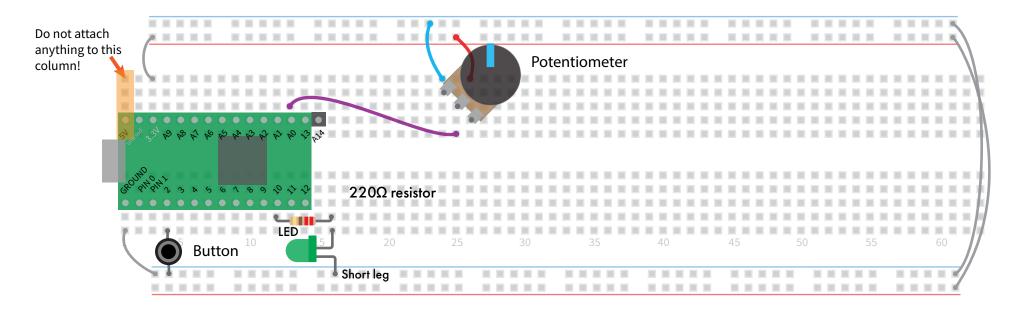
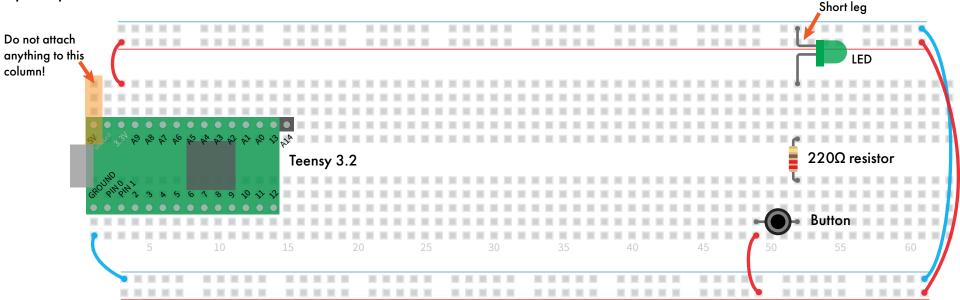
Setup 2 Analog and digital, in and out



Grey jumpers are already installed.

The top left pin of the pot connected to the blue line. The Middle goes to pin A0 of the Teensy. The bottom right connects to red.

Setup 1 Button, LED, Resistor



Here we're just using the Teensy to deliver power to the breadboard.

USB supplies 5 Volts but the Teenys can old handle 3.3V so that's what well be using.

Use any sized jumper wires work for you.

The colors just here indicate what they are connected to. 3.3V for the red bus line, ground for the blue bus line The button can go neither direction.

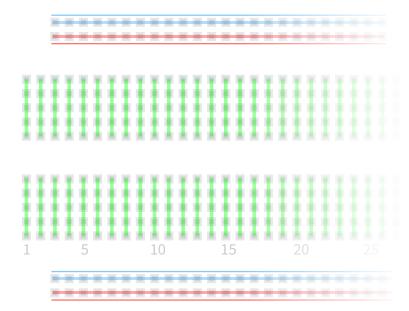
There are two resistors in your kit. Use the smaller one.

The LED has a long and short leg and needs to be installed with the shorter one will go in the blue line at the top



Resistors values are indicated with the colored lines, not thier size. The smaller one can handle less wattage than the larger one but we don't need to worry about that here.

Resistors limit the flow of electricity. Without it the LED would get too much and burn out quickly.

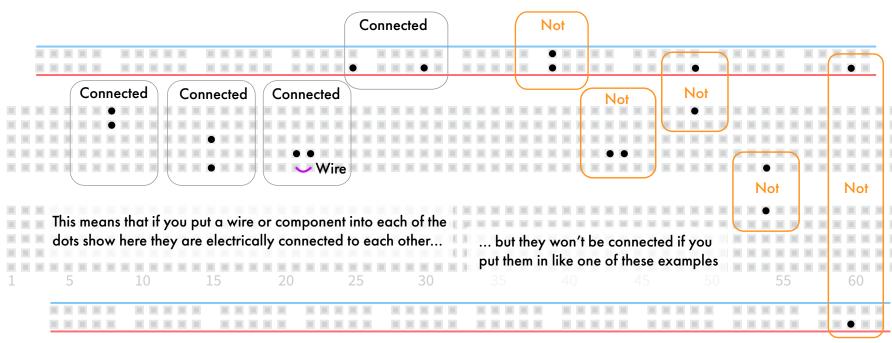


Breadboards make it easy to assemble electronic circuits without soldering

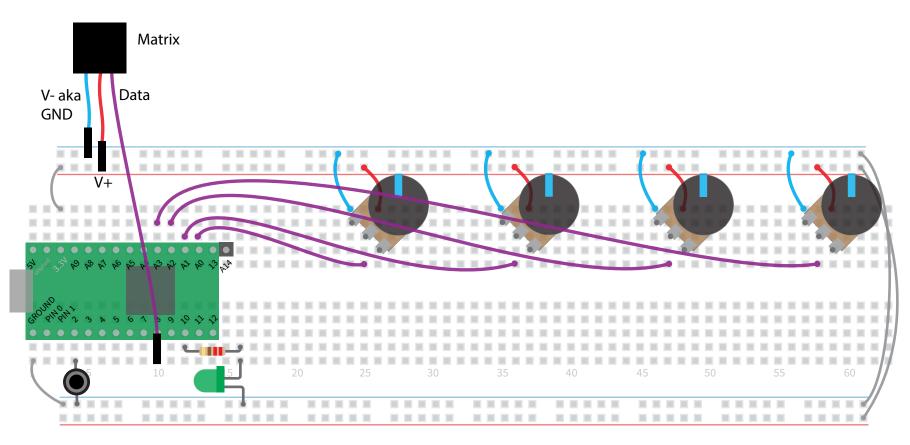
The holes on a breadboard are connected as show with the colored lines.

The vertical strips on either side of the central gap are connected in groups of five.

The horizontal red and blue "bus" lines are connected all the way across the board.



Setup 3 LED matrix



Use the long jumpers with black plastic ends to connect the LED matrix to the breadboard.

The socket side connects to the matrix while the pins go in the breadboard.

There are several types of panels with slightly different markings.

Data should go to "Data in" of "LED in"

Ground is V- or GND

Power is V+ or 5V (don't actually connect it to 5V, it goes to the 3.3V line like everything else)

Don't worry if you have it hooked up incorrectly, it won't blow up.