Dancing Rainbow

MicroBlocks

Go to https://microblocks.fun/run/microblocks.html and connect the micro:bit or Calliope mini 3 to the MicroBlocks IDE via BLE. You will see a green background behind the **Connect** icon when you are connected.

Make the blocks you see below using blocks from the **Control** category, and from the **Microphone** library. The end result should look like this:

Snap*!*

Go to https://snap.berkeley.edu/snap/snap.html and add the **MicroBlocks** library. You will get an extra category of blocks. Make a variable called **value**. Choose as the costume for your **sprite** the costume called **rainbow.** Edit the costume and move the crosshairs so the rotation center of the image is at the bottom.
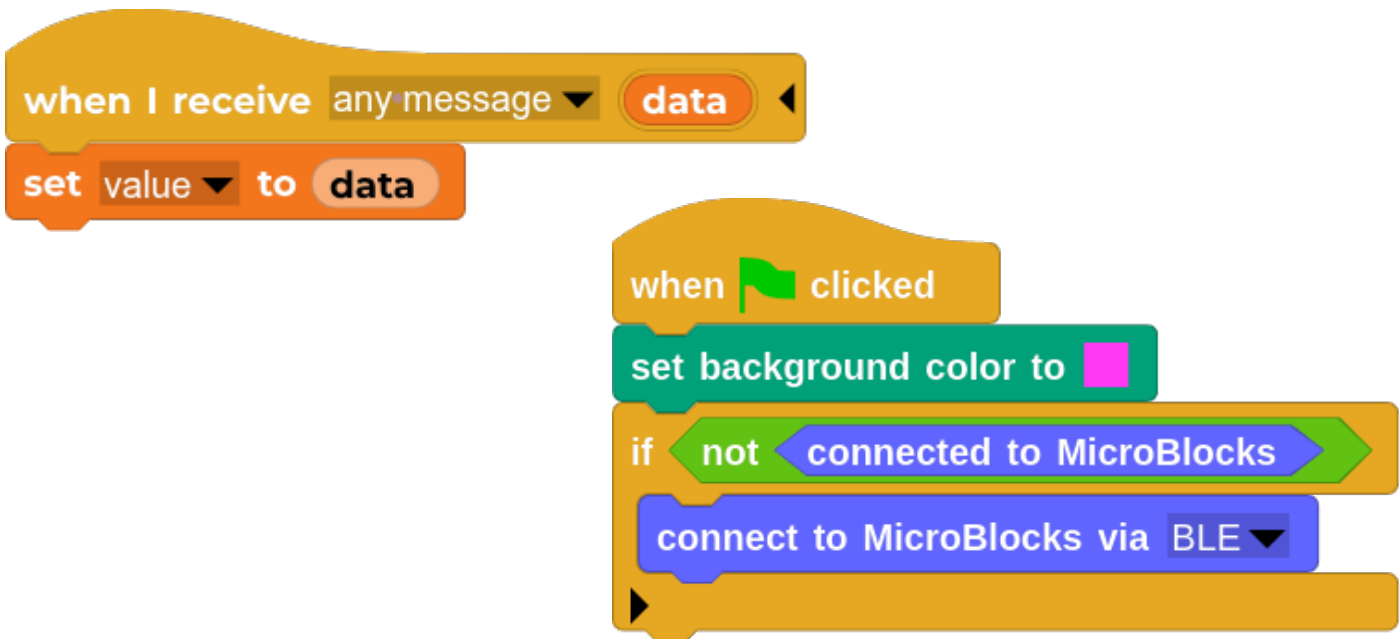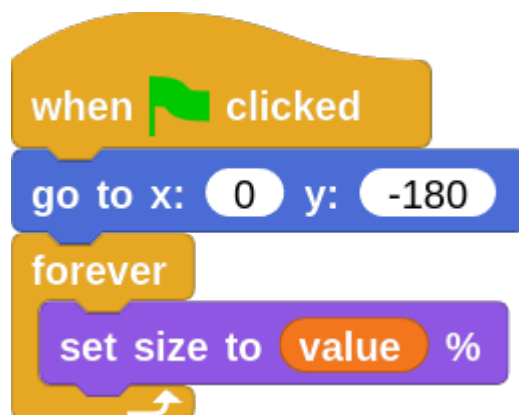
Dancing Rainbow

Snap!

Scripts that belong with the **background** should look like this. Make the background color pink.

```
when I receive [any message ▼] (data) ◀
set [value ▼] to (data)
```

```
when 🚩 clicked
set background color to [🟪]
if < not < connected to MicroBlocks > >
    connect to MicroBlocks via [BLE ▼]
    ▶
```

Scripts that belong with the **sprite** should looks like this

```
when 🚩 clicked
go to x: (0) y: (-180)
forever
    set size to (value) %
```

Press the **green flag** icon, connect to your micro:bit or Calliope Mini 3 using BLE. Talk to your board and the rainbow will grow or shrink while you talk. Play some music and see what happens to the rainbow.