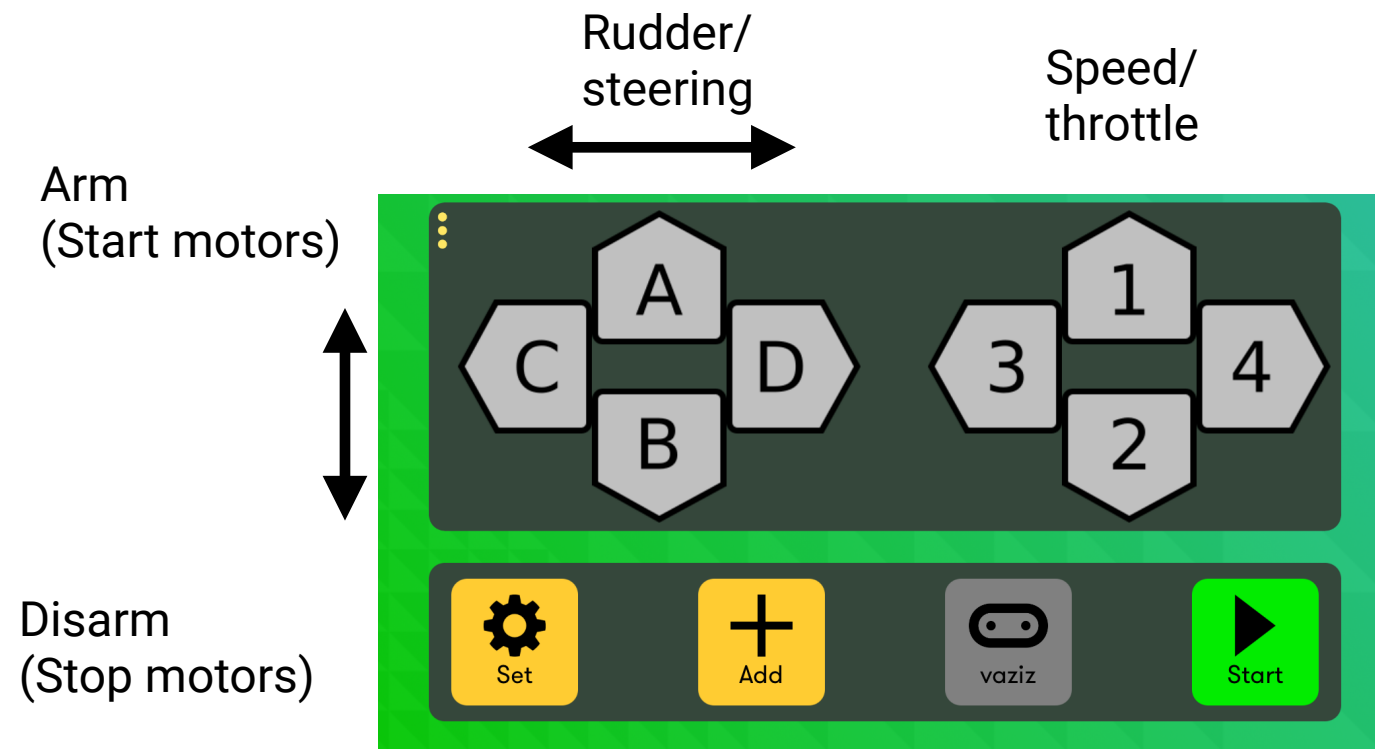
Test your connection by observing the leds change when you press buttons A-D and 1-4.

The tail moves when you press C or D, and the center dot moves on micro:bit.
Start motors with A. Arm-led turns on. Choose speed with buttons 1-4. Throttle bar raises on micro:bit.
Stop motors with B.
Happy drifting!

Change the remote

You can change the code so the buttons behave differently.
All the buttons A-D and 1-4 can be changed according to your preferences.

Try adding more angle to the steering on button C or D.

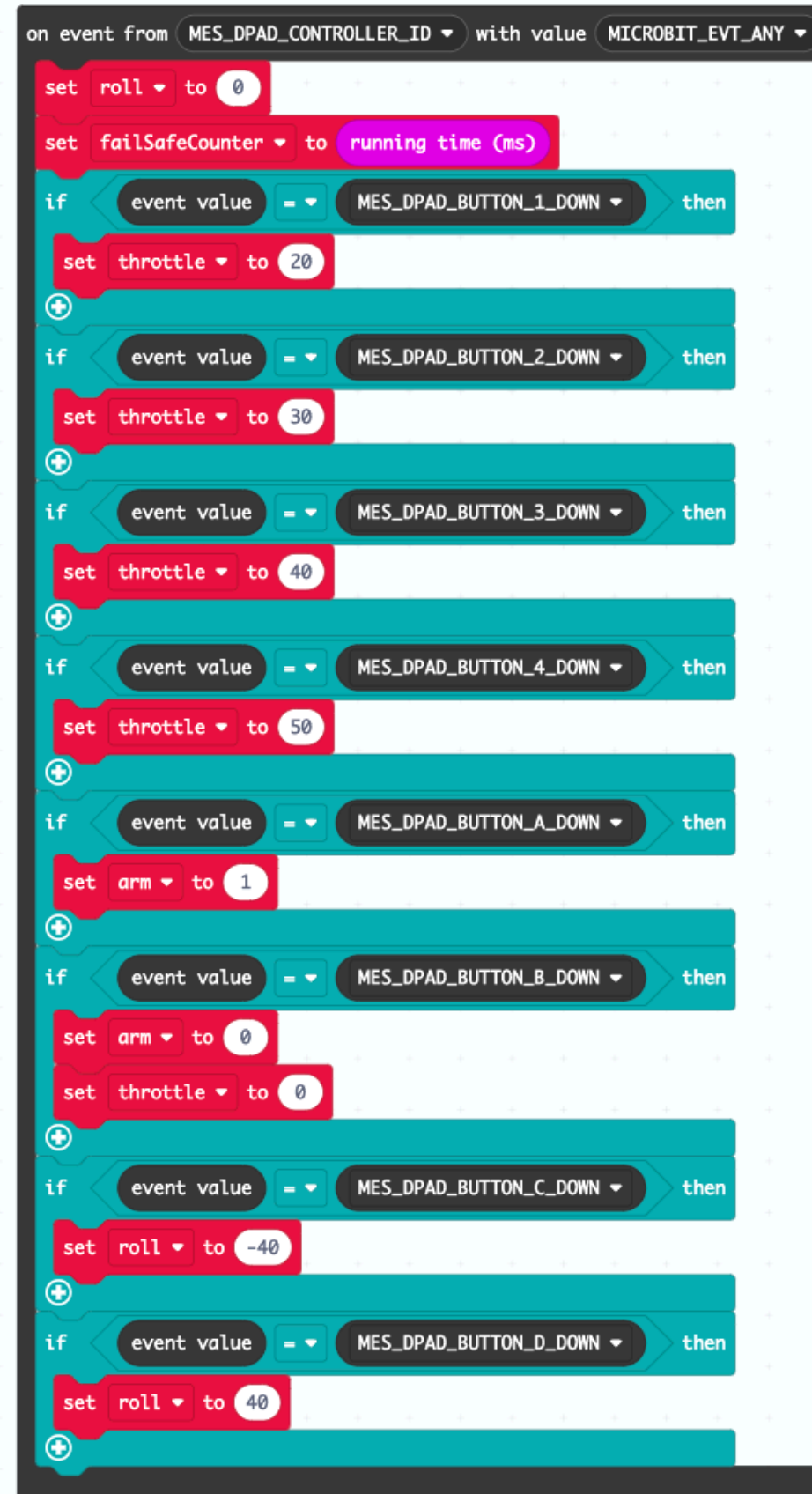You can even make the hovercraft go way faster by changing the maximum speed (currently 50% on button 4)

To change code, go to makecode.microbit.org and import the hoverbit iOS code. Then download to the micro:bit.

Note: You usually have to do a new pairing with the micro:bit after updating the code. Also, you may need to "forget" the device in bluetooth/system settings on the iOS device before pairing again.


```
on event from MES_DPAD_CONTROLLER_ID ▼ with value MICROBIT_EVT_ANY ▼
set roll ▼ to 0
set failSafeCounter ▼ to running time (ms)
if  event value = ▼ MES_DPAD_BUTTON_1_DOWN ▼  then
    set throttle ▼ to 20
if  event value = ▼ MES_DPAD_BUTTON_2_DOWN ▼  then
    set throttle ▼ to 30
if  event value = ▼ MES_DPAD_BUTTON_3_DOWN ▼  then
    set throttle ▼ to 40
if  event value = ▼ MES_DPAD_BUTTON_4_DOWN ▼  then
    set throttle ▼ to 50
if  event value = ▼ MES_DPAD_BUTTON_A_DOWN ▼  then
    set arm ▼ to 1
if  event value = ▼ MES_DPAD_BUTTON_B_DOWN ▼  then
    set arm ▼ to 0
    set throttle ▼ to 0
if  event value = ▼ MES_DPAD_BUTTON_C_DOWN ▼  then
    set roll ▼ to -40
if  event value = ▼ MES_DPAD_BUTTON_D_DOWN ▼  then
    set roll ▼ to 40
```

Contact:

Get tips and help in our Facebook community:
www.facebook.com/groups/gohoverbit/
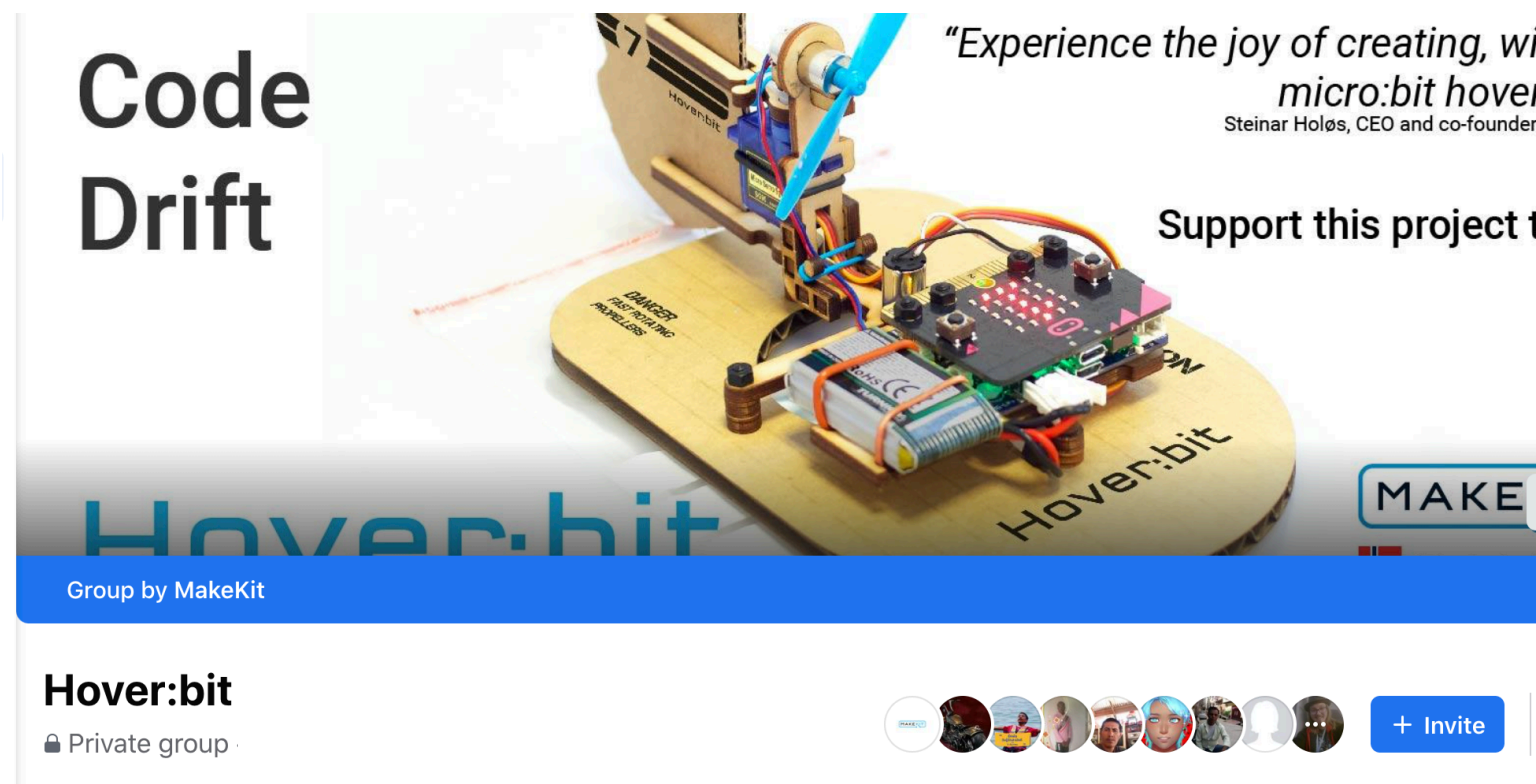
www.makekit.no support@makekit.no makekit gomakekit (also twitter)