Radio Controled Music and lights

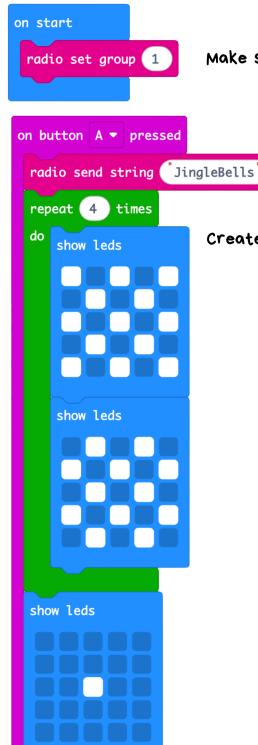Log into MakeCode.

This link takes you to the double editor.

https://makecode.microbit.org/---multi#

Micro:bit 1 - 'Remote control' micro:bit.

```
on start
    radio set group  1
```

Make sure the radio group is the same for both micro:bits.

```
on button  A ▾  pressed
    radio send string  "JingleBells"
    repeat  4  times
    do  show leds
        [ ][ ][ ][ ][ ]

        show leds

        show leds
```

Name the string.

(It doesn't need to be JingleBells!)

Create an animation using the micro:bit's own built in LEDs.

```
on button  A+B ▾  pressed
    reset
```

Make a re-set button - just in case!

Radio Controled Music and lights

Code for Micro:bit 2

```
on start
    radio set group  1
```

See 'Music and Lights' for code.

```
on radio received  receivedString
    set  Play ▾  to   true ▾
    digital write pin  P0 ▾  to  0
```

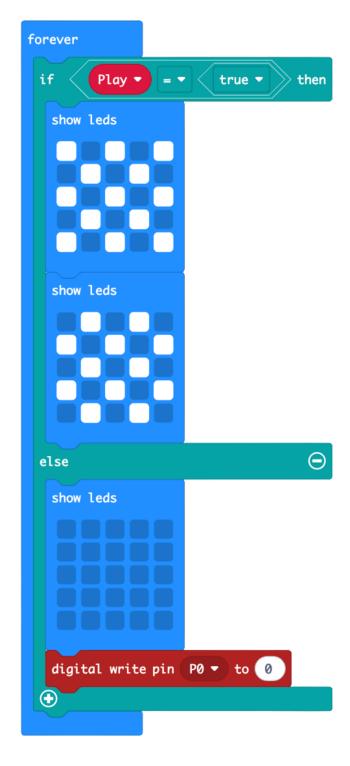Replace the 'on button A pressed' block with the 'on radio received {receivedStrong}' block.

Make a variable called 'Play' and place a 'set Play to true' block at the top…

```
digital write pin  P0 ▾  to  1
set  Play ▾  to  false ▾
```

….and a 'set Play to false' at the end.

Flash this code to micro:bit 2 and connect your fairy lights. See 'Helter Skelter Lights for instructions.

How about using your musical lights on a Christmas tree or make some origami paper lanterns? Or, attach your lights to an item of clothing and wear them! The possibilities are endless!

```
forever
    if  < Play ▾  = ▾  true ▾ >  then
        show leds
        [LED grid]
        show leds
        [LED grid]
    else ⊖
        show leds
        [LED grid]
        digital write pin  P0 ▾  to  0
    ⊕
```