



micro:bit | Radio

Libraries: **LED Display** **Radio** **Basic Sensors** Blocks from: **Control** **Operators** **Output**

Radio blocks let micro:bits communicate without wires! You need two micro:bits: one to be the sender and the other to be the receiver.

Run this script on your micro:bit. **Hint:** When you click to run it, make sure you see a yellow outline around it; that shows that it is running.

```
when radio message received?  
say radio last string radio last number
```

Have a friend run these blocks on their micro:bit.

```
radio send string Yo!  
radio send number 123
```

How far does the radio reach? Is it blocked by walls or your body?
How many letters can you send with the radio send string block?

```
radio send pair light = light level
```





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Receiver Script

After you make this script, disconnect the micro:bit and attach it to a battery.

```
when radio message received?  
  if radio last number = 1  
    display  
  else  
    clear display
```

Sender Scripts

Plug in another micro:bit and make these scripts. Press the A and B buttons to control the first micro:bit!

```
when button A pressed  
  radio send number 1  
  
when button B pressed  
  radio send number 2
```



Note: If others near you are also using radio, use different groups to avoid confusion. Add this script to both sender and receiver.

A group is like your own private radio channel. Use the same group number for your sender and receiver but different from others nearby.

```
when started  
  radio set group 10 (0-255)
```