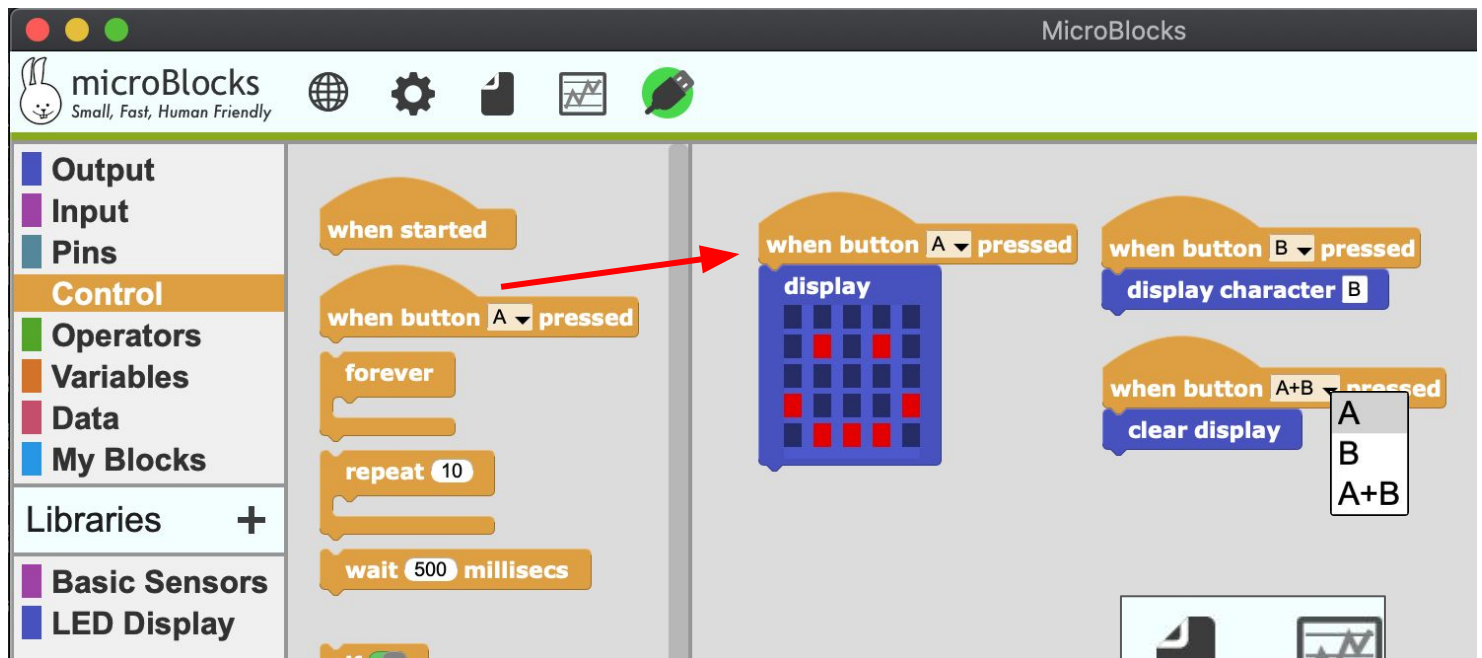
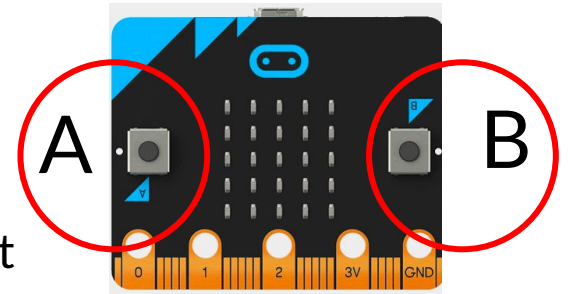




1 - Buttons and LED Display

Libraries: **LED Display**

From the Control palette, drag three “when button [A] pressed” blocks into the scripting area. Change one to “B” and one to “A + B”. Then from the LED Display palette, add blocks to be run when you press the micro:bit buttons (not keyboard buttons).



Can you change the smiley face to something else?

Don't forget to save your scripts before trying the challenge!



Challenge: Use the File menu to open and try “Two-button blink” from the examples. If you change it, save it under a different name.



2 - LED Animations

Create animations of letters, numbers, shapes, and symbols using the display, wait, and repeat blocks. Can you make your name?

when started

- display character **H**
- wait **500** millisecs
- display character **E**
- wait **500** millisecs
- display character **Y**
- wait **500** millisecs

when button A pressed

display

	■		■	
	■	■	■	
■				■

wait **500** millisecs

display

	■		■	
	■	■	■	
■				■

wait **500** millisecs

when button B pressed

repeat **10**

display

		■		

wait **100** millisecs

display

	■	■	■	
	■	■	■	
	■	■	■	
	■	■	■	

wait **100** millisecs

display

	■	■	■	■
	■	■	■	■
	■	■	■	■
	■	■	■	■
	■	■	■	■

wait **100** millisecs

Challenge: Use the File menu to open the “Heartbeat” example. It animates a “beating heart”. ❤️ Can you change it to a stick figure doing jumping jacks?