

micro:bit | Radio

Libraries:

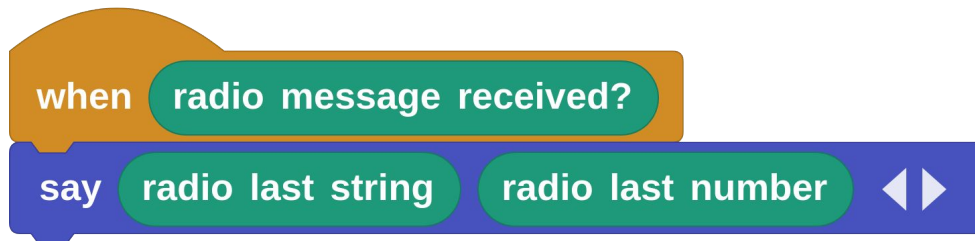
LED Display

Radio

Basic Sensors

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.



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



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?



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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
  
```

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)
  
```