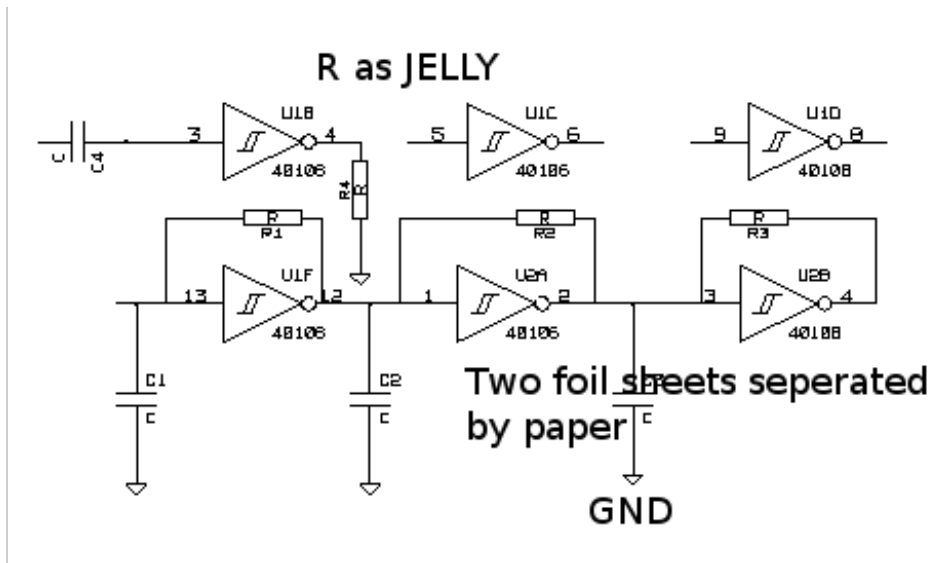
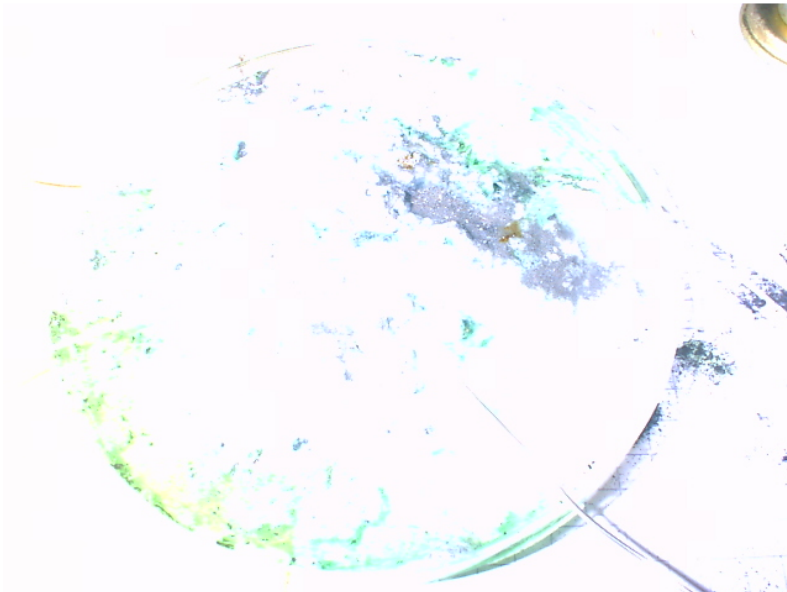


Custom noise kit:

Schematic:



Parts placement:

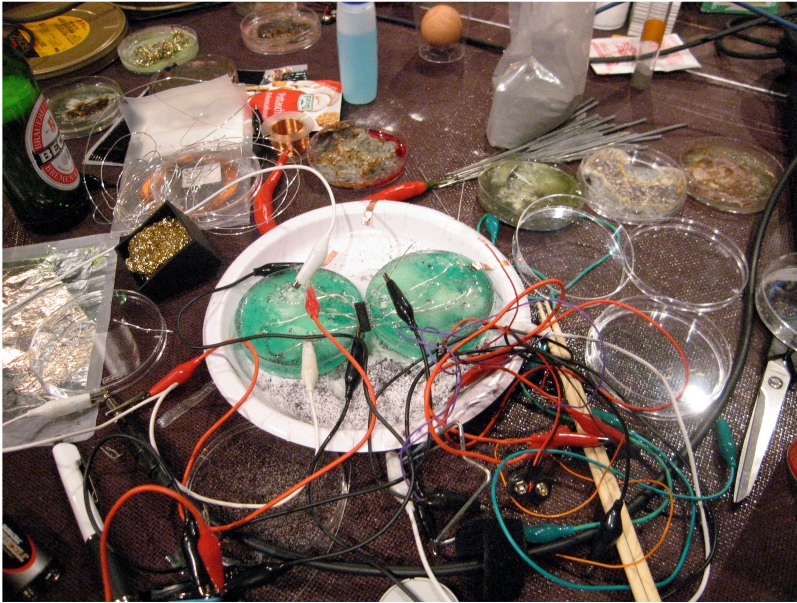


Jelly
Salt
Aluminium foil
Petri dishes
Crocodile clips

IC:

5x 40106

Image:



Description:

The circuit interfaces the 40106 Hex (6x) inverting Schmitt trigger which is commonly used to square up lazy digital signals, pulling a noisy signal in the so-called forbidden zone towards one and zero. Feeding these Schmitt trigger back on themselves through simple RC (resistor-capacitor) timing circuits produces audible oscillations. In this case, we use jelly as a variable resistor, plates of aluminium foil separated by tracing paper as a capacitor and interface varying trigger/neuron assemblages with crocodile clips.

Construction notes:

Solder longer wires on all pins of the 40106. It is important to keep separate pin 7 (GND) and pin 14 (POWER +9v) from jelly. Construct capacitors with 10cm+ squares of foil taped to a tracing paper dielectric. Make sure that both sides of the foil do not touch. Mix jelly and place in petri dishes, add some salt and place selected wires in jelly. Connect networks and audio output with crocodile clips. The Schmitt triggers are between pins 1 and 2, 3 and 4, 5 and 6, 13 and 12, 11 and 10, 9 and 8 as described in the diagram. Connect capacitors with one side to Schmitt trigger and other to GND as in diagram. Attach power and GND to networks.

References:

<http://www.1010.co.uk/workshop.html>