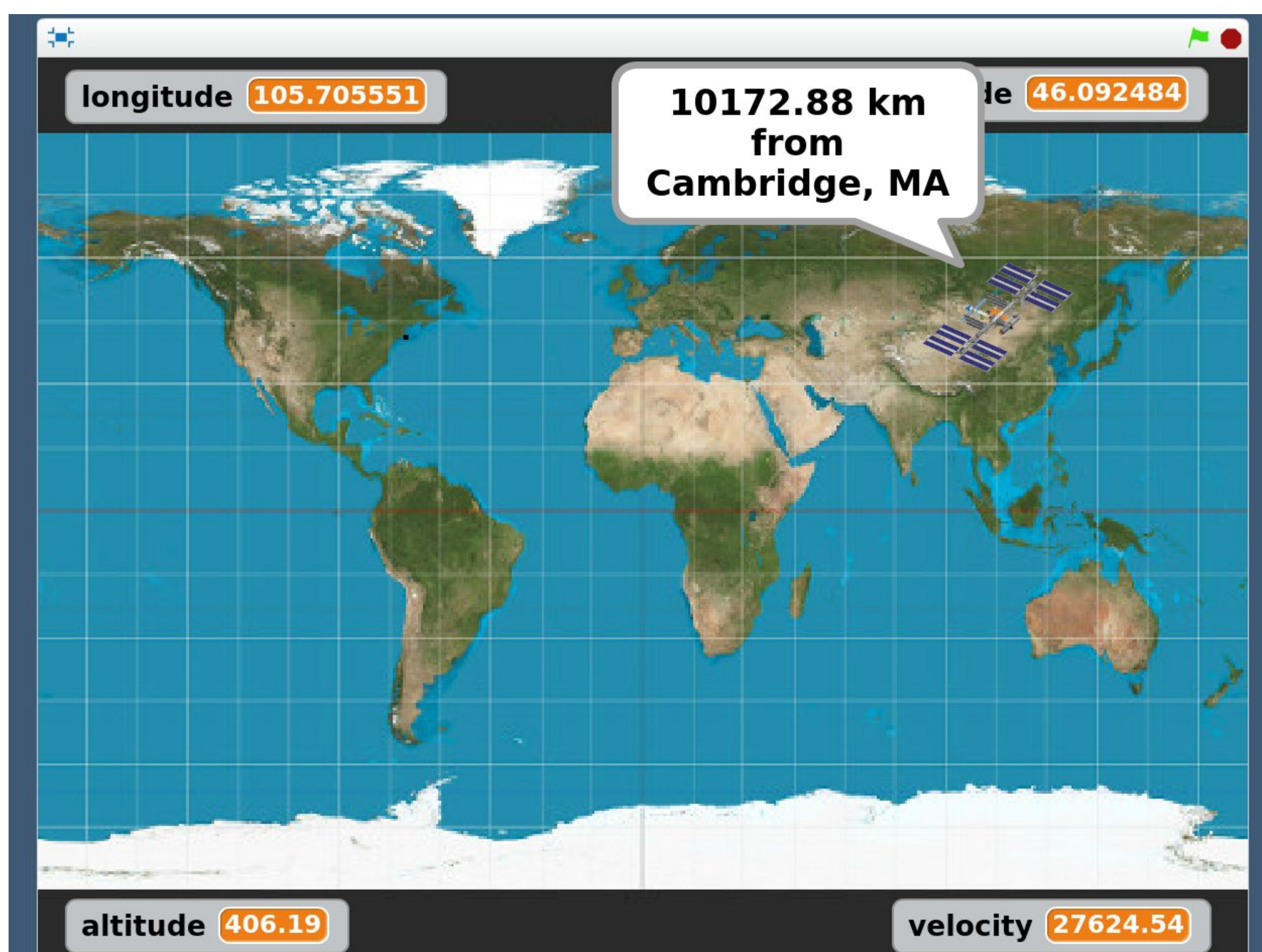# ISS Tracker

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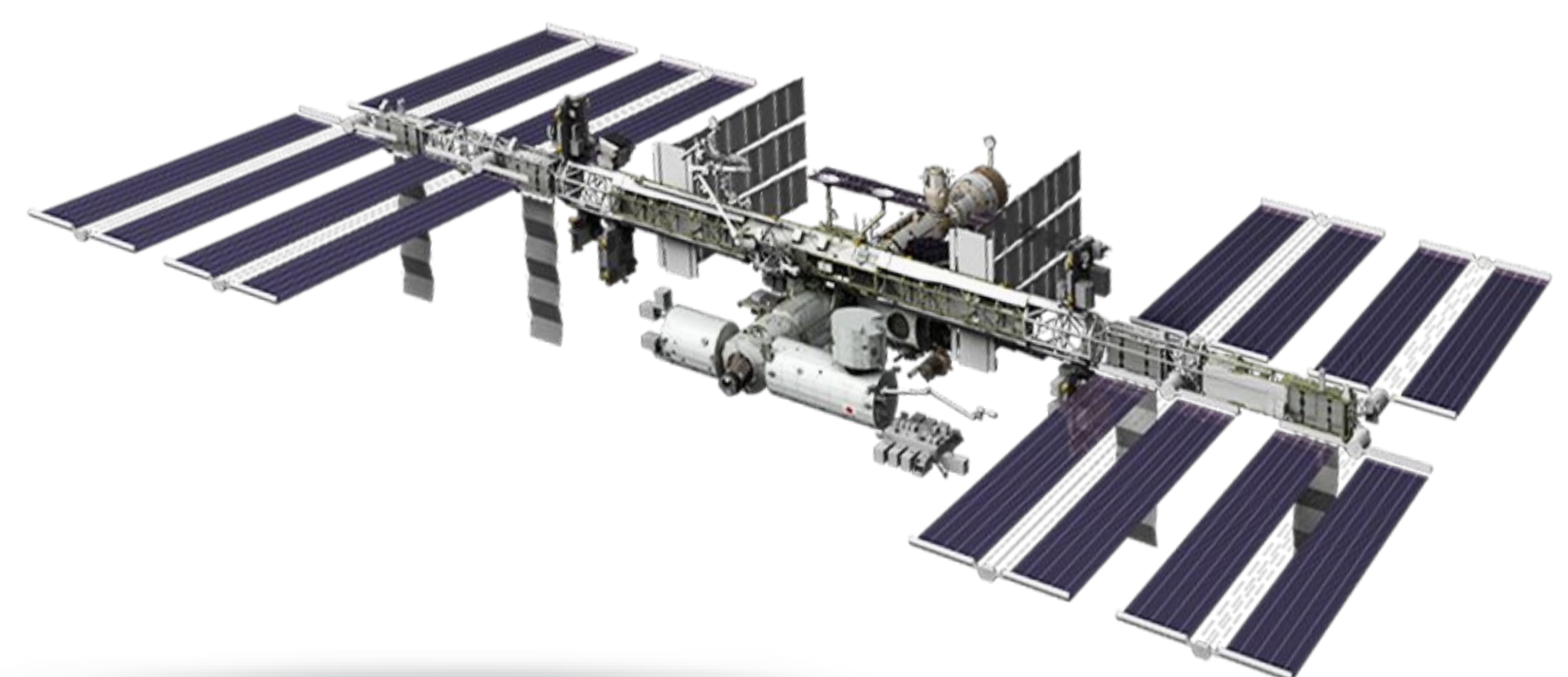
ISS Tracker lets you track the International Space Station (ISS) in it's orbit around Earth. The extension provides up-to-date information about the ISS including longitude, latitude, altitude, and velocity.

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!
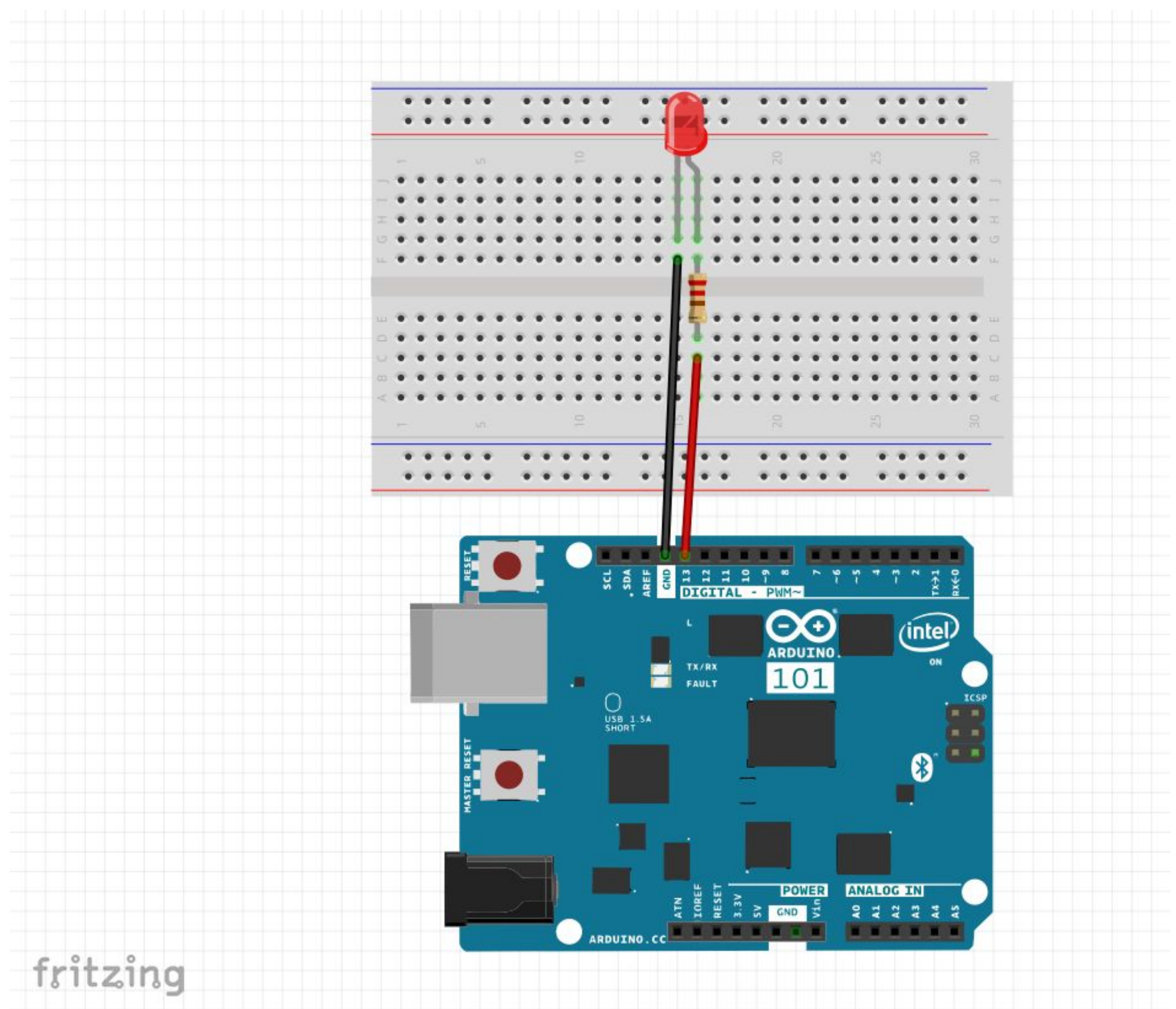
Arduino

What does it do?

The Arduino extension lets you use an Arduino board to create interactive projects. With an Arduino you can light LEDs, read sensors, spin motor, and a lot more. Arduino is great for extending Scratch off of the screen and into the physical world.
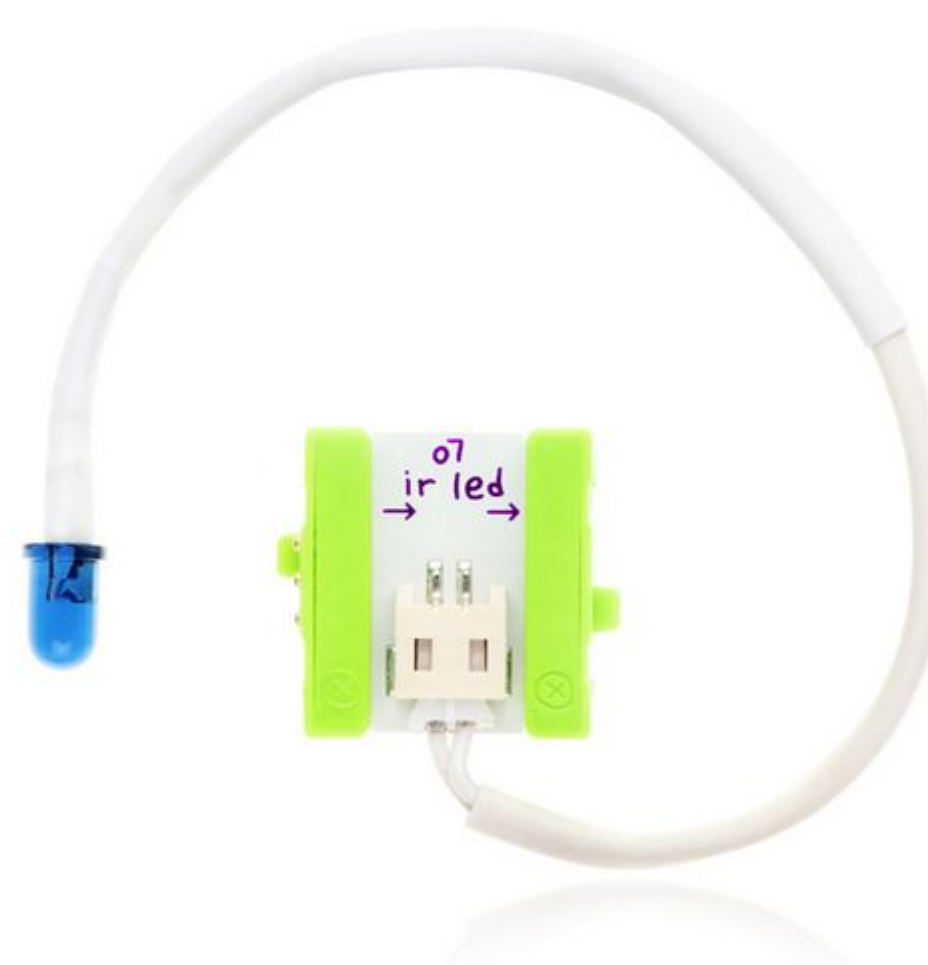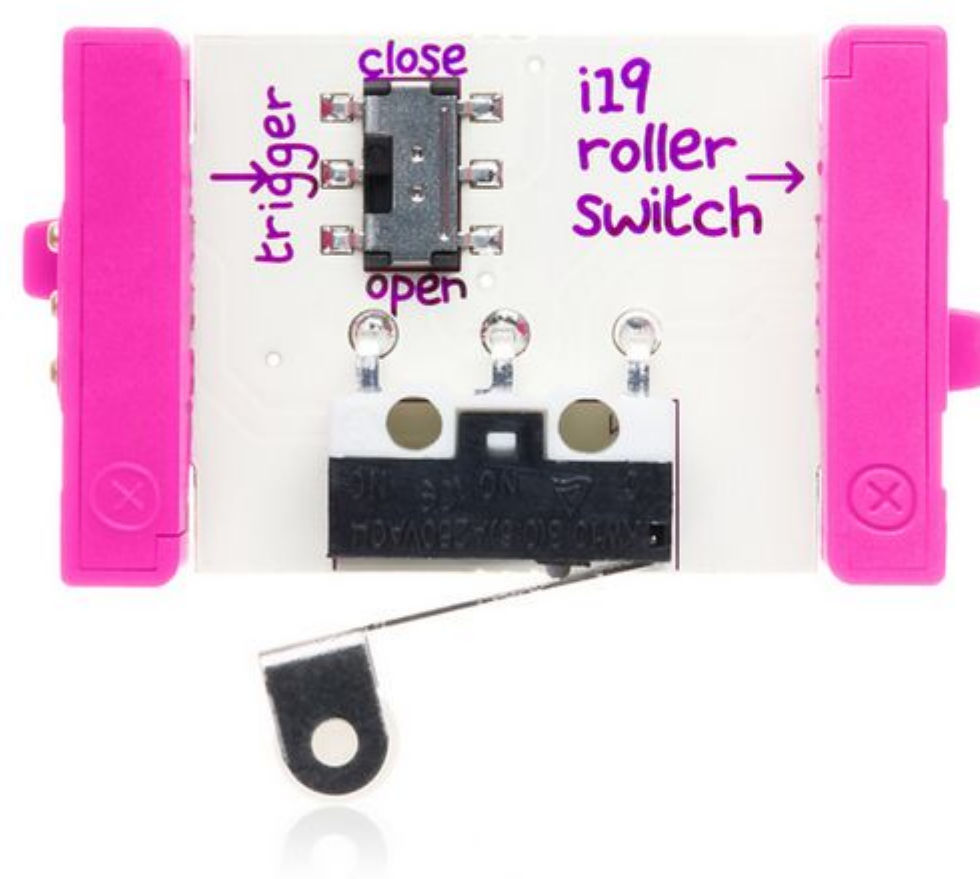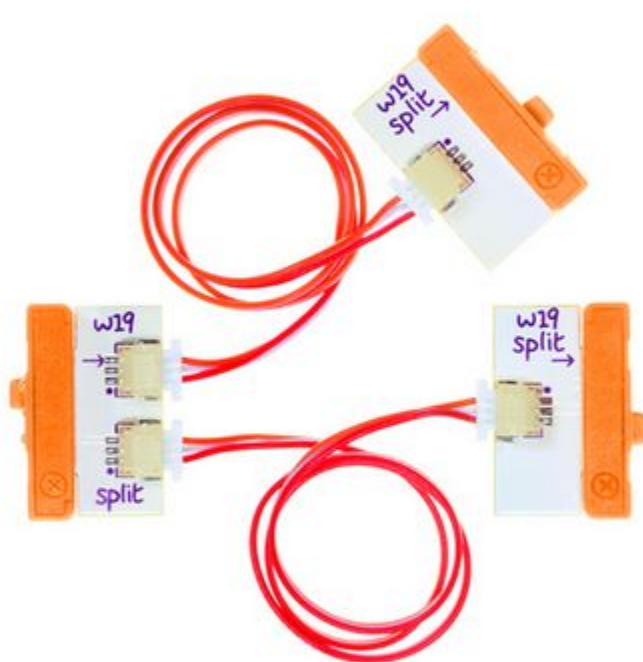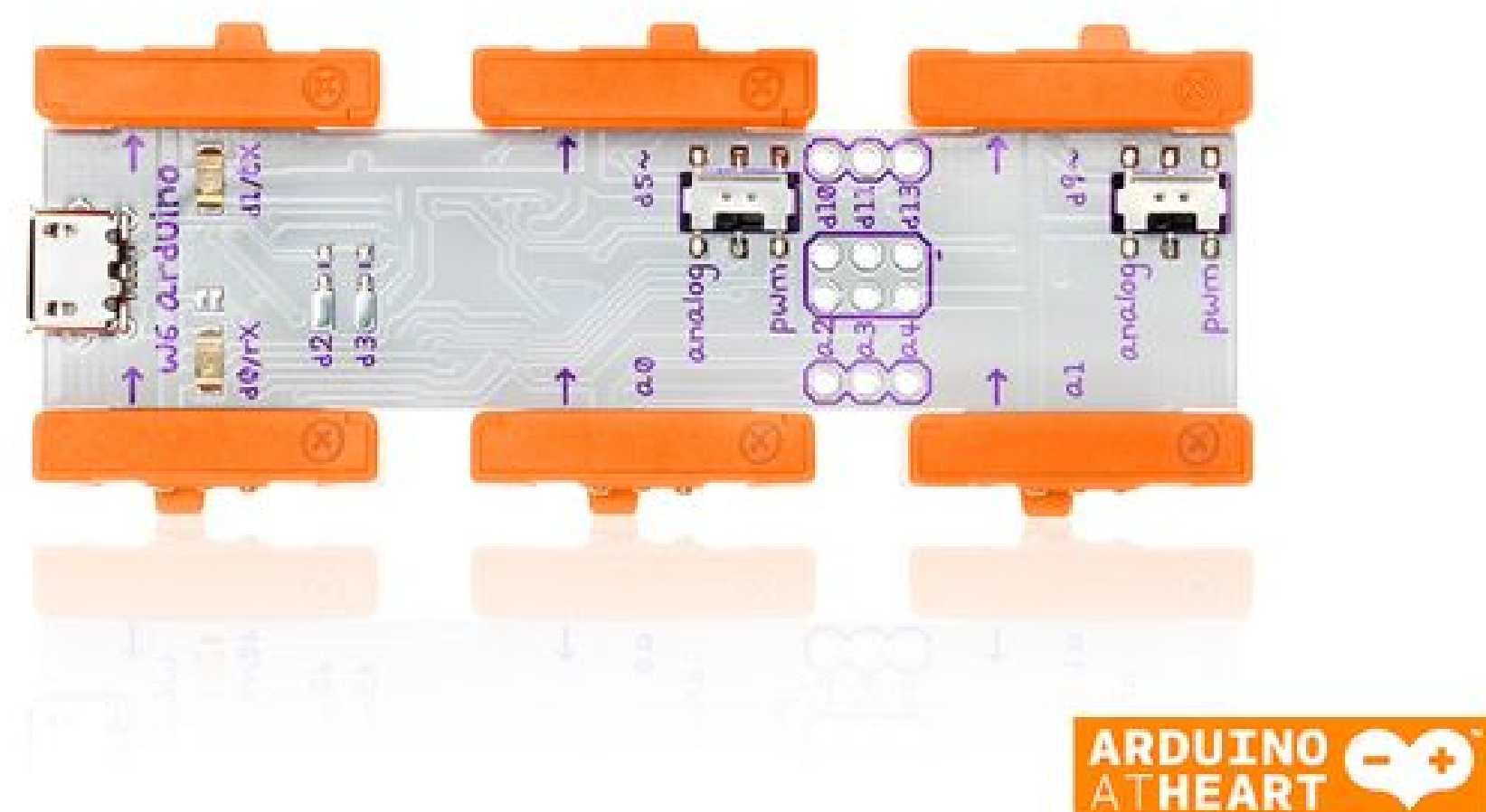
littleBits

What does it do?

littleBits are magnetic components that you can snap together to create electronic inventions. The littleBits extension lets you interface your littleBits creations with Scratch using the Arduino bit. The Arduino bit features 3 inputs and 3 outputs which your can read/write from using blocks in Scratch!
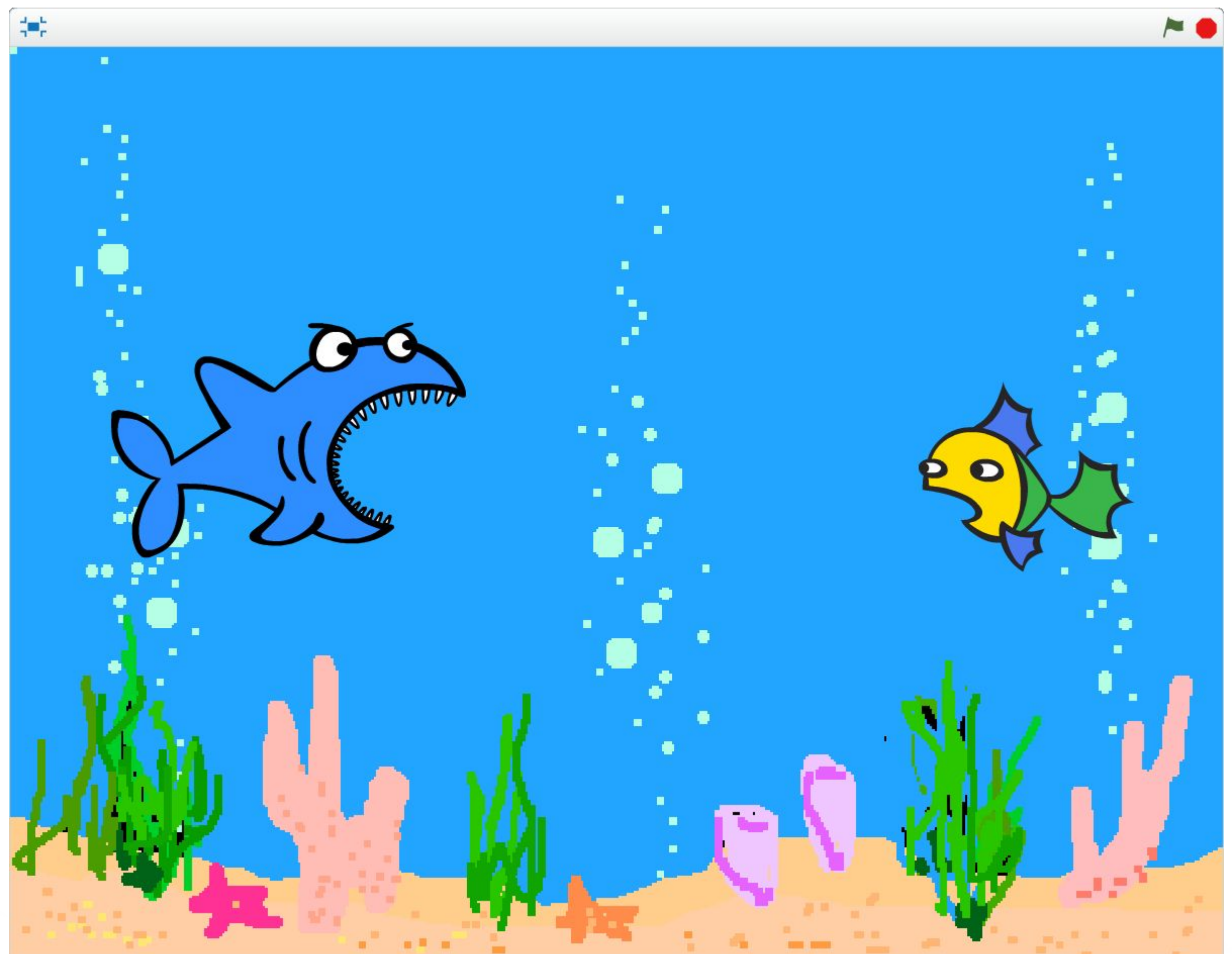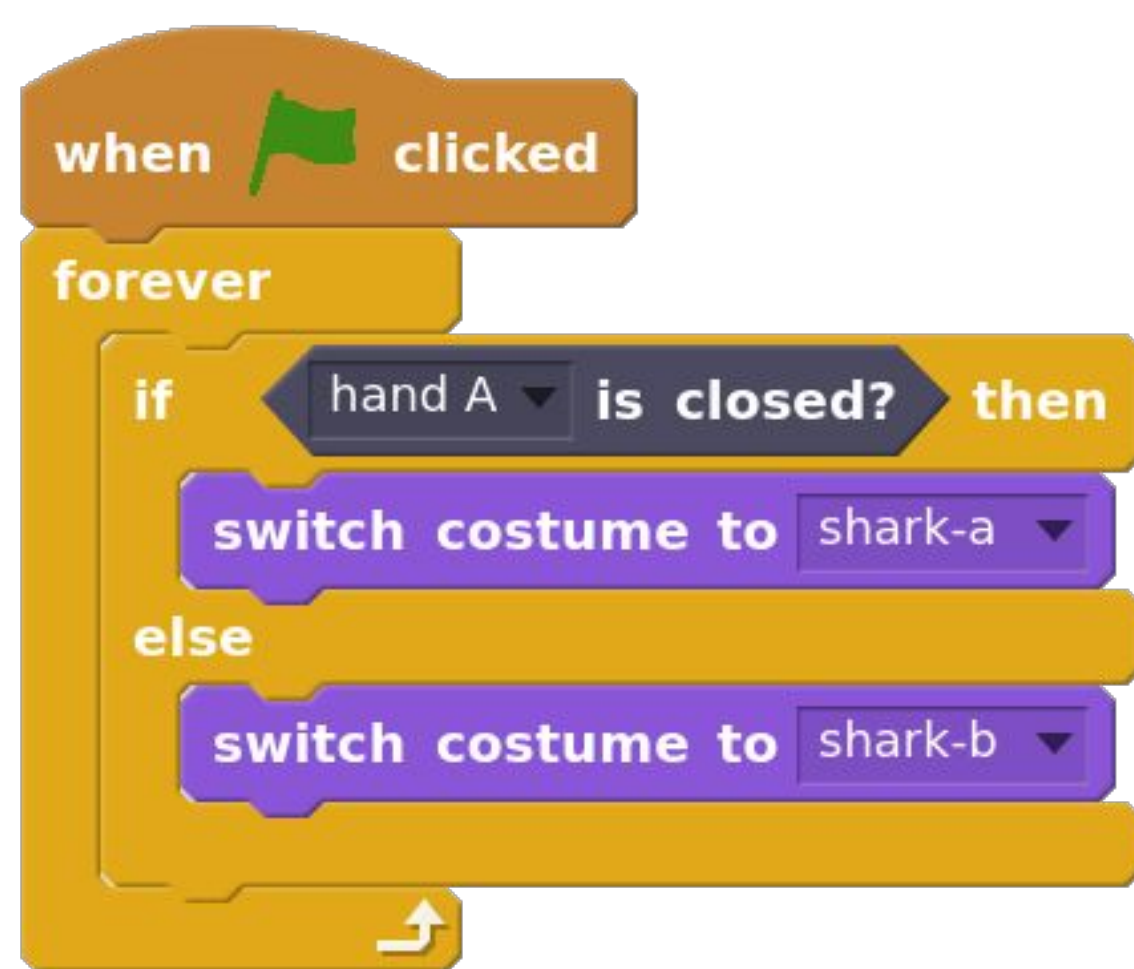
Leap Motion

What does it do?

The Leap Motion extension adds new blocks to Scratch for tracking hand movements. You can get coordinate information for up to 10 fingers and 2 hands using the Leap Motion extension. The Leap Motion allows students to get creative in designing new ways to interact with Scratch!
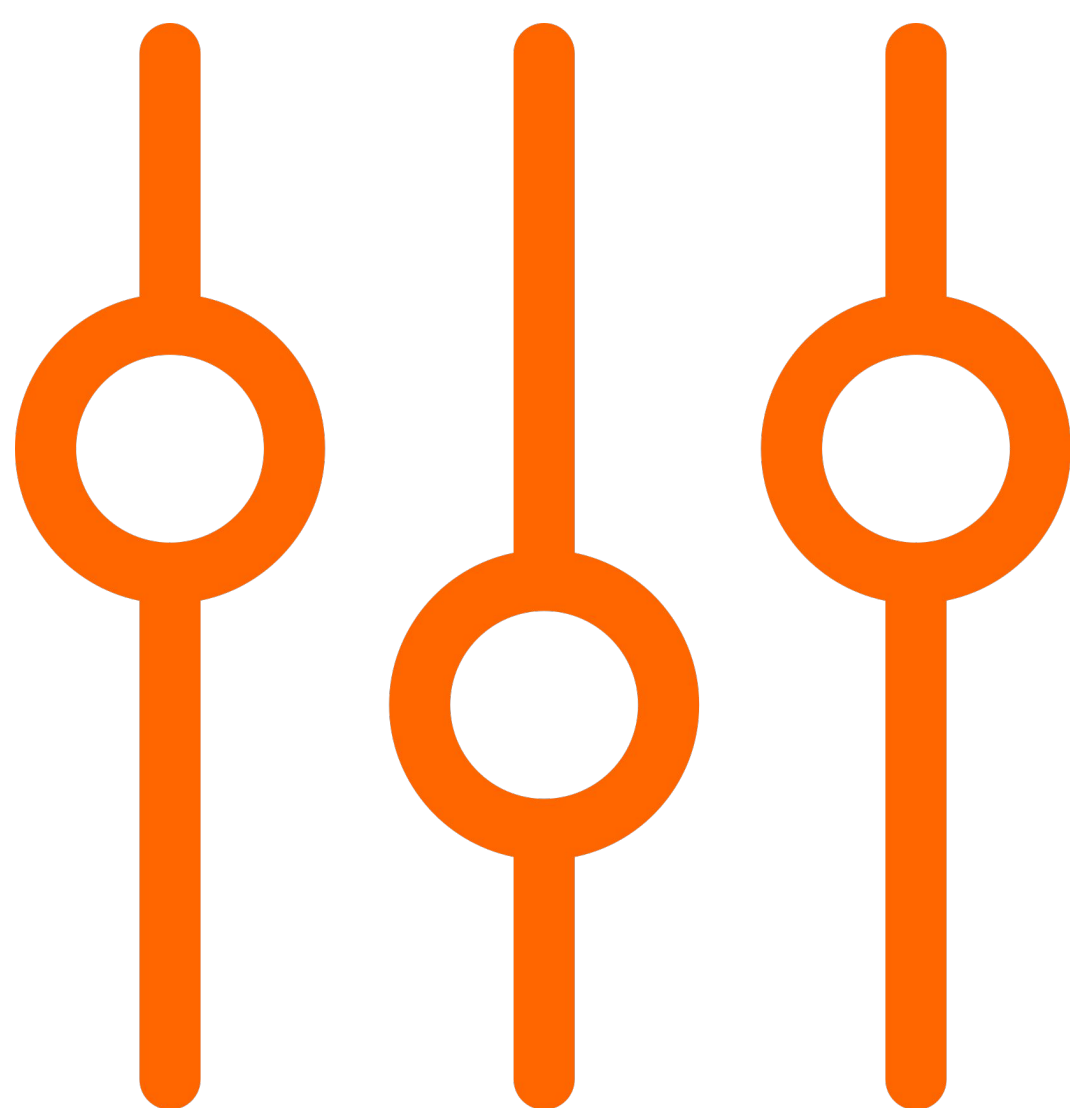
Sound Synthesizer

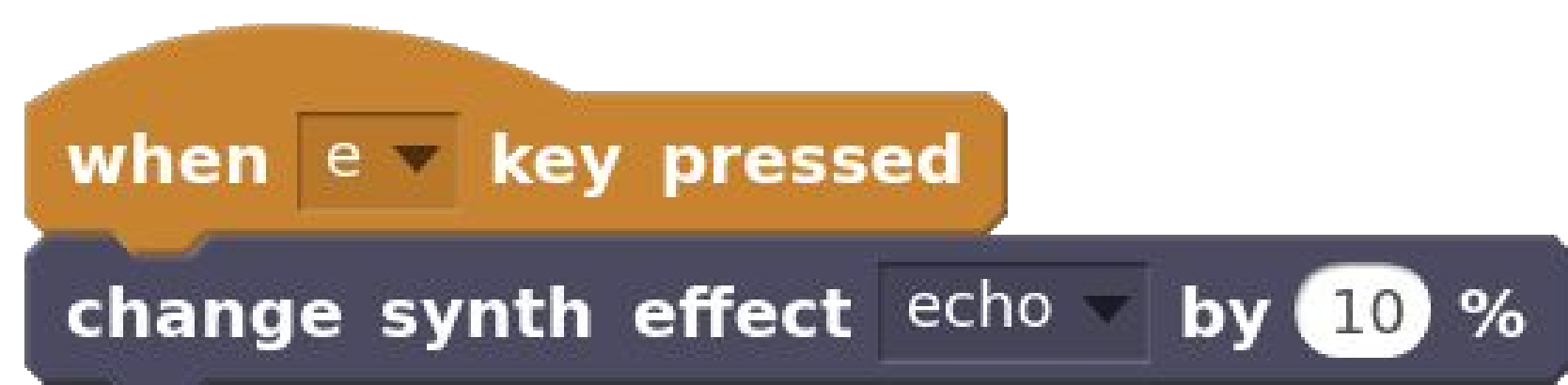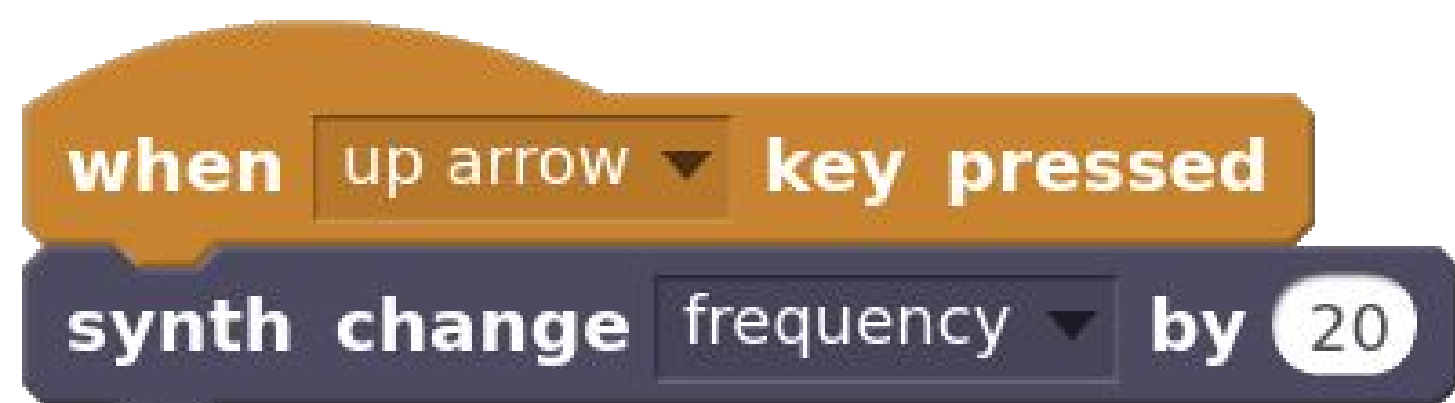## What does it do?

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.

when [space ▼] key pressed
synth on for (0.5) secs

when [up arrow ▼] key pressed
synth change [frequency ▼] by (20)

when [e ▼] key pressed
change synth effect [echo ▼] by (10) %

Text To Speech

What does it do?

The name says it all! The Text To Speech extension converts what you type into spoken words. With this simple extension you can really make your sprites "say" anything!

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

Let's Chat

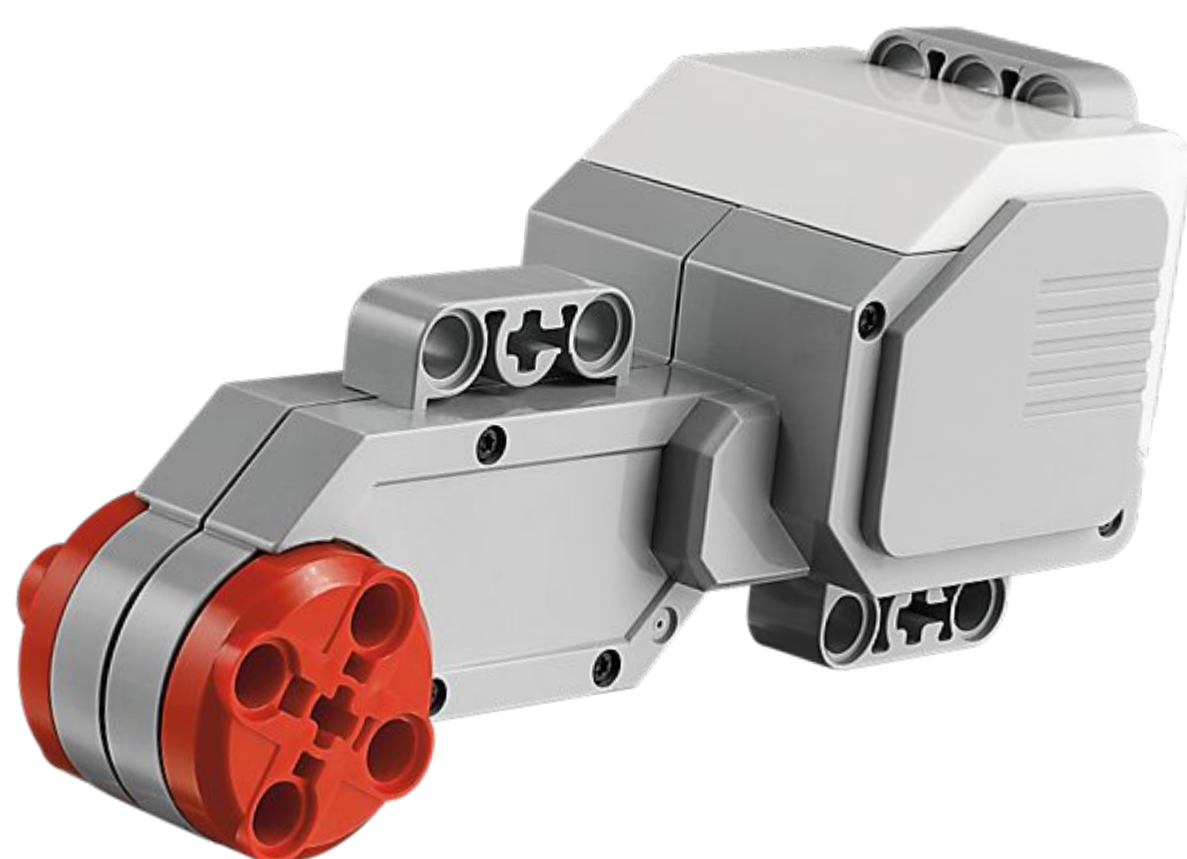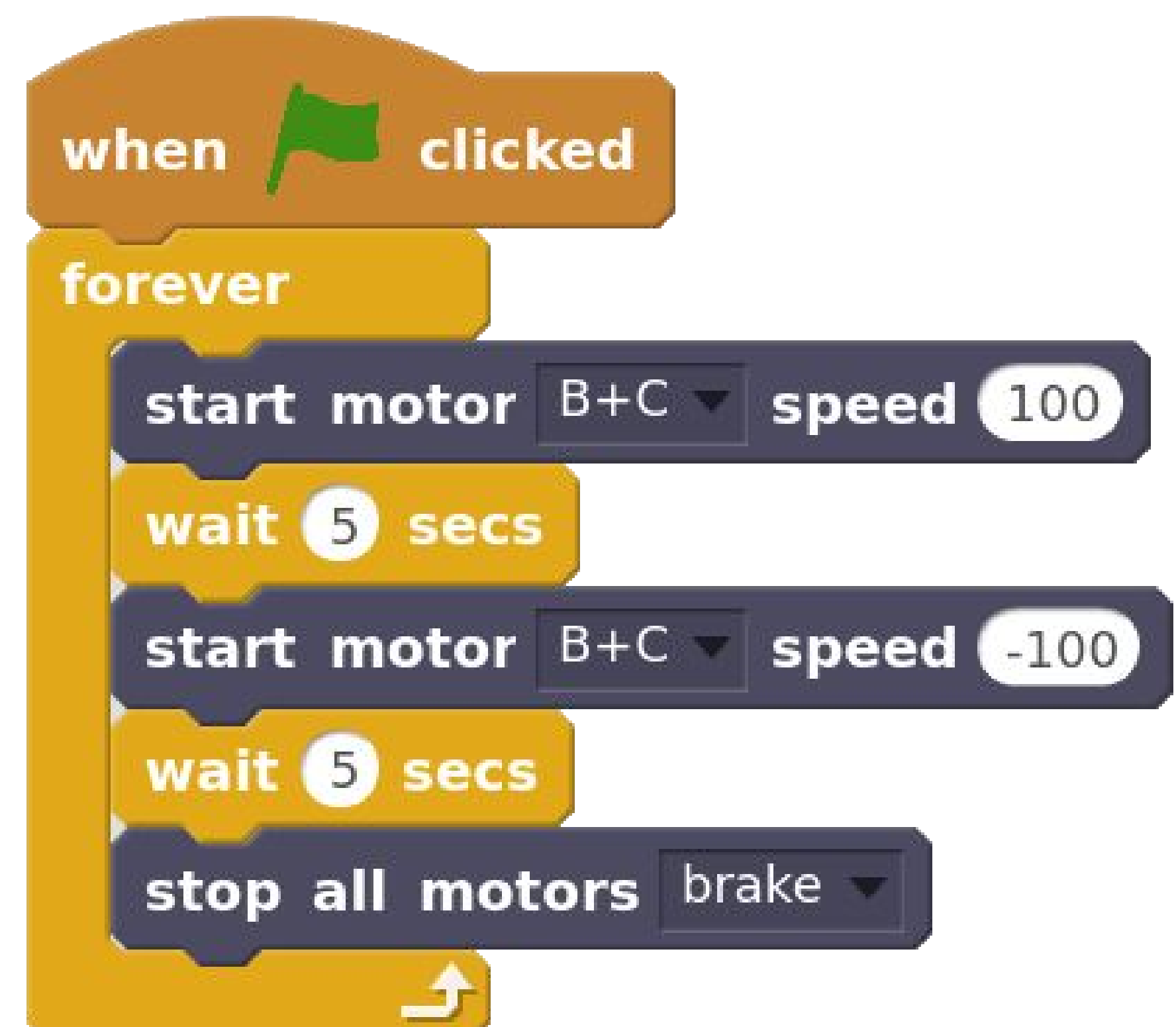So much to say . . .

speak Let's Chat

EV3

What does it do?

The EV3+Scratch extension lets you control a LEGO EV3 Mindstorms brick with Scratch. With this extension you can control motors, use the built-in buttons, and even play sounds from your EV3 brick! The extension works wirelessly over Bluetooth so your robot is free to move without being tied to the computer
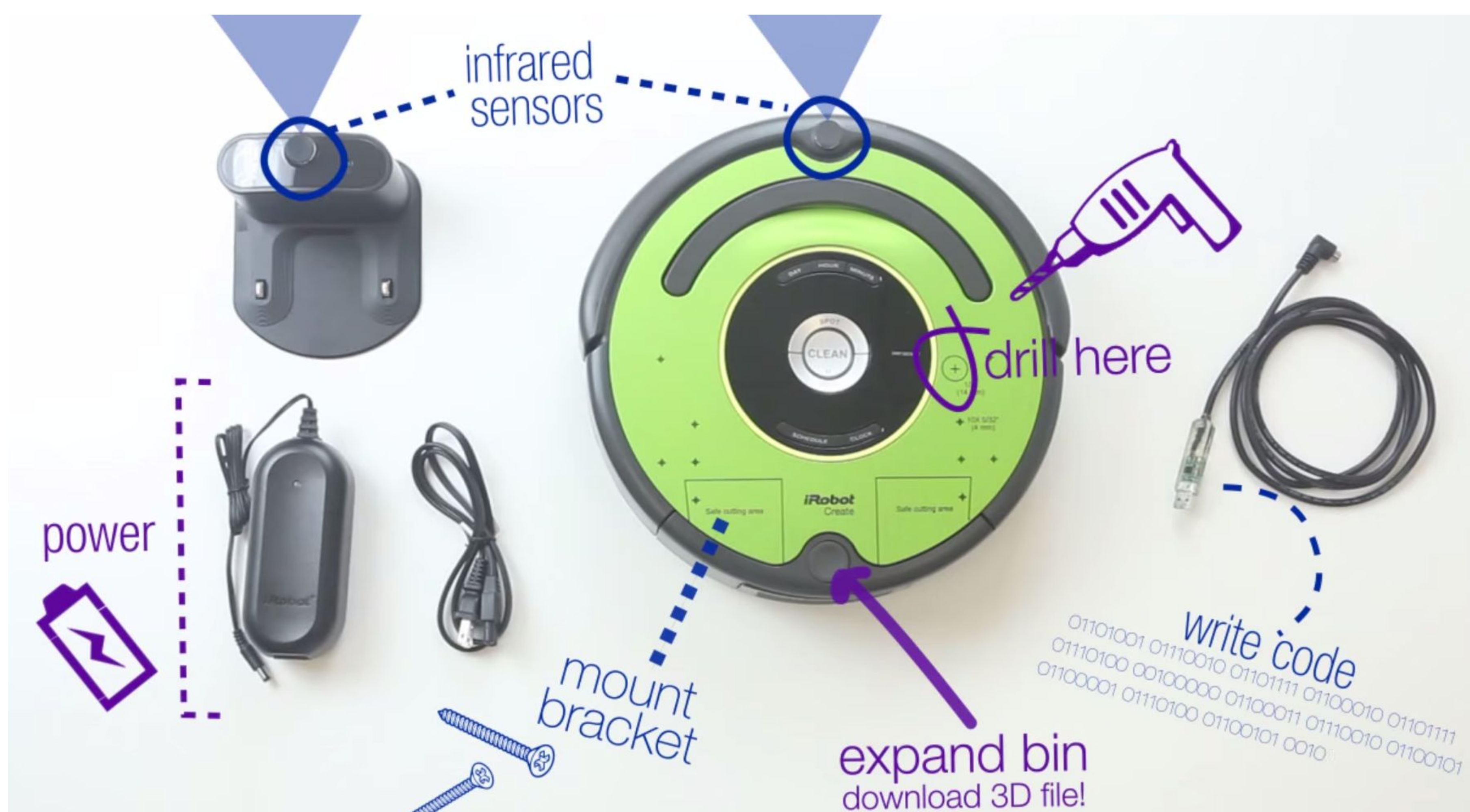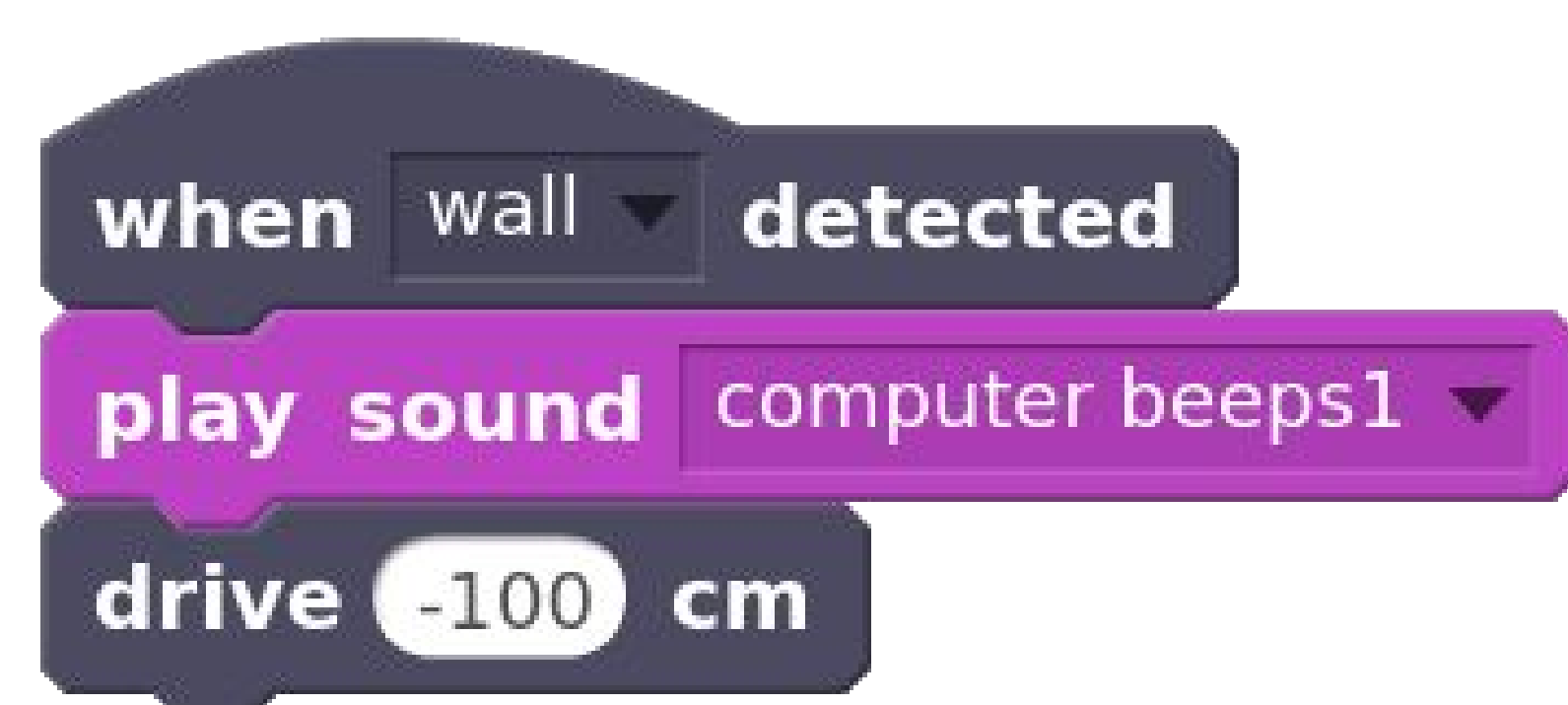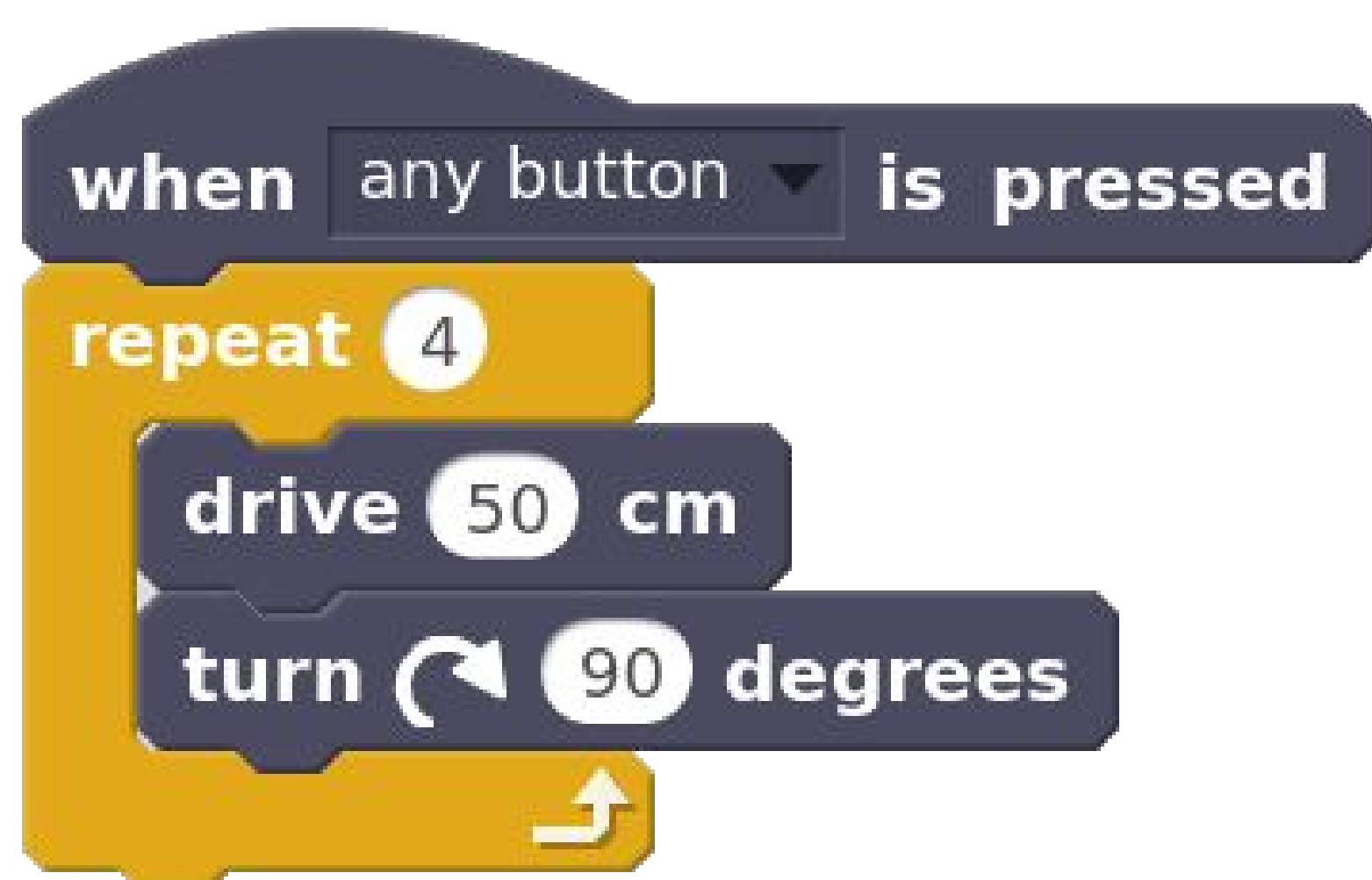
iRobot Create 2

What does it do?

The iRobot Create 2 extension lets you control a iRobot Create 2 robot from Scratch. The Create 2 is a STEM education resource for students, educators, and developers. With this extension, you can make the robot move around, detect walls and edges, control LEDs, and even play sounds!
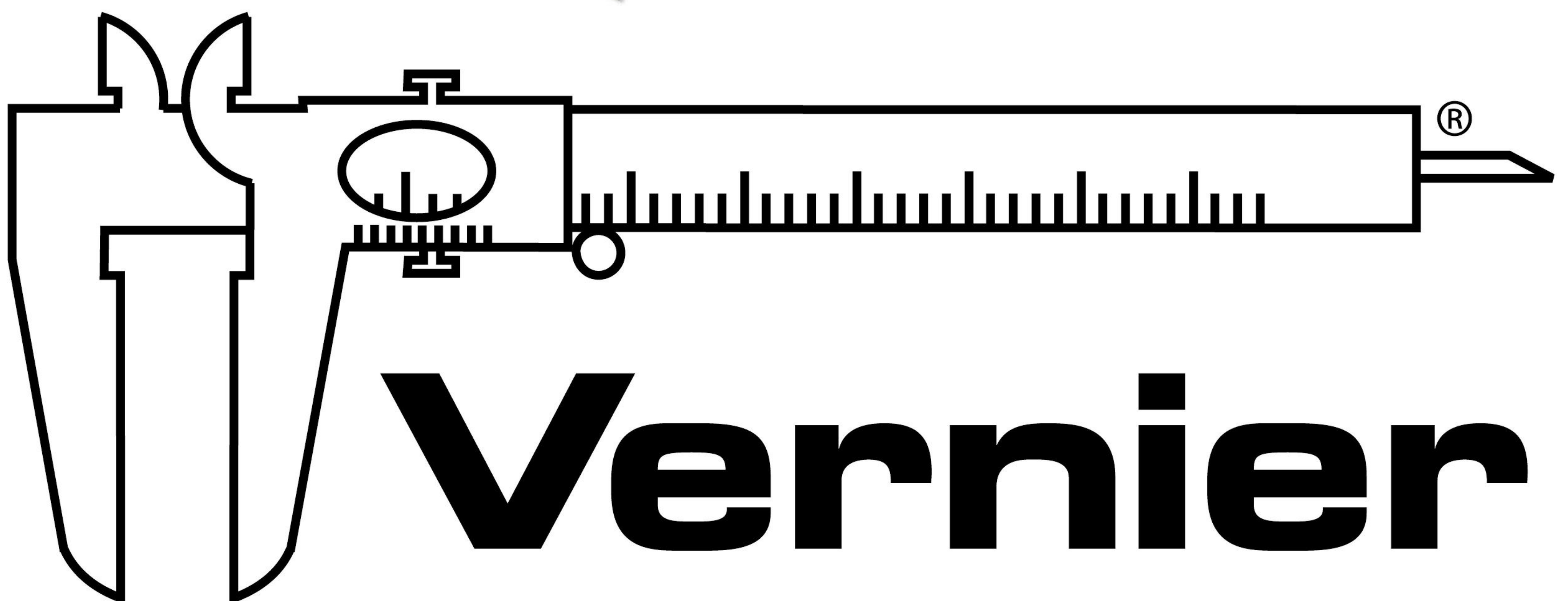
Vernier Go!Temp

What does it do?

The Vernier Go!Temp sensor lets you take measurements from the environment around you. With the Go!Temp extension you can easily incorporate temperature readings into your Scratch projects and even be notified when the temperature falls above or a below a certain value.
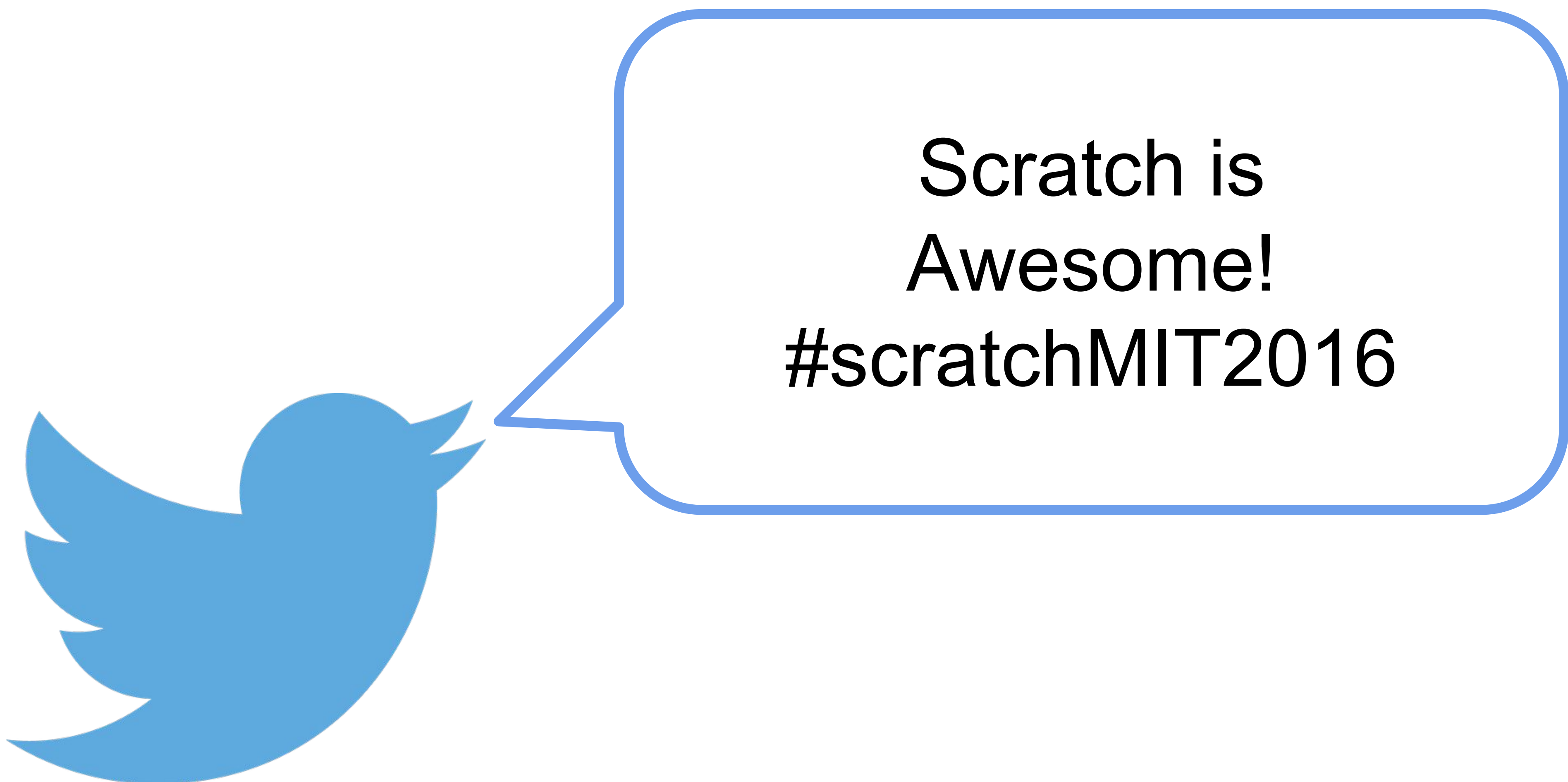
Vernier®

VERNIER SOFTWARE & TECHNOLOGY

Twitter

What does it do?

The Twitter extension lets you fetch real-time tweets from Twitter. You can either search for the latest tweet from a specific Twitter user or search for the most recent or popular containing a certain phrase.

Scratch is Awesome! #scratchMIT2016

when 🚩 clicked

say most recent ▼ tweet containing #scratch2016AMS

Firebase Mesh

What does it do?

Firebase Mesh lets you communicate between Scratch projects wirelessly! With this extension you could create multiplayer games, quizzes, stories, the possibilities are endless.

The extension leverages Firebase as the backend that makes this all possible!