Magnetic Field

MicroBlocks

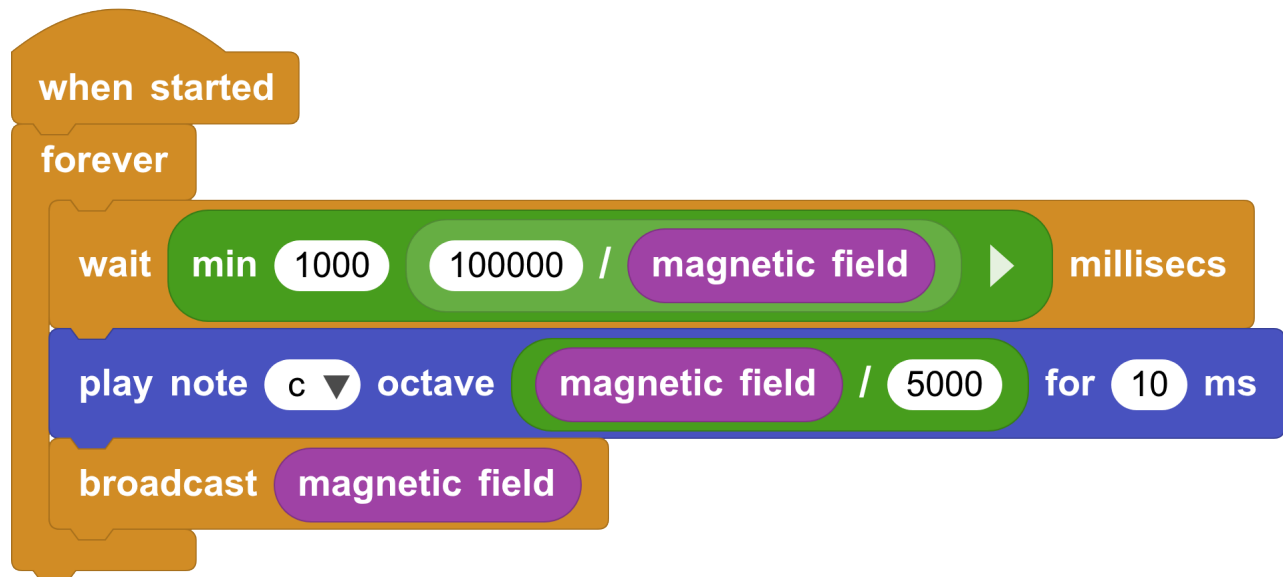Go to https://microblocks.fun/run/microblocks.html and connect the micro:bit or Calliope mini 3 to the MicroBlocks IDE via BLE. You will see a green background behind the **Connect** icon when you are connected.

Make the blocks you see below using the categories **Control** and **Operators**, and from the libraries **Tone** and **Basic Sensors**. 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 **ball d.**
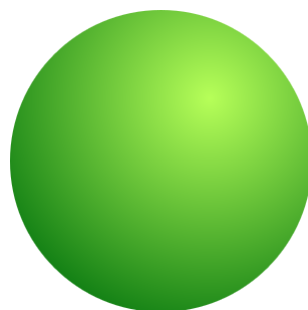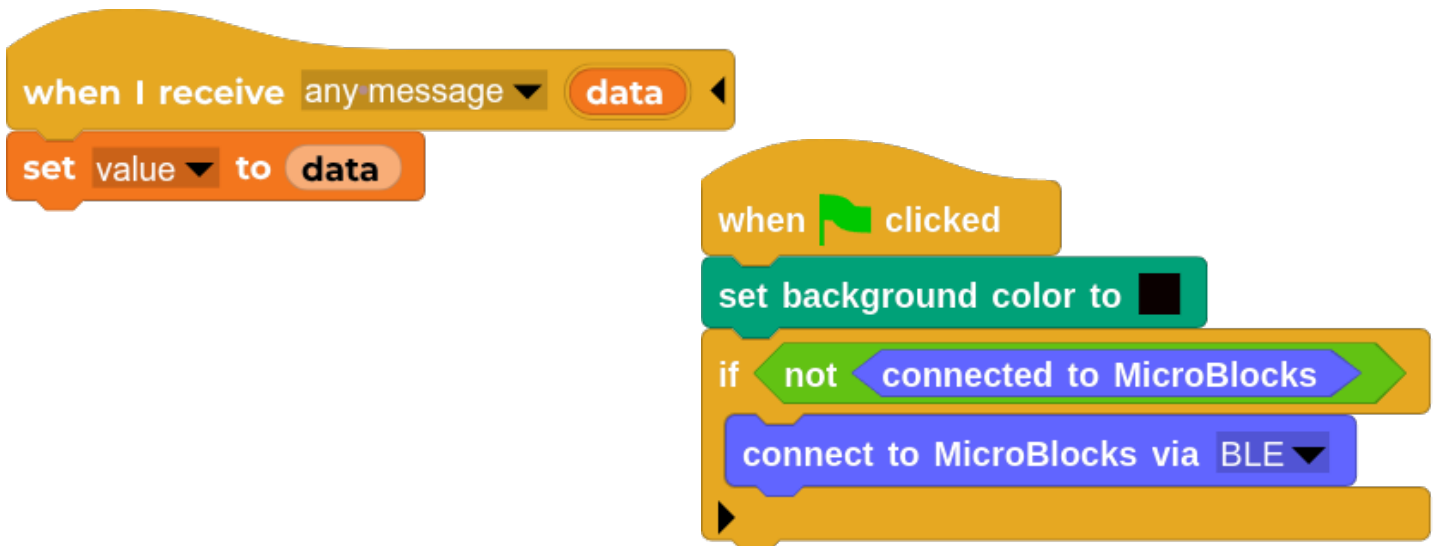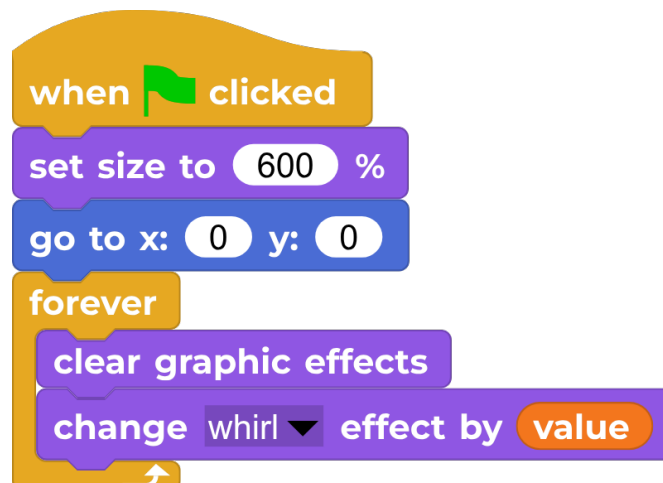
Magnetic Field

Snap!

Scripts that belong with the **background** should look like this. Make the background color as dark as possible.

```
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
set size to (600) %
go to x: (0) y: (0)
forever
    clear graphic effects
    change whirl ▼ effect by (value)
```

Press the **green flag** icon, connect to your micro:bit or Calliope Mini 3 using BLE, move your board over your laptop or your phone and see a swirling effect appear in the green orb. When do you think the swirling effect and sound coming from your board changes?