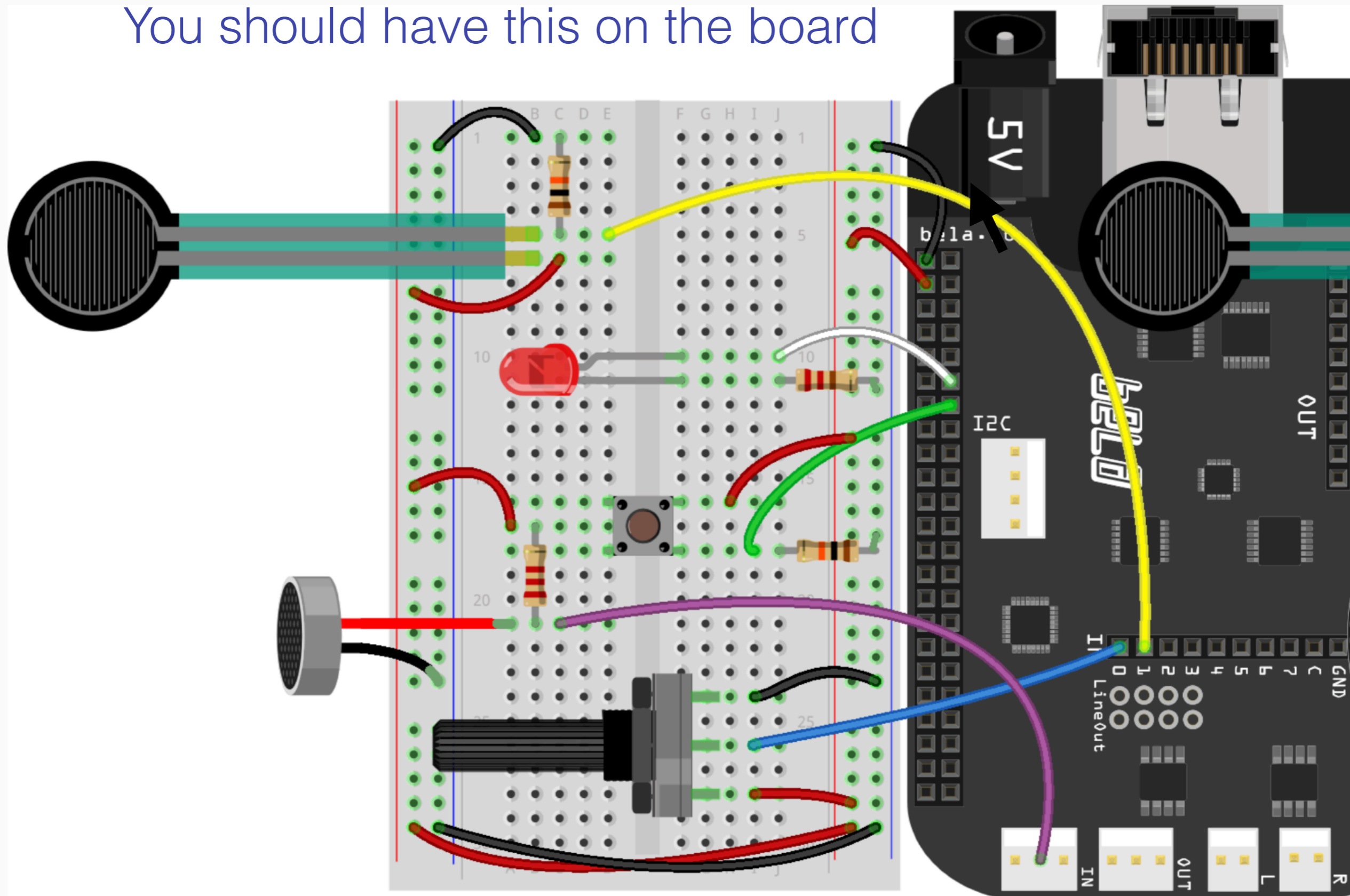


Working with Samples

example: sample-scrub

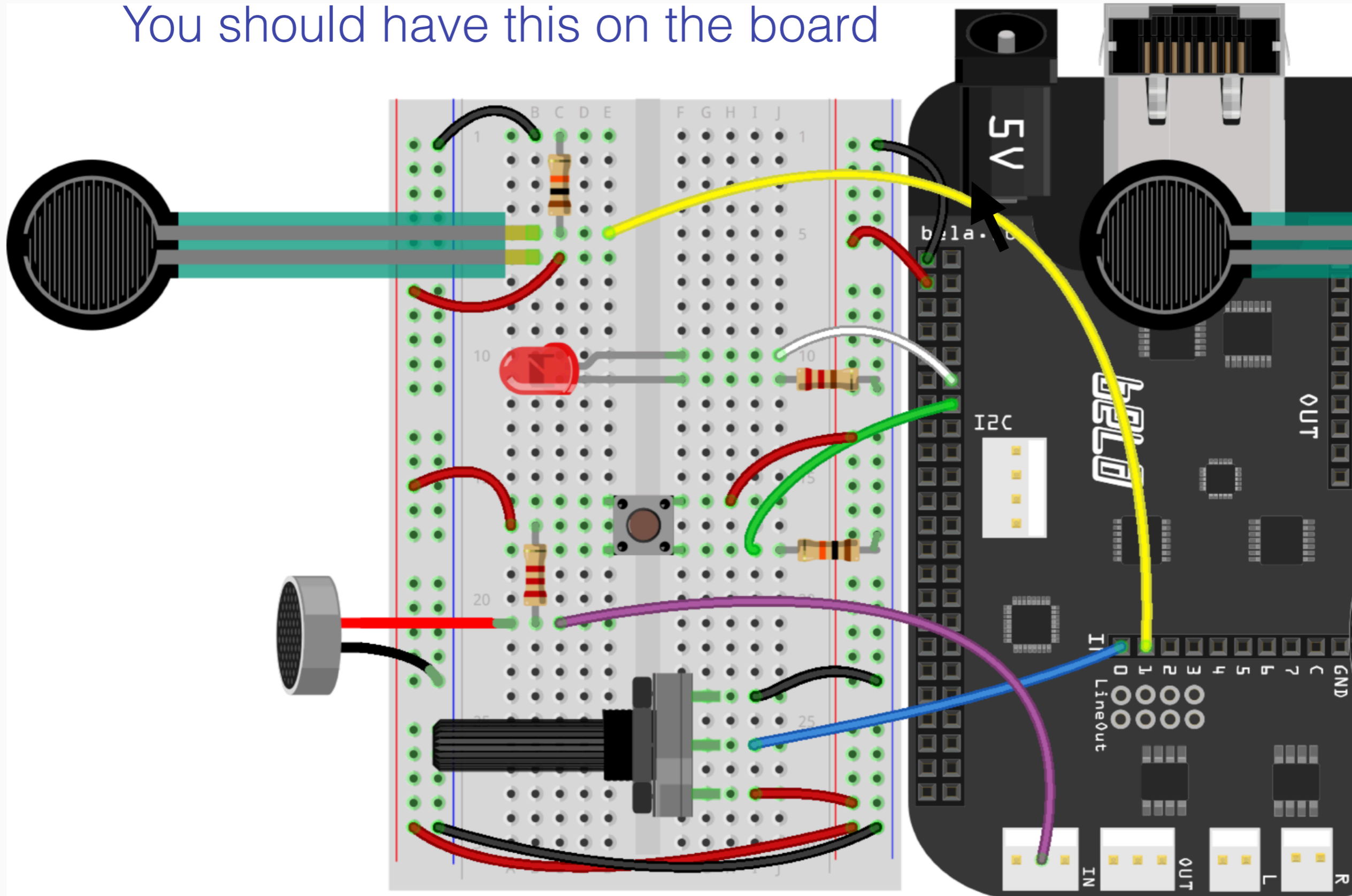
You should have this on the board



Sampler

example: samples-playback

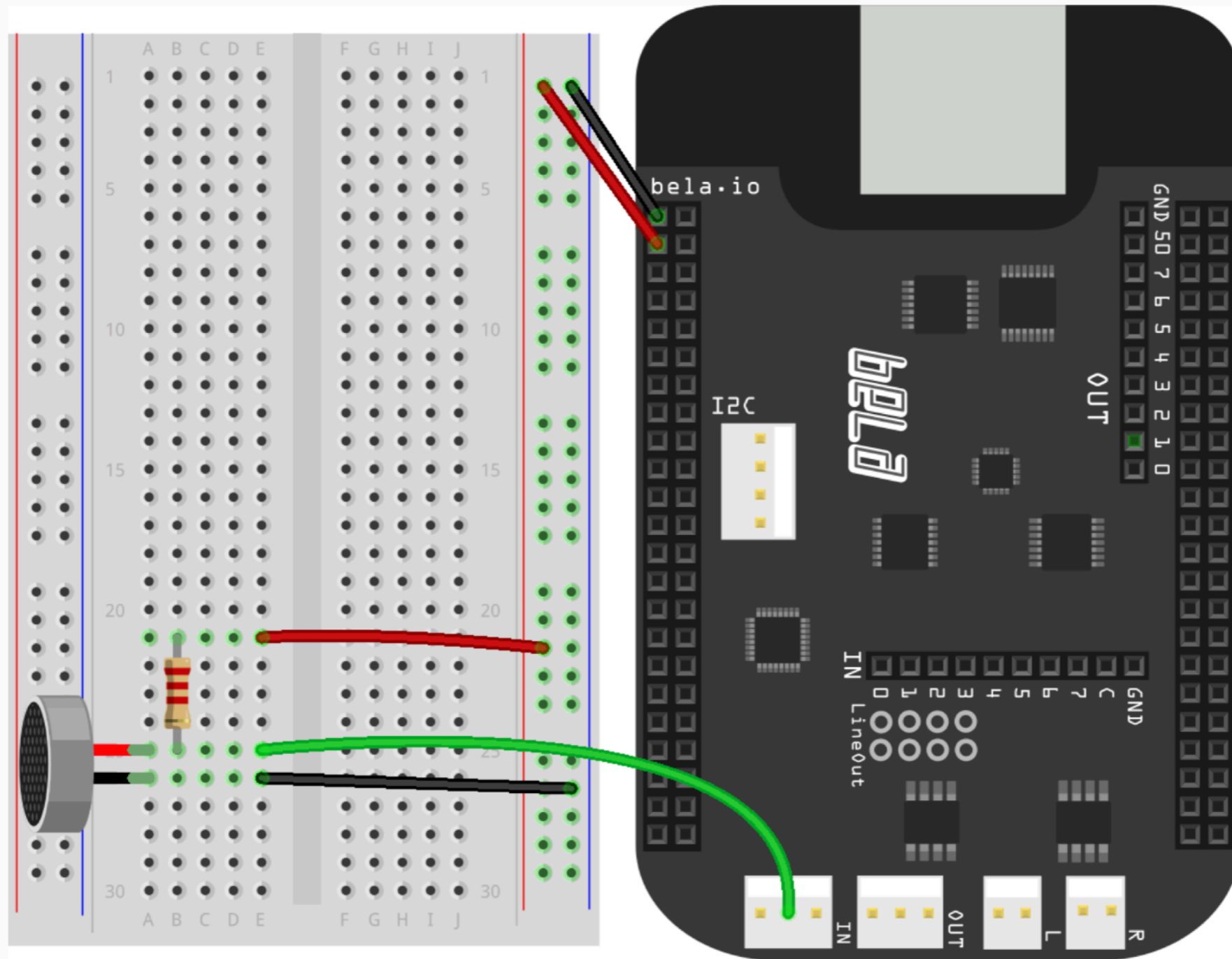
You should have this on the board



Audio Analysis

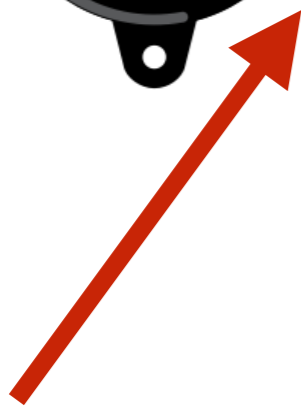
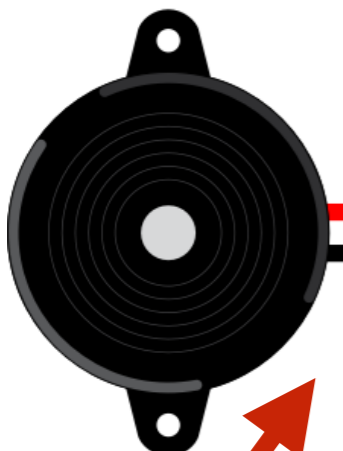
example: pitch-tracking

You should have this on the board

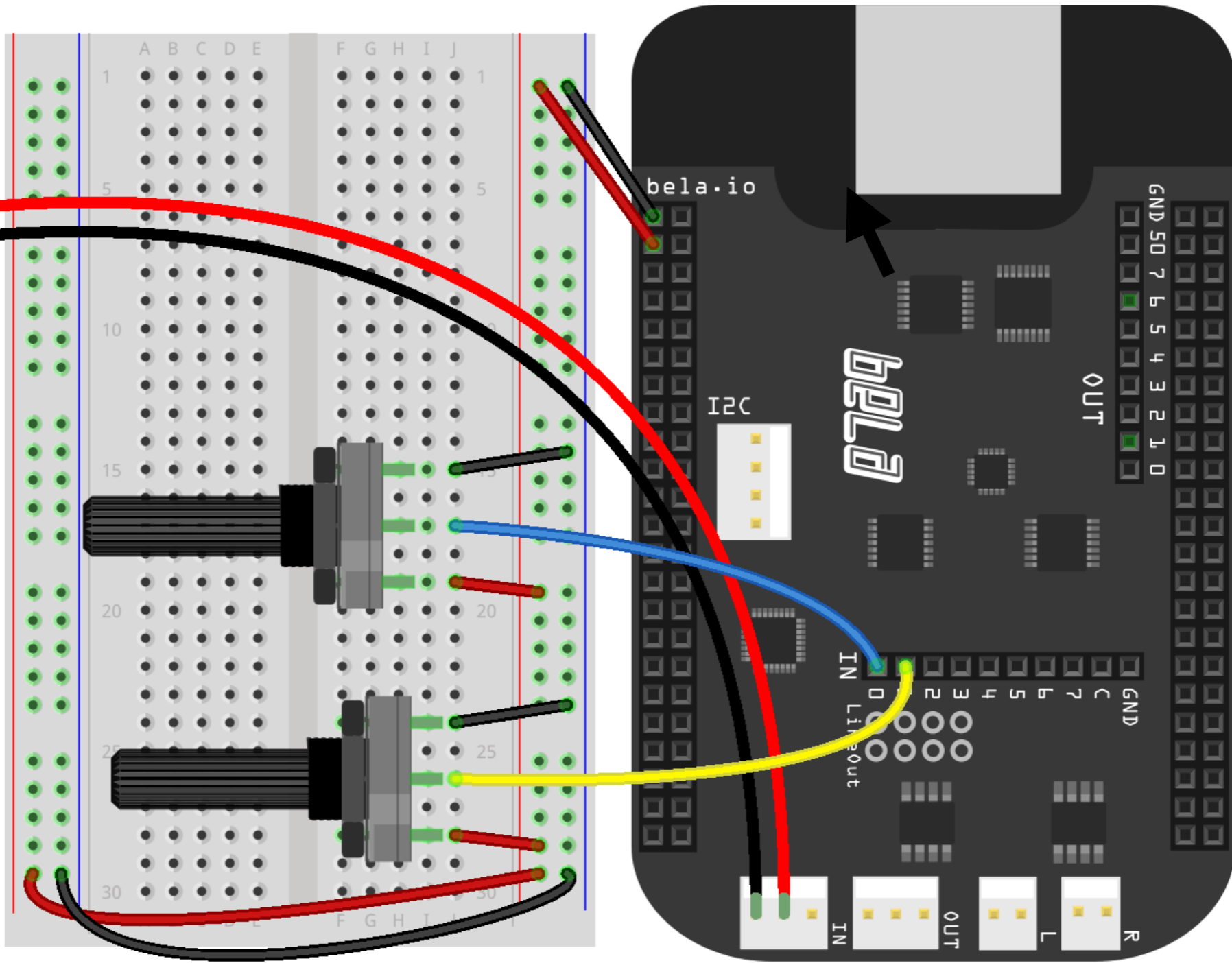


Karplus-Strong (string synthesis)

example: karplus-strong



Audio input:
piezo



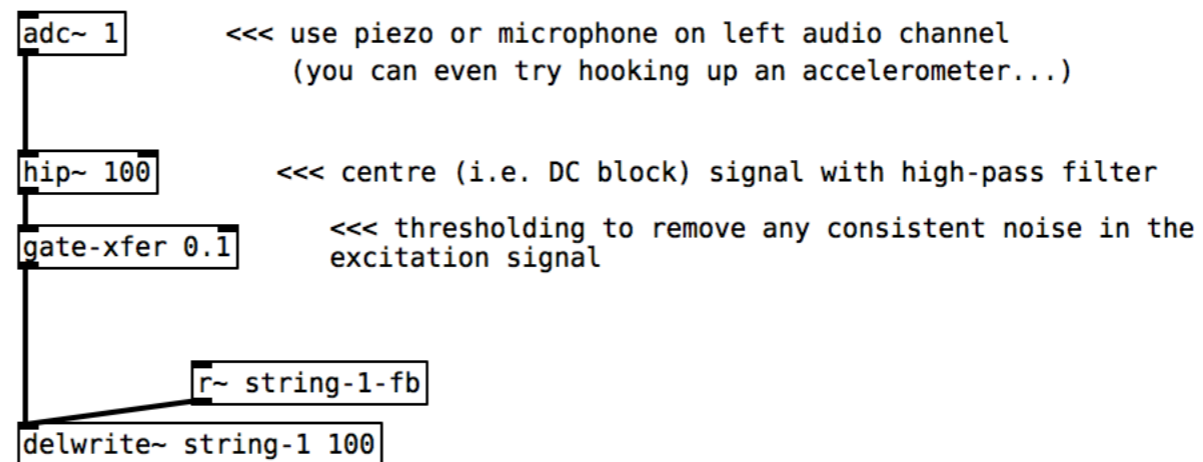
Karplus-Strong (string synthesis)

example: karplus-strong

Karplus Strong

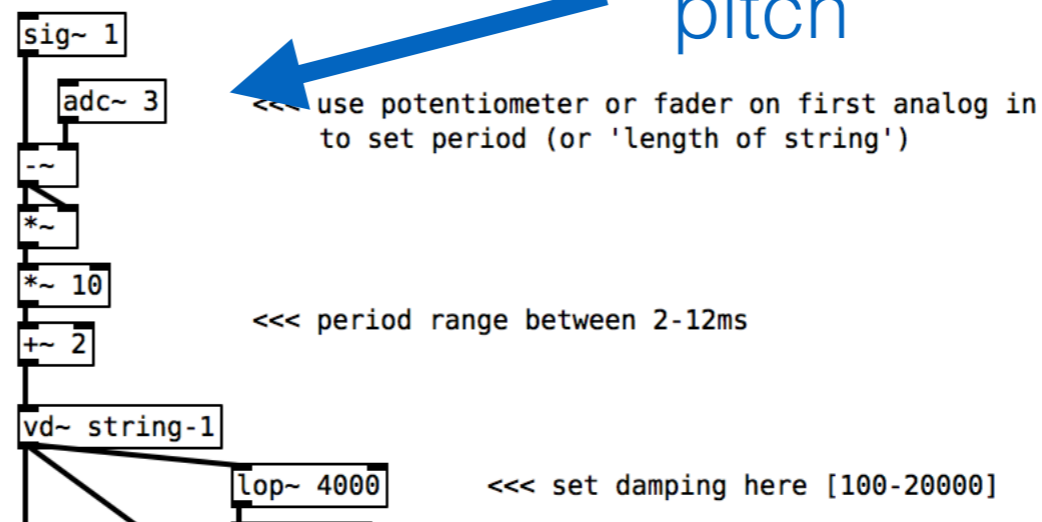
This is an example of simple 'Karplus Strong' synthesis which produces a sound resembling a plucked string by feeding the filtered output of a delay line back into itself. Here we use the left audio input as an excitation mechanism for the string. Try connecting a piezo to bela's audio input and tapping against it. The first analog input sets the length of the string.

EXCITATION INPUT:



Audio input:
piezo

DELAY PERIOD:



Pot 1:
pitch

Karplus-Strong (string synthesis)

example: karplus-strong

TASKS:

Add a second piezo disk to the right audio input [adc~ 2].

Duplicate the code to create a second delay line.

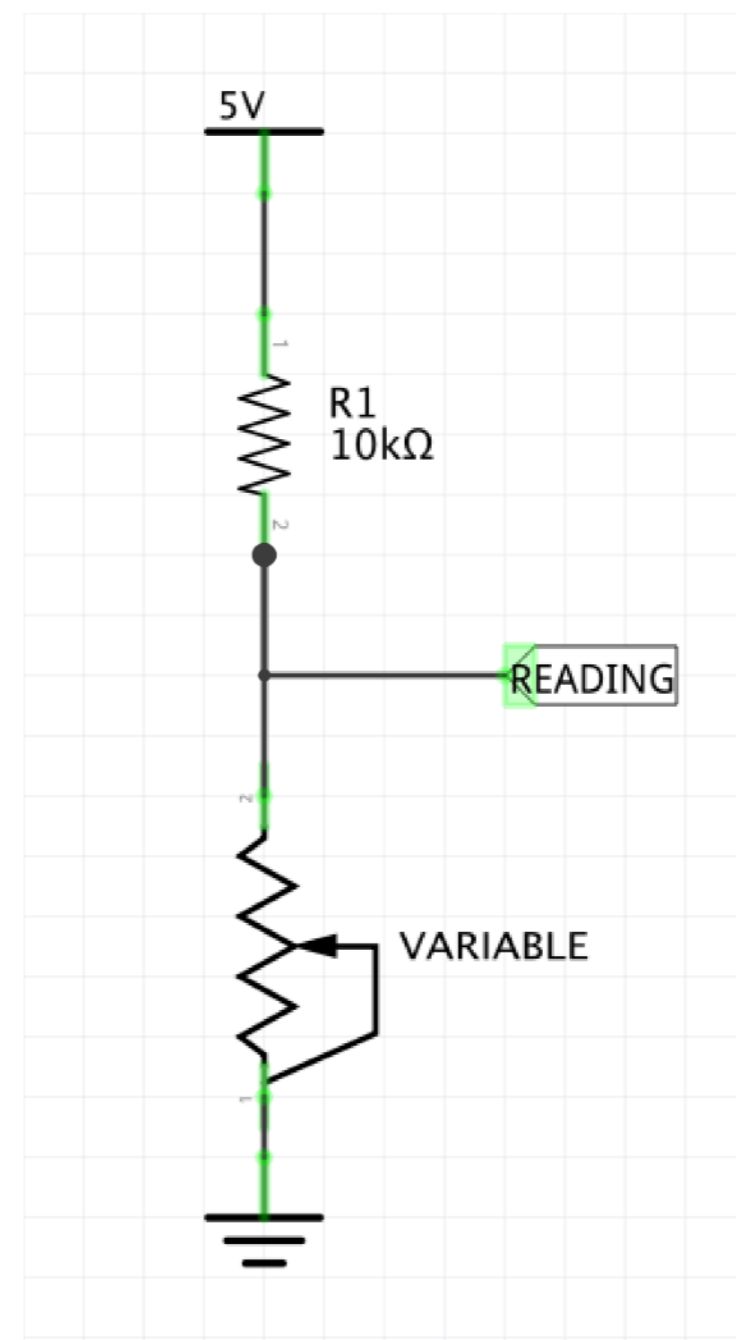
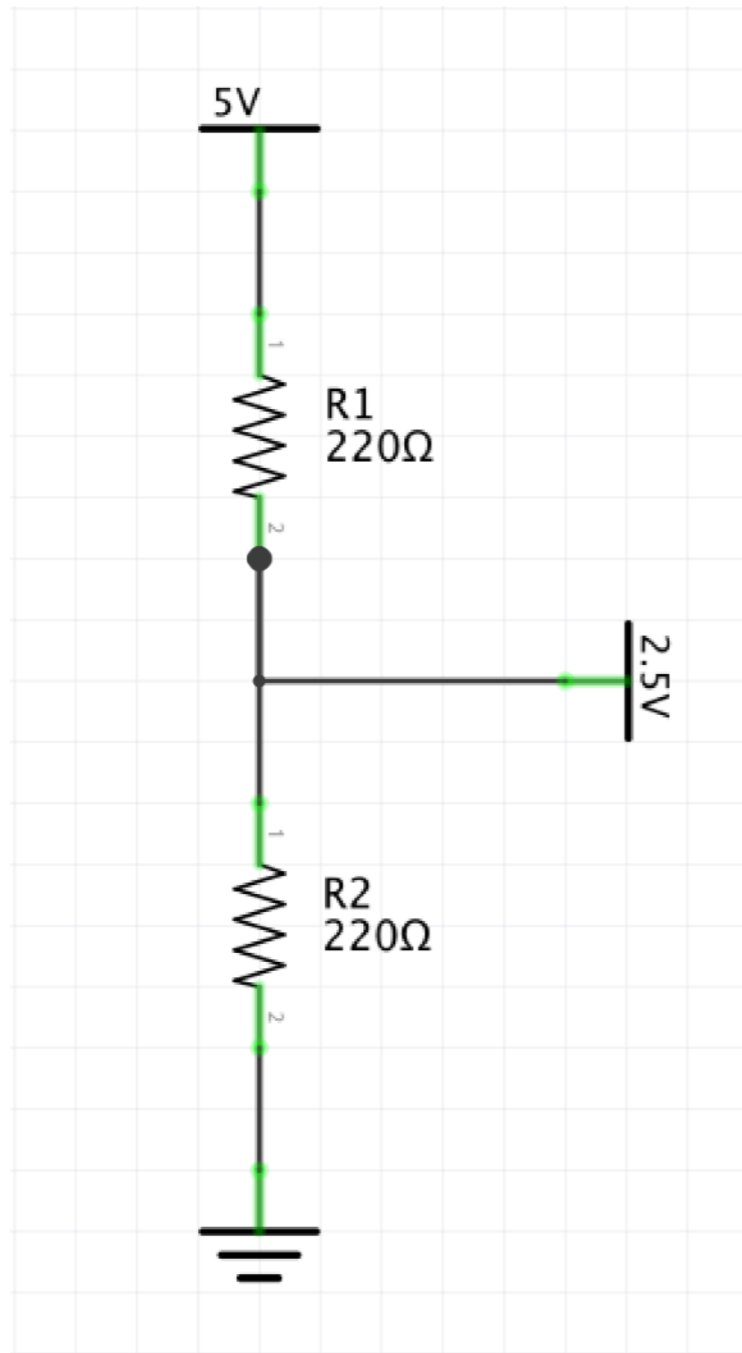
Remember to rename any reference to the first delay line.

Give the string a different tuning by changing the time of the delay.

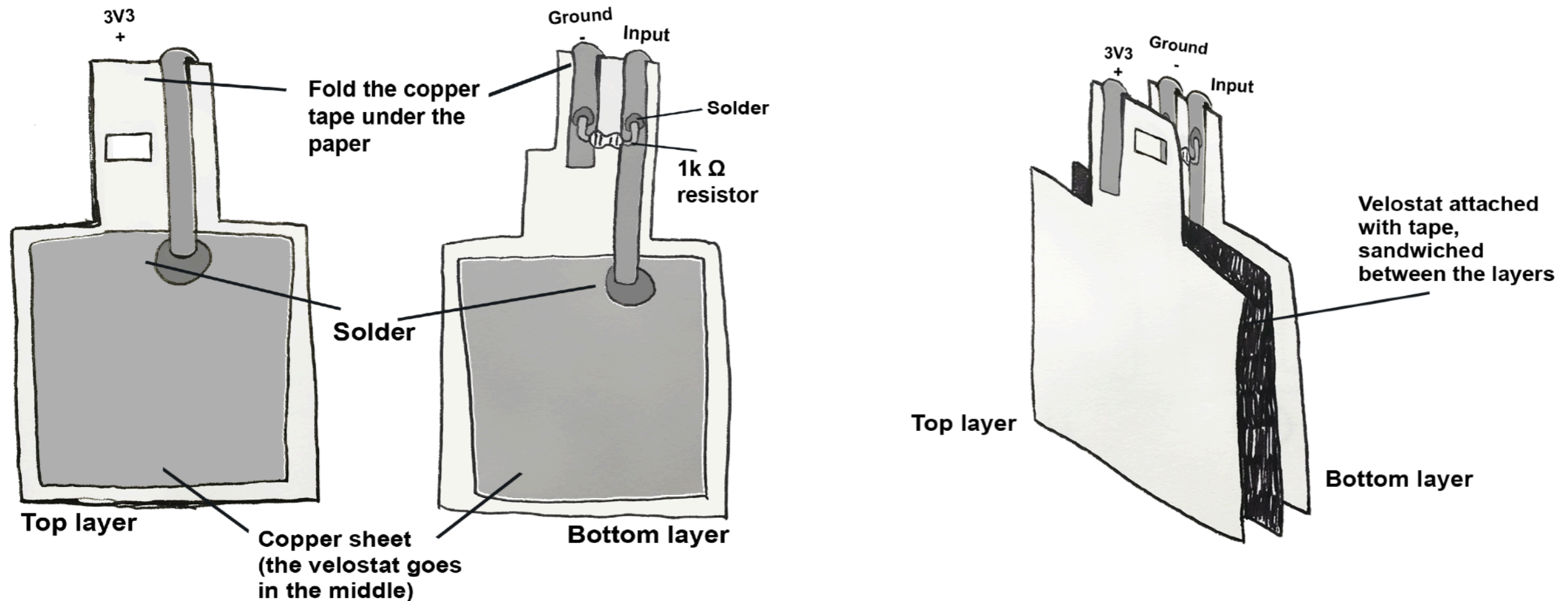
For Tomorrow!

**Bring in some interesting
conductive objects**

Voltage Divider Circuits



Making pressure sensors



Go to <https://bit.ly/2FJGfe2>

Making pressure sensors

TASKS:

Change sample

Treat the sensor signal (smooth it and remap)

Use thresholding to trigger the sample

Start sample from the beginning each trigger

Making pressure sensors

E-textile resources:

embelated.org

<https://www.kobakant.at/DIY/?cat=26>

[Handcrafting Sensors](#)