

Dance Dance With Spotify

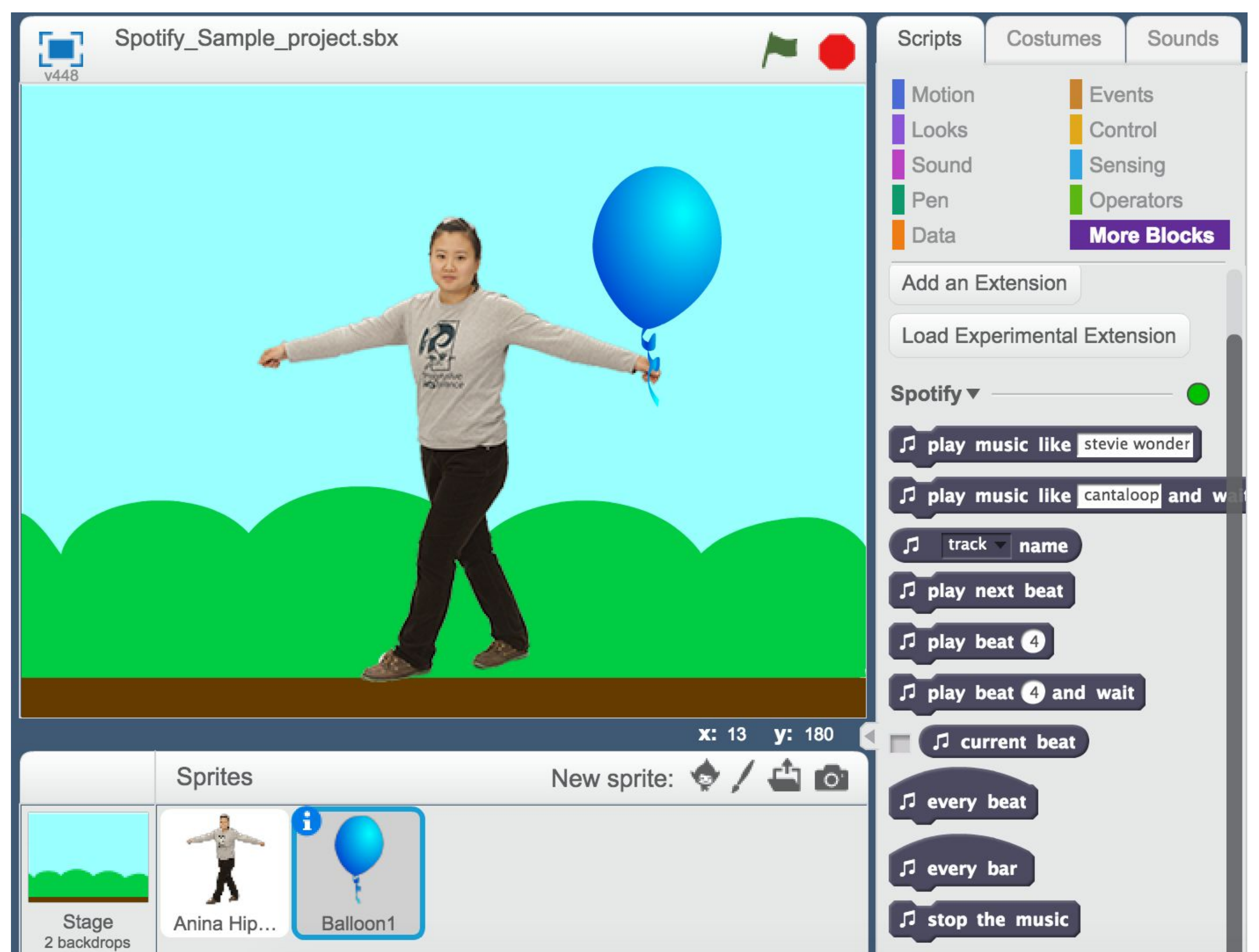
What: The Spotify extension lets you access and interact with any music sample you want from the Spotify service. Each music sample will play for 30 seconds.

CAN YOU:

Make a sprite dance to spotify song?

Hints:

- Choose a sprite with multiple costumes (like Anina).
- Follow the Scratch “Animate It!” card.
- Trigger an event every beat with:



Direct URL:

<http://scratchx.org/?url=https://ericosenbaum.github.io/spotify-extension/extension.js>

Load as second extension in ScratchX:

<https://ericosenbaum.github.io/spotify-extension/extension.js>

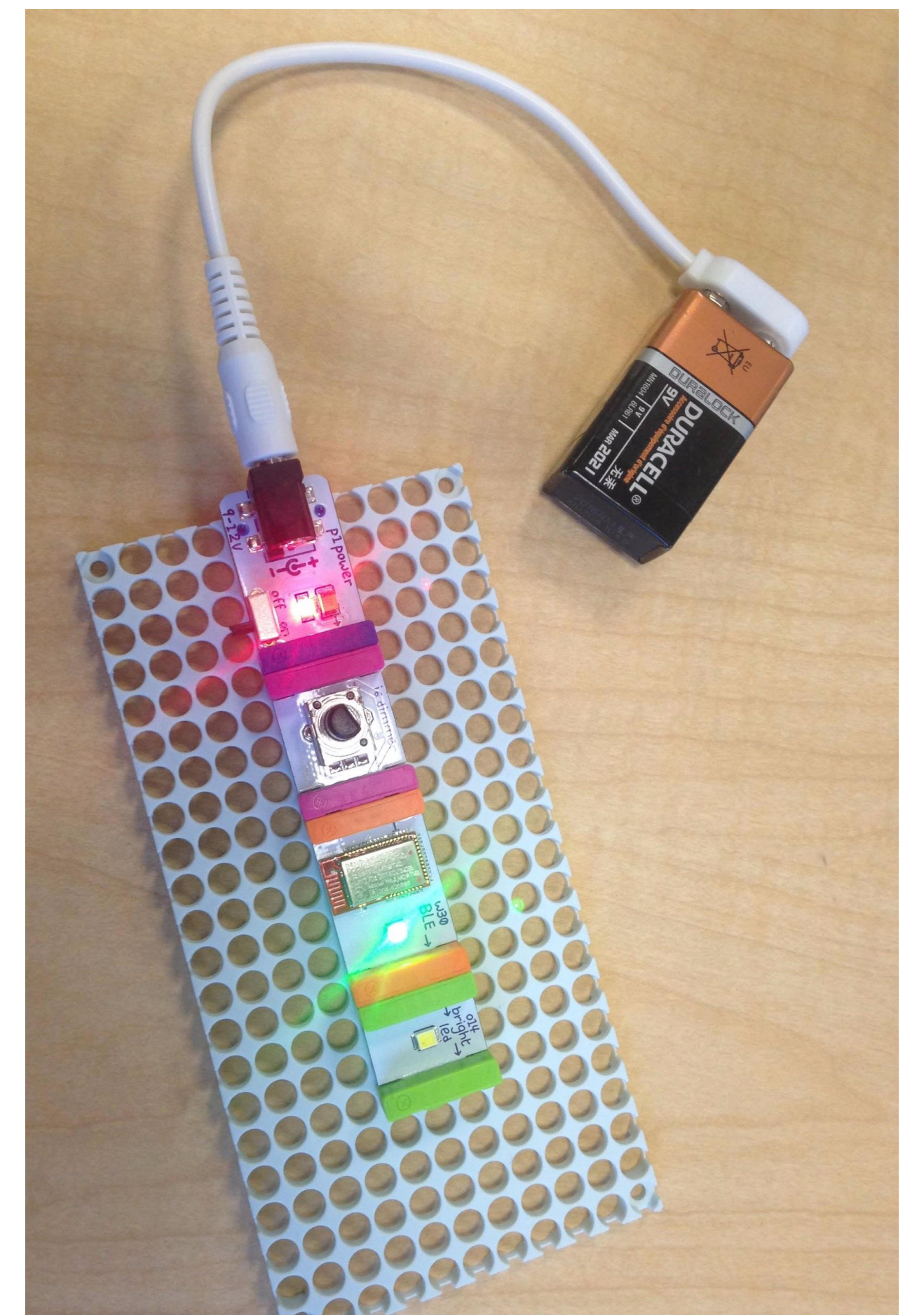
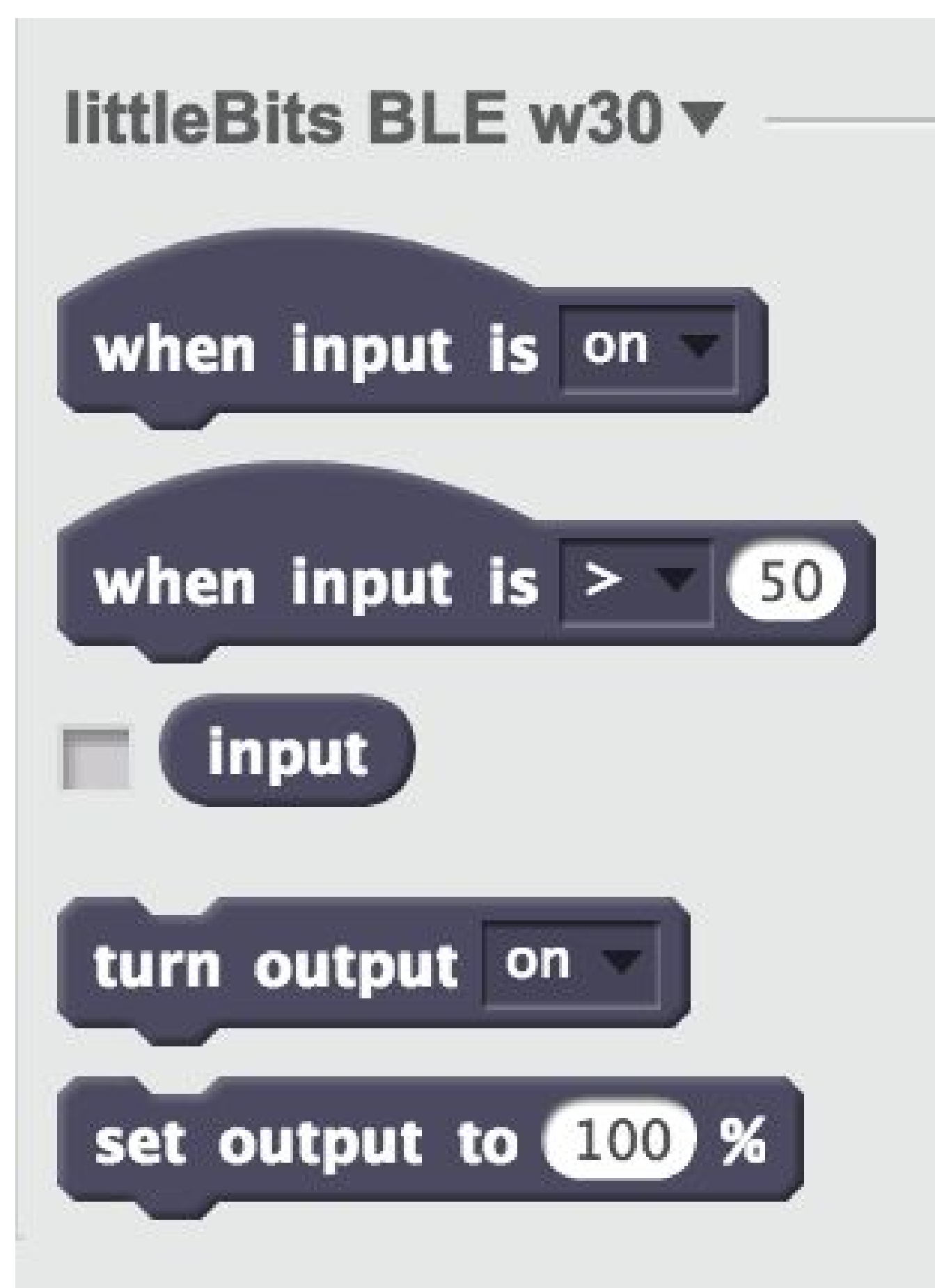
littleBits on Bluetooth

What: littleBits are magnetic components that you can snap together to create electronic inventions. The littleBits BLE extension lets you interface your littleBits creations with Scratch using the littleBits Bluetooth Low Energy (BLE) bit. →



CAN YOU:

- Light up an LED bit?
- Trigger an action in Scratch using the greater than/less than value block?
- Set the LED to dim and brighten in a pattern?



Direct URL:

http://scratchx.org/?url=https://khanning.github.io/littlebits-ble-extension/littleBitsBLE_extension.js



Load as second extension in ScratchX:

https://khanning.github.io/littlebits-ble-extension/littleBitsBLE_extension.js

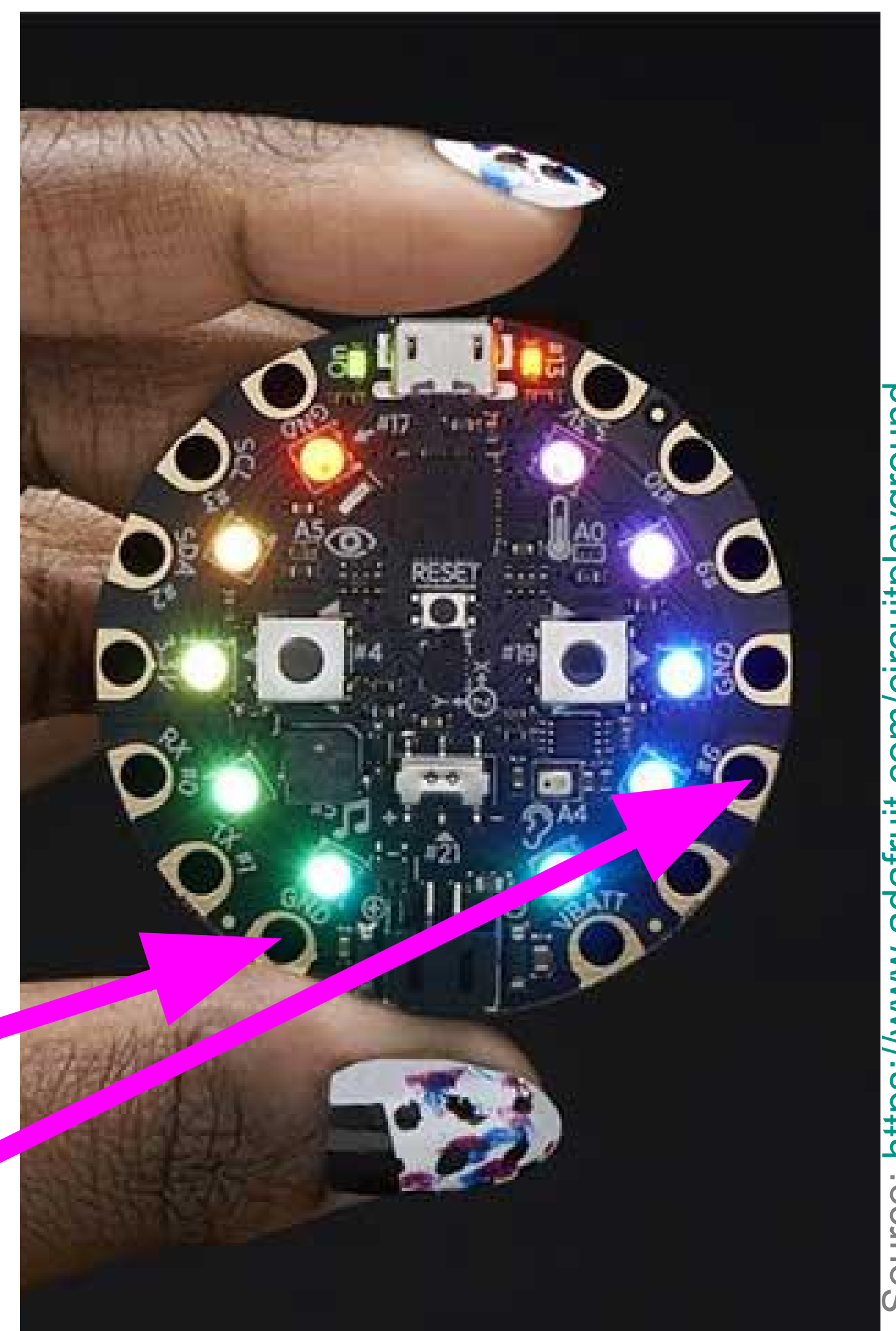
Circuit Playground

What: Circuit Playground is a low-cost educational platform designed to help enable students learn both physical computing and coding. Built-in LEDs and sensors include: NeoPixels (tiny, programmable lights!), a motion sensor, a temperature sensor, a light sensor, a sound sensor, a speaker, two push buttons, and a slide switch.

CAN YOU:

- Light up an onboard LED and change its color?
- Use a sensor to trigger an action on the screen (tilt, temperature, light)?
- Light up an external LED and make it blink?
 - Alligator Clip goes w: 
 - Conductive thread goes w: 

Hint on conductive thread circuit: each sequin LED needs to connect to a negative (Circuit Playground = “ground” pad) and a positive (Circuit Playground = #6, #9, #10 or #12 pad). The sewn thread for the ground and the pad cannot be touching. If they are touching it creates a “short circuit”.



Source: <https://www.adafruit.com/circuitplayground>.

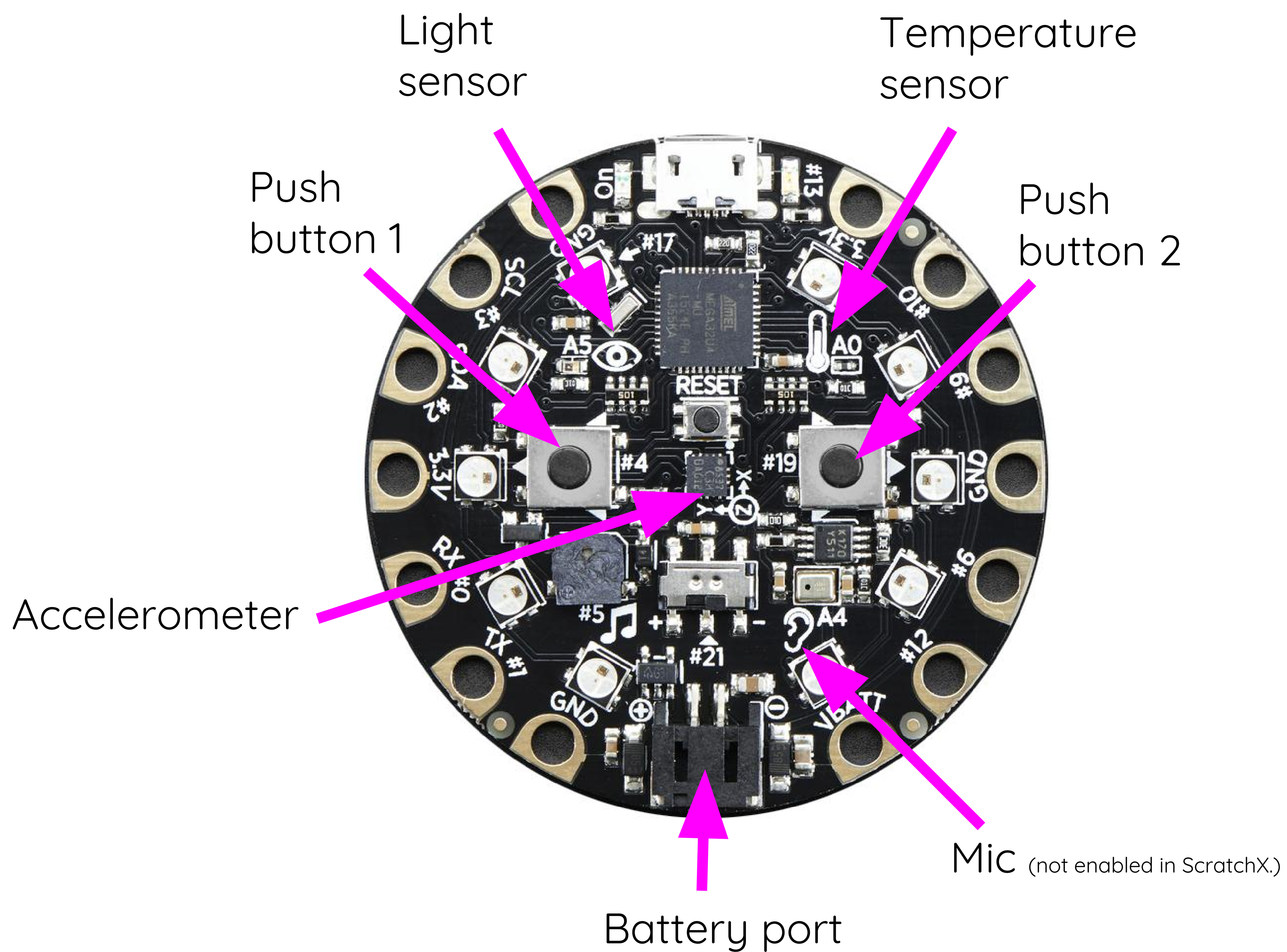
Direct URL:

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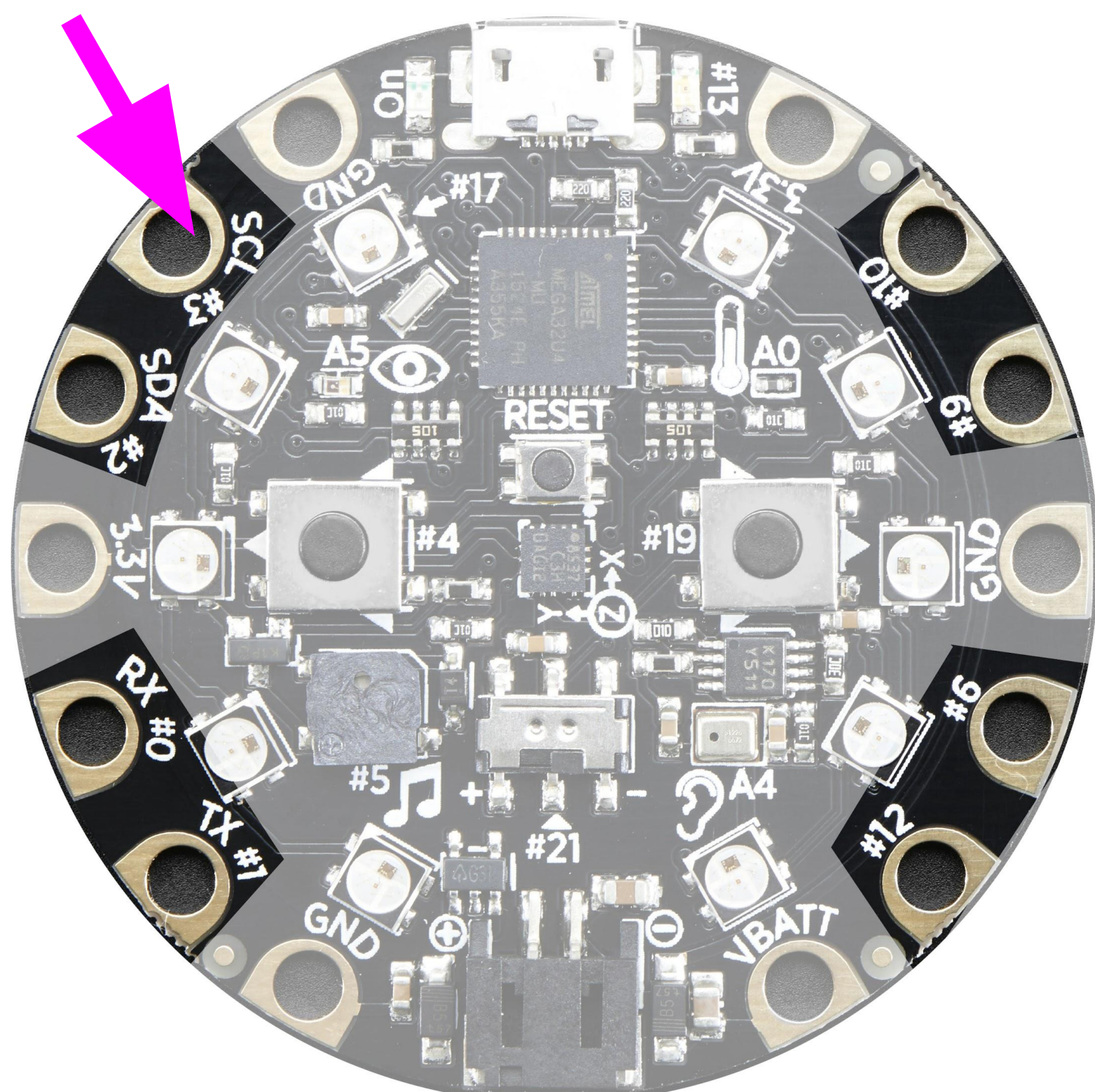
Load as second extension in ScratchX:

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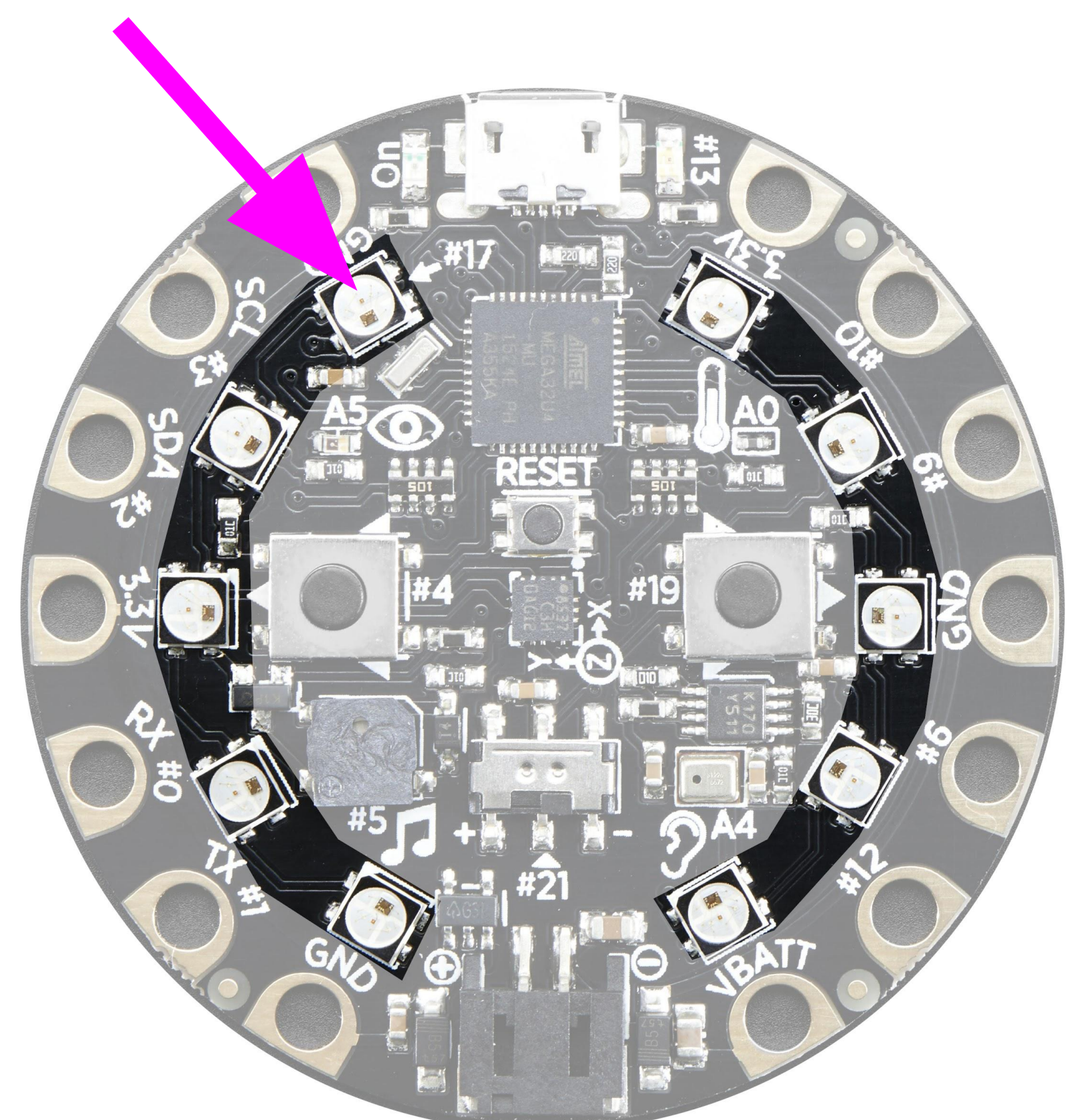
Circuit Playground



External “Pads”: to connect LEDs, etc.



Onboard NeoPixels: counter-clockwise starting from here: #1-10.

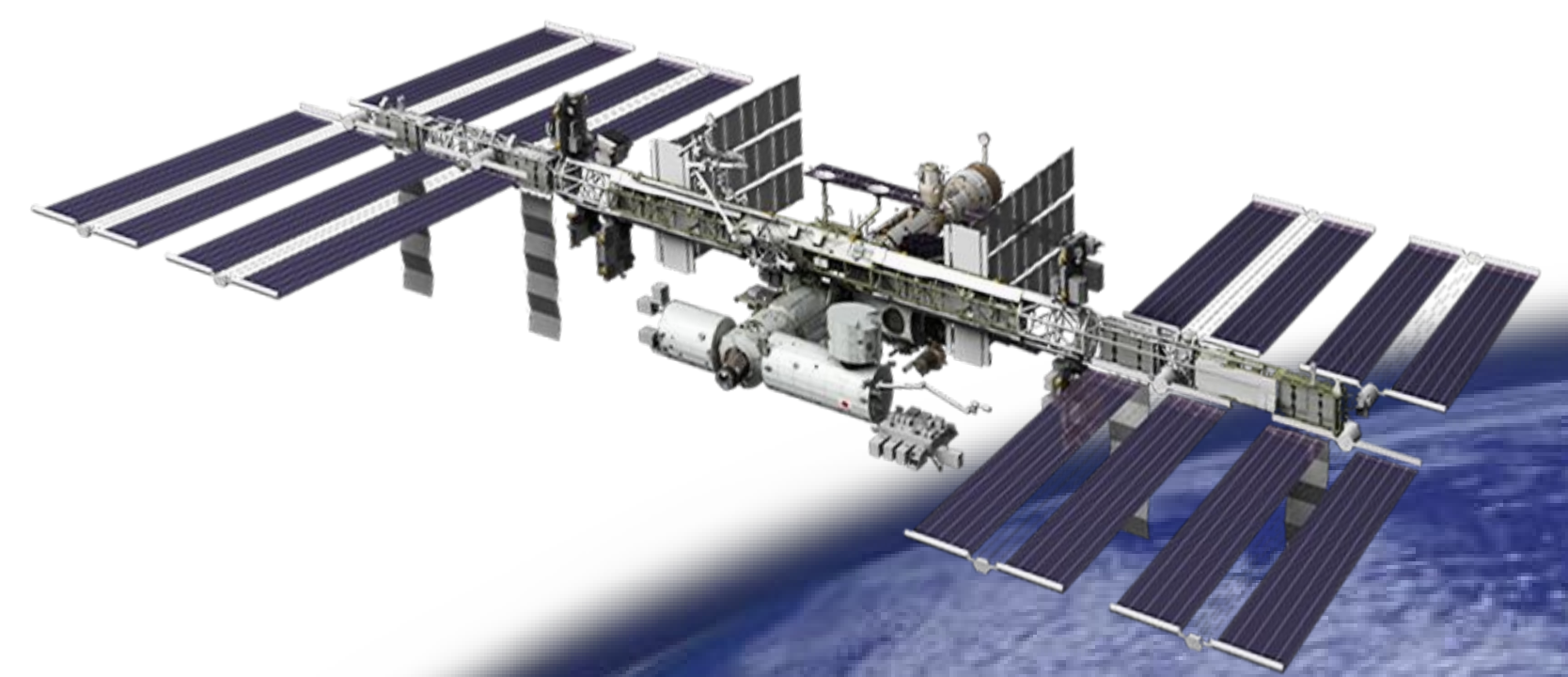
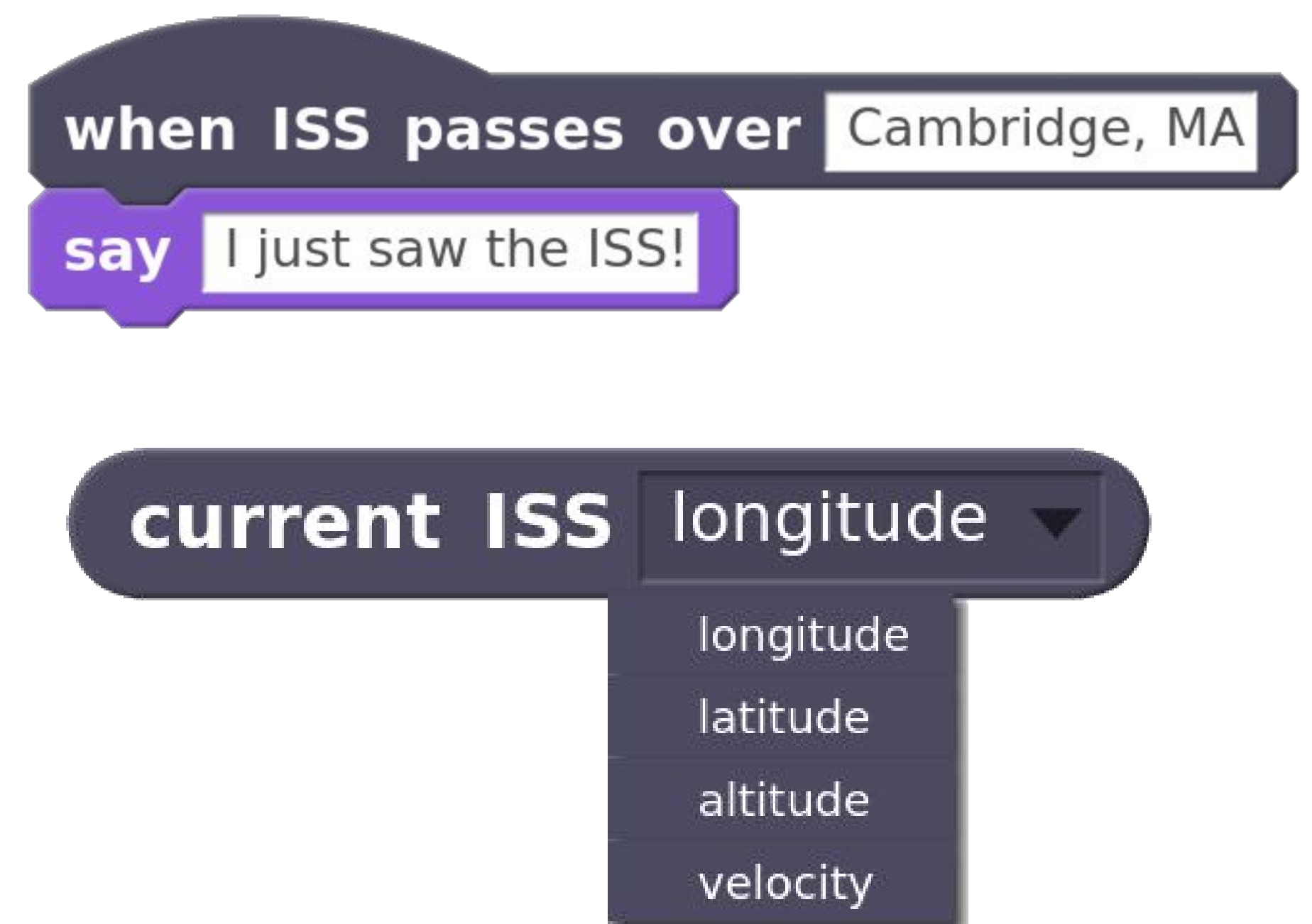
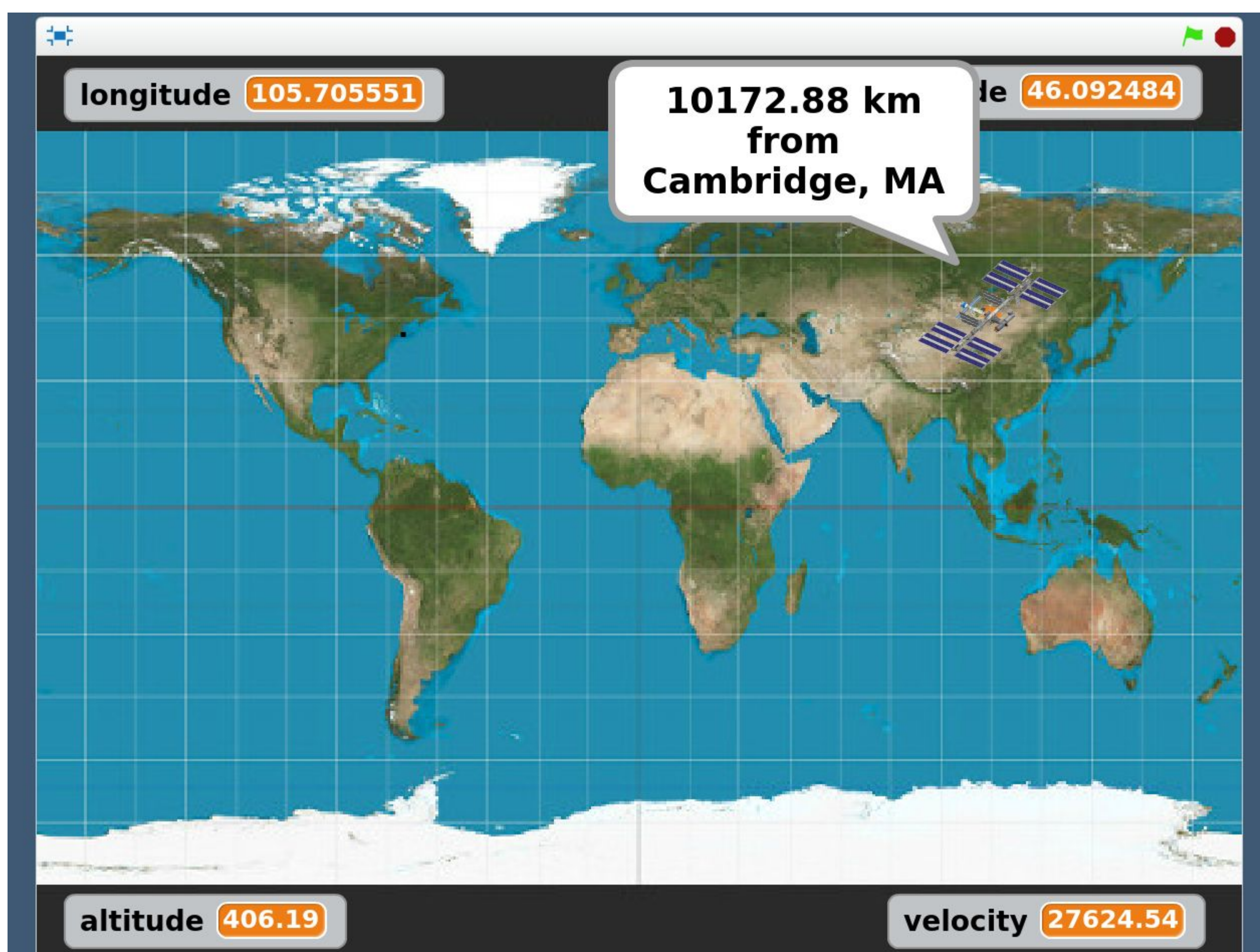


ISS Tracker

What does it do?

ISS Tracker lets you track the International Space Station (ISS) in it's orbit around Earth. The extension provides up-to-date information about the ISS including longitude, latitude, altitude, and velocity.

The extension also lets you track the distance between the ISS and any location on earth so you can trigger an event when it passes overhead!



The ISS Tracker
can be found at:
<http://scratchx.org>

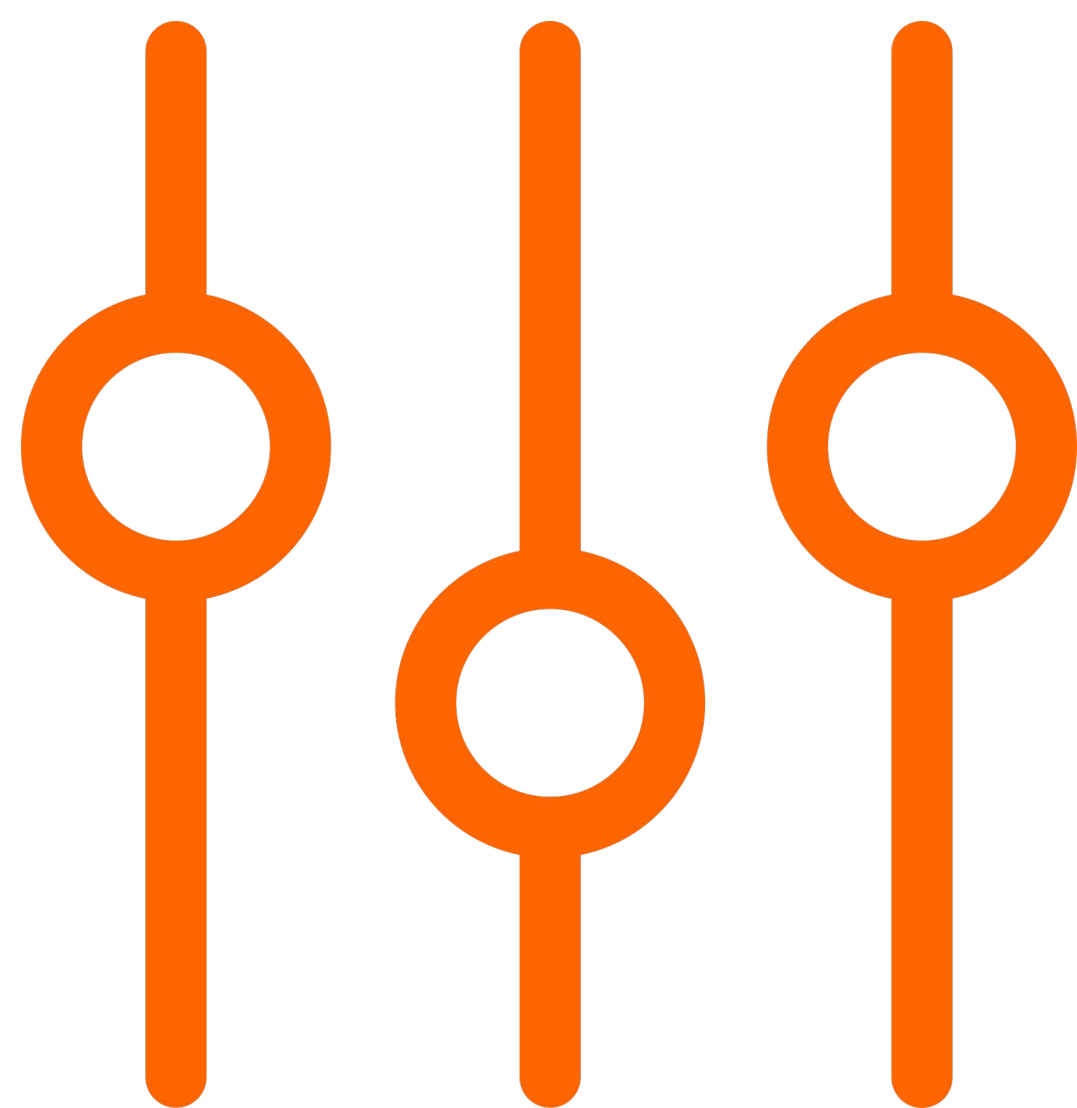
Sound Synthesizer

What does it do?

The Sound Synthesizer extension lets you create all kinds of different sound effects using Scratch blocks. You can control frequency and waveform as well as add effects like echo, pan, glide, and wah.



The Sound Synthesizer
can be found at:
<http://scratchx.org>

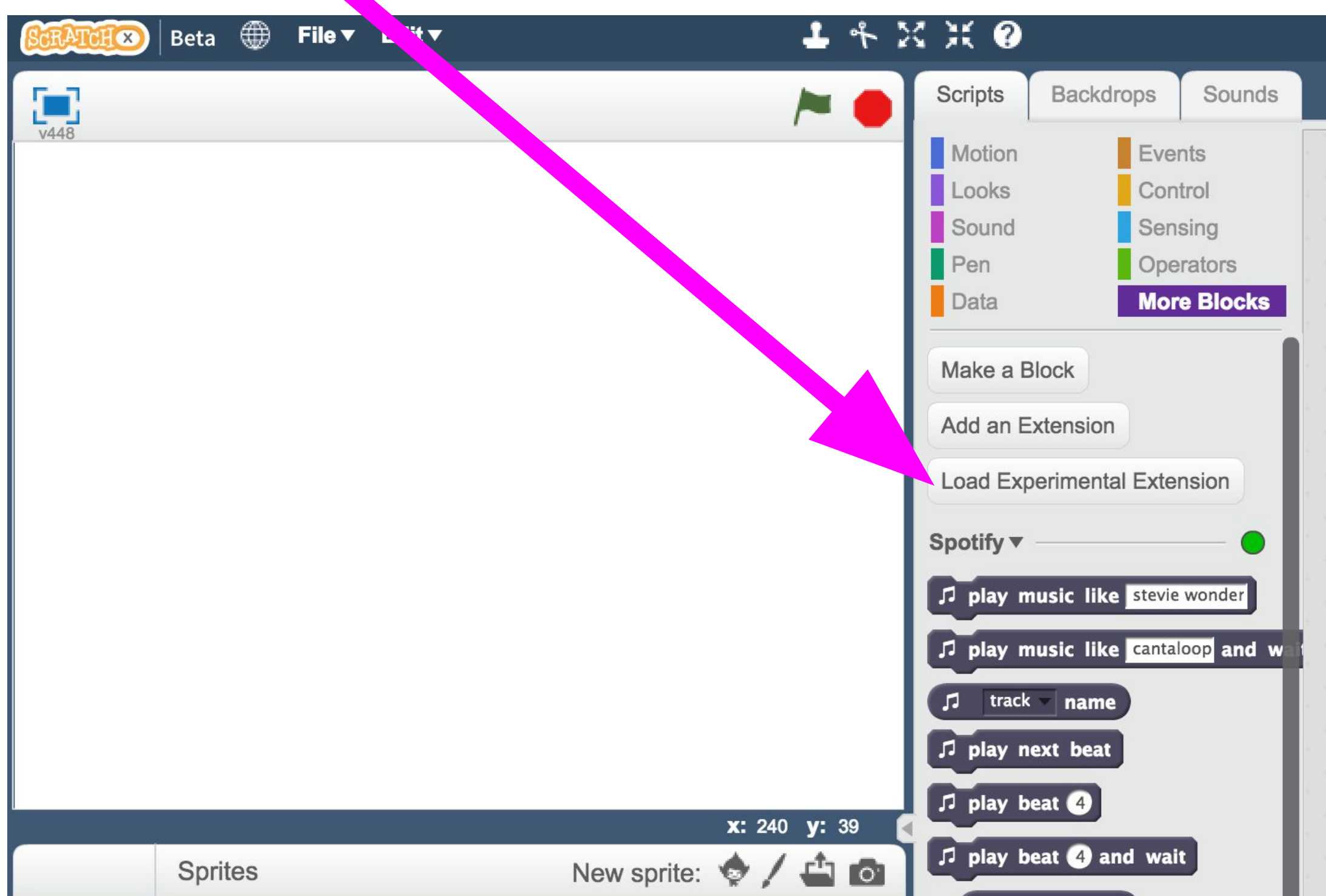


Extension Mashup

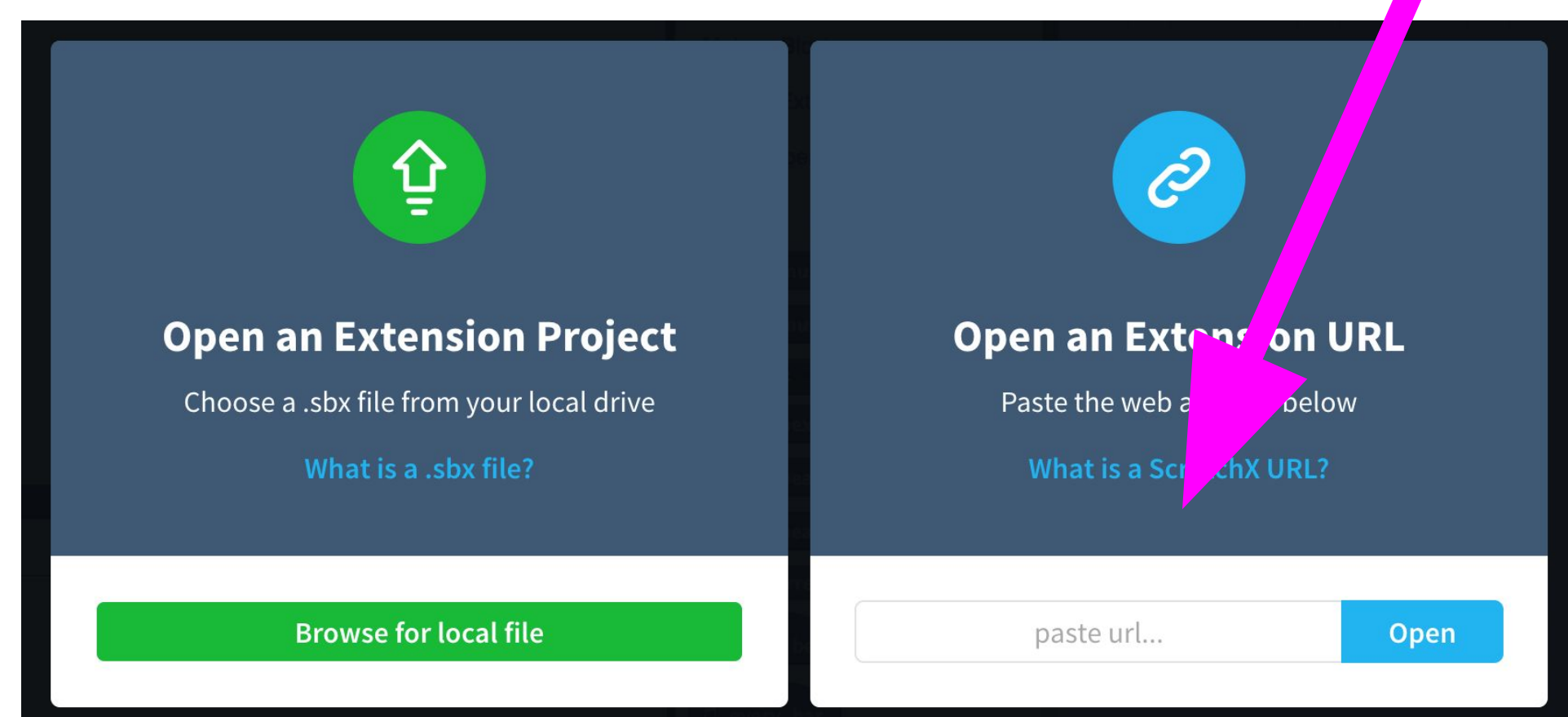
Use two extensions at the same time!

1. Have one ScratchX extension open.

2. Click “Load Experimental Extension” under more blocks.



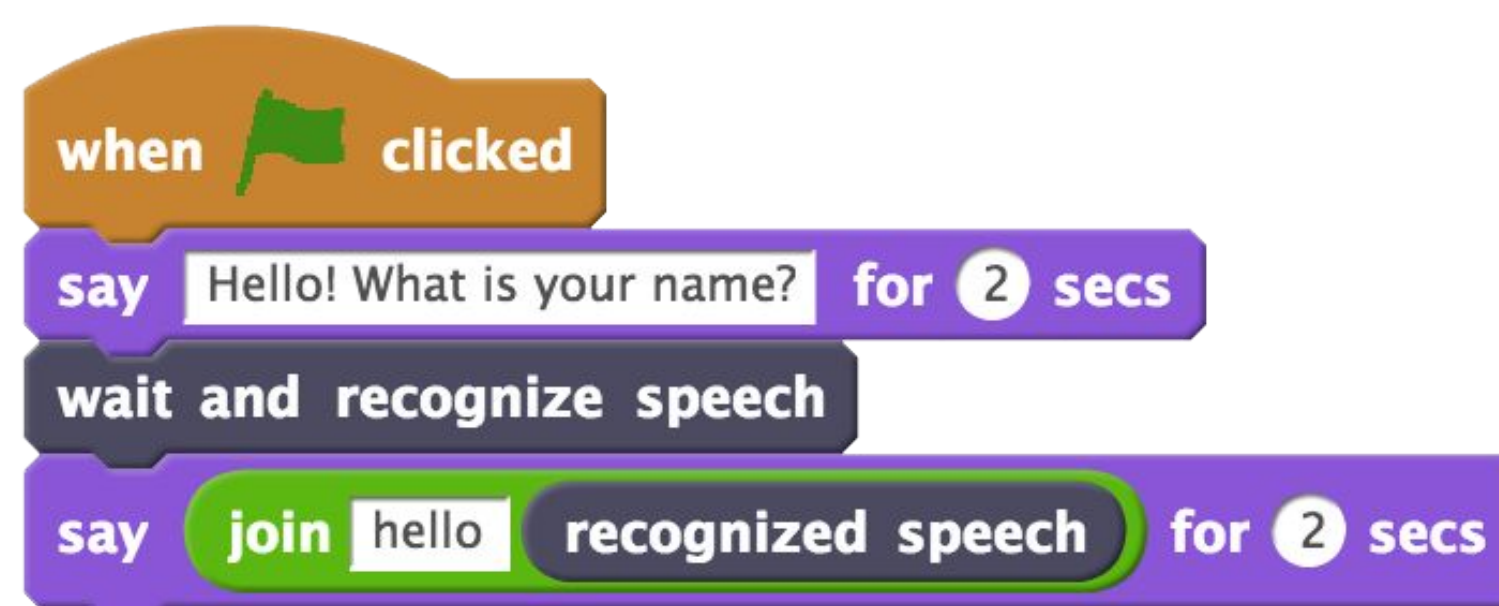
3. Paste the second extension URL into “Open Extension URL”



Text to speech:

http://sayamindu.github.io/scratch-extensions/text-to-speech/text_to_speech_extension.js

Speech to text:



http://sayamindu.github.io/scratch-extensions/speech_to_text_extension.js

Note: This extension only works with the Chrome web browser (right now).

Weather:



https://khanning.github.io/scratch-weather-extension/weather_extension.js