



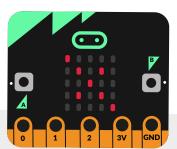


Make a crowd display! with Micro:Bits and MakeCode Blocks

Design your image

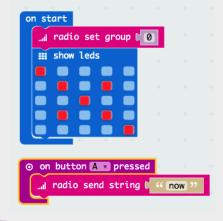
- Connect the micro:bit to your computer using the USB cable.
- 3 Drag these blocks from the **Basic** group:
 - on start

 show leds
- Open the MakeCode webpage (makecode.microbit.org) or run the offline version (pxt serve).
- 4 Design your own image for LEDs.
- Click **Download**, and then follow the instructions to copy the .hex file to your micro:bit. The LEDs on the micro:bit should light up and show your pattern.

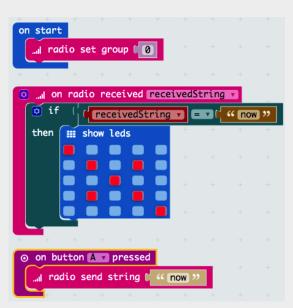


Set up the radio

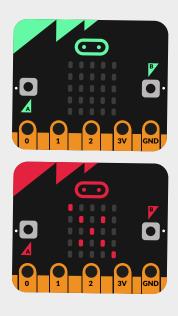
- 1 Add the radio set group block.
- Now add an **input** block that will be triggered when Button A is pressed, and fill it with a **radio send string** block. Enter some text to send as the message (the example uses "now").



Move your show leds block and add an if...then block so that the LEDs are only triggered when your message (with the same text) is picked up via the on radio received block.



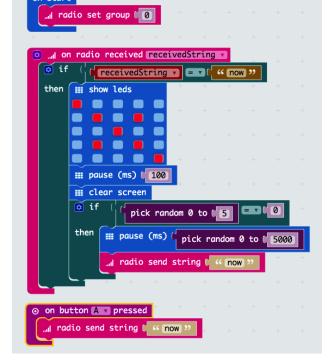
Find someone else who is at the same point and test your code. Does pressing your A button make their image appear on their micro:bit?



Can you add a **pause** and a **clear screen** block so that the image disappears after a few seconds?

Triggering an avalanche of messages

- To trigger an avalanche, have the micro:bits re-broadcast the message sometimes, but not always,after they receive it: use the pick random function to choose a number, and only broadcast the message again if the number matches a specific value.
- Use the **random** block again to include a slight pause of up to 5 seconds before re-broadcasting.
- Test your code as group and adjust the values in the random blocks so that avalanches occur as often as you like.
- 4 Work as a group to extend the project:
 - Modify the code that so pressing Button B has a different effect than pressing Button A.
 - Can you coordinate your micro:bits so that pressing a button on one of them causes a text message to be displayed on the others one letter at a time?





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