

SESSION 5 Spray-Stop-Spray

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RA

4HT]]

Oh no! What's happened here!?

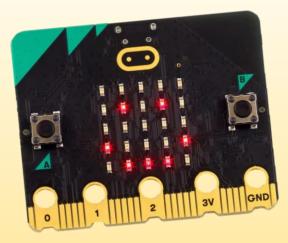


Could we use technology to find a solution to farmers spraying beyond their fields by turning off the spray as the tractor turns at the boundary and then automatically turning it back on again?

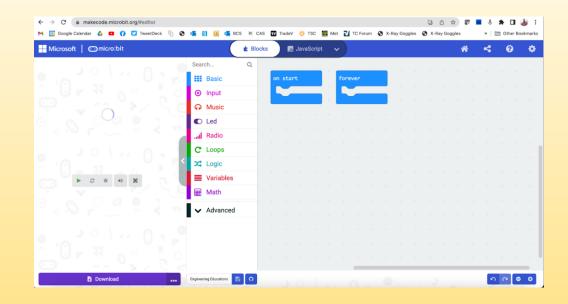
Image credits: Andy Harris / Graham Horn



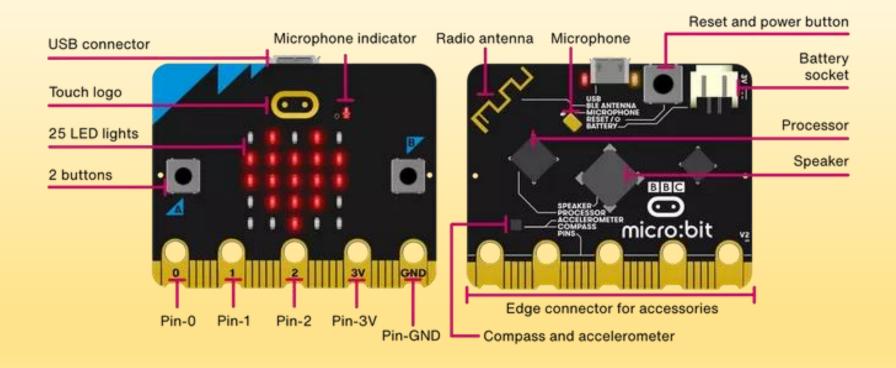
Image credits: Dominique Mollicone, Kenneth Allen, James T M Towill, Aqua Mechanical, RRayner

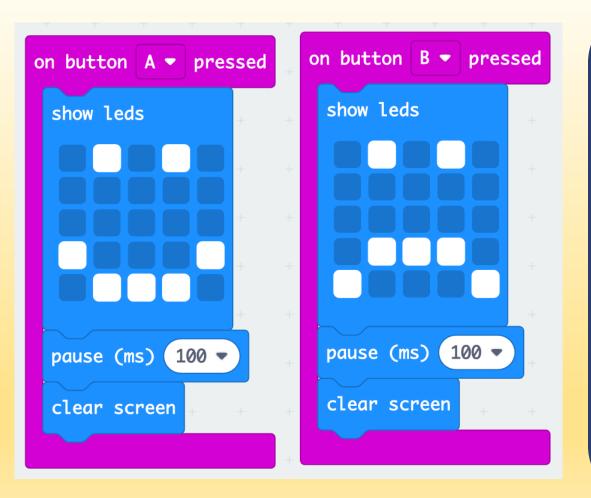


Micro:bit



Make Code Editor

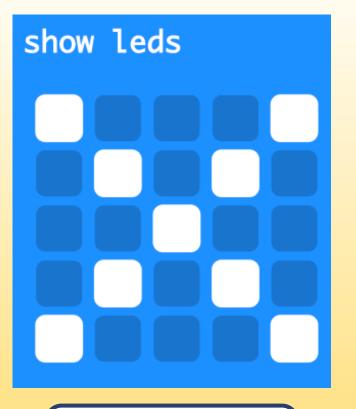




Challenge yourself

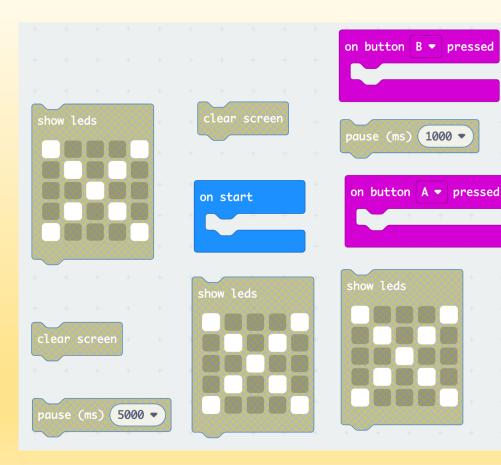
Can you:

- change what is displayed by clicking on the individual LEDs;
- add another 'on button pressed' command to get the micro:bit to display something different when buttons A+B are pressed together;
- change the time the LEDs display for before the screen is cleared?



How could we use the Micro:bit to tackle this challenge?

LEDs to show tractor is spraying



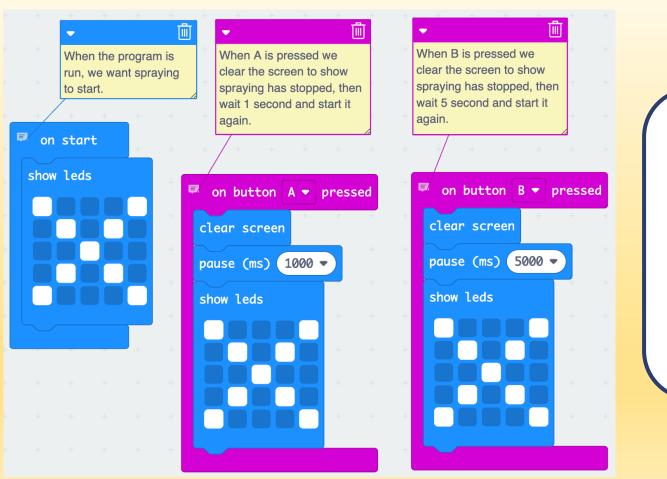
Parson's Problem

Add these commands to your micro:bit project.

Combine the code to complete the challenge:

- Spraying starts when the program is run.
- Spraying is paused for different amounts of time when either the A or B button is pressed and then automatically resumes.

How did you solve the challenge?



Think about!

- Is the time the spraying is paused for long enough?
- Can you change their code to increase it?

