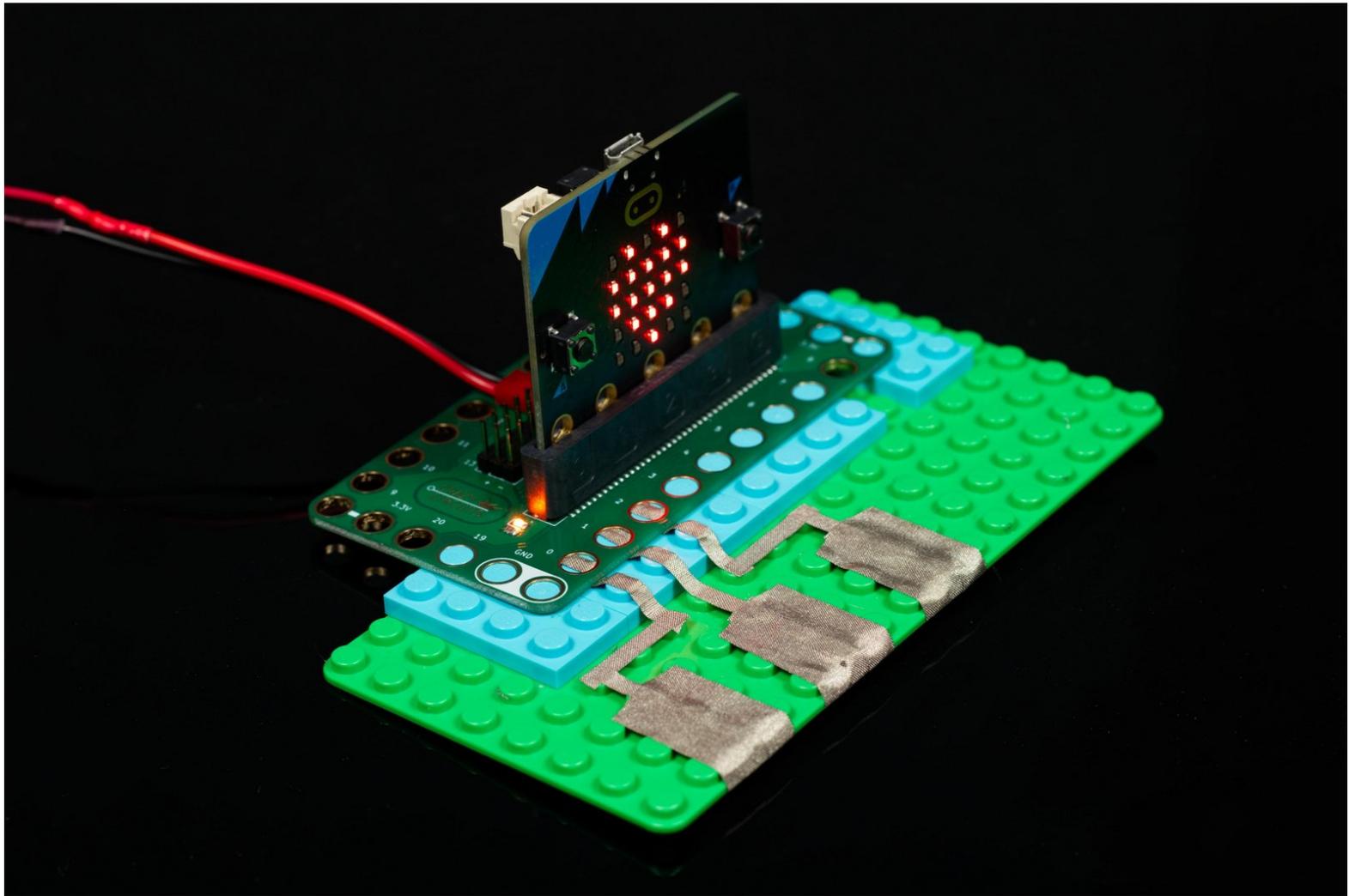




Capacitive Touch v2

Written By: Pete Prodoehl



INTRODUCTION

Use a Bit Board along with a micro:bit V2, some LEGO parts and conductive Maker Tape to build a capacitive sensing circuit that can show icons on the LED display with just the touch of a finger.

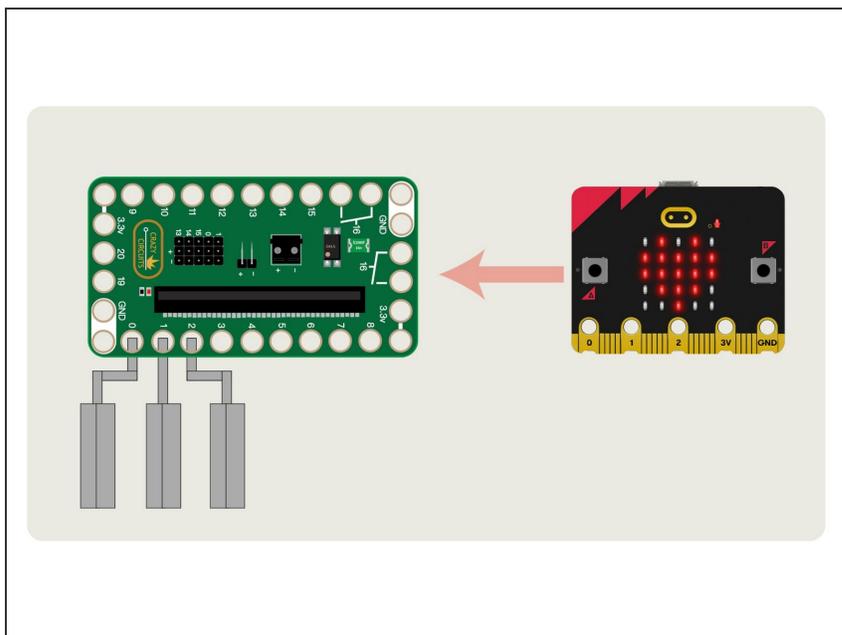
TOOLS:

- [Scissors](#) (1)
- [Computer](#) (1)

PARTS:

- [Crazy Circuits Bit Board](#) (1)
- [micro:bit](#) (1)
V2
- [Maker Tape](#) (1)
1/8"

Step 1 — Build your Circuit

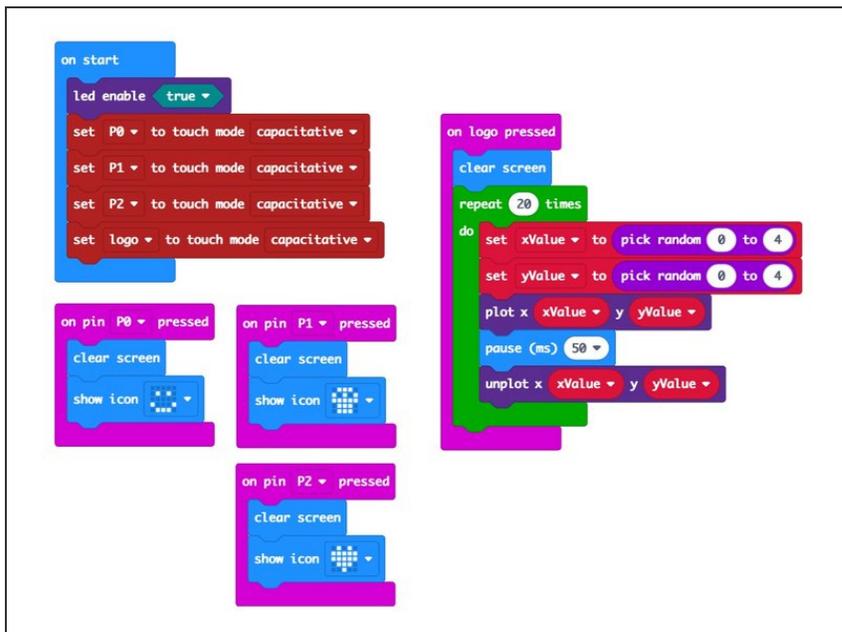


- Gather your components. You will need a micro:bit V2, a Bit Board, and some 1/8" Maker Tape.

⚠️ You do need a V2 micro:bit as it supports capacitive touch. Previous versions will not work for this project. (You might be interested in our [guide to capacitive touch on the micro:bit V1 board.](#))

- Once you have your components, assemble the parts onto a LEGO baseplate and use Maker Tape to connect the LEDs.

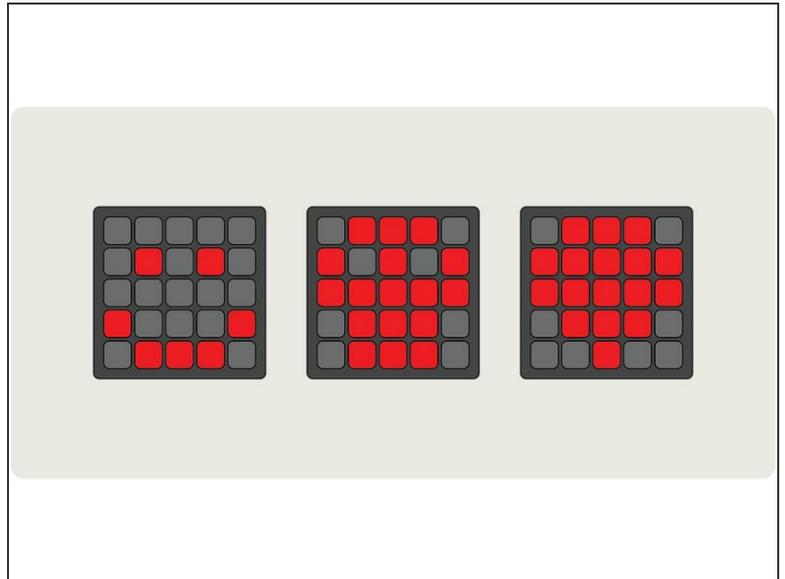
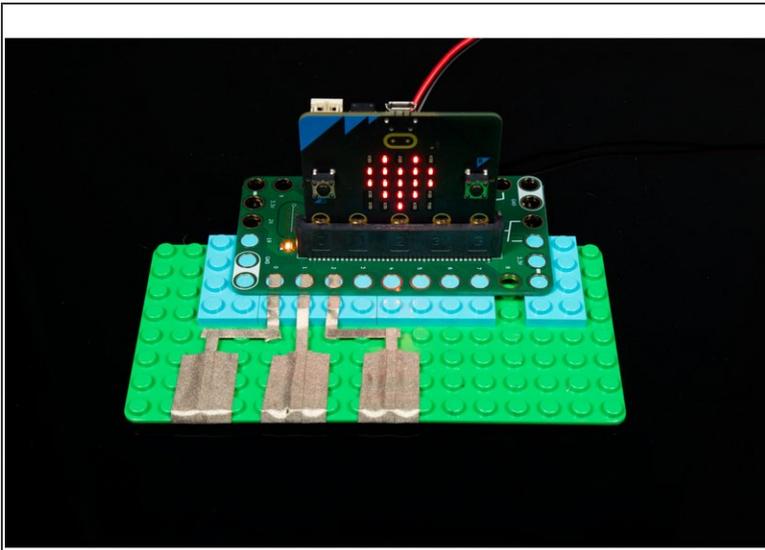
Step 2 — The Code



⚠️ Normally we'd link to the code here, but as the micro:bit V2 is not released as of the time of this writing, some of the code *may* change before it is available to the public.

- ★ We will update this guide when the MakeCode editor has been updated to fully support the micro:bit V2.

Step 3 — Test it Out!



- Touching the tape connected to Pin 0, 1, or 2 will show an icon on the micro:bit's built-in LED matrix.
- On the micro:bit V2 the logo is copper plated and also serves as an additional touch point. We've set our program to play a simple animation when touched.
- ⓘ You can choose from a variety of built-in icons or you can draw your own in the MakeCode interface.