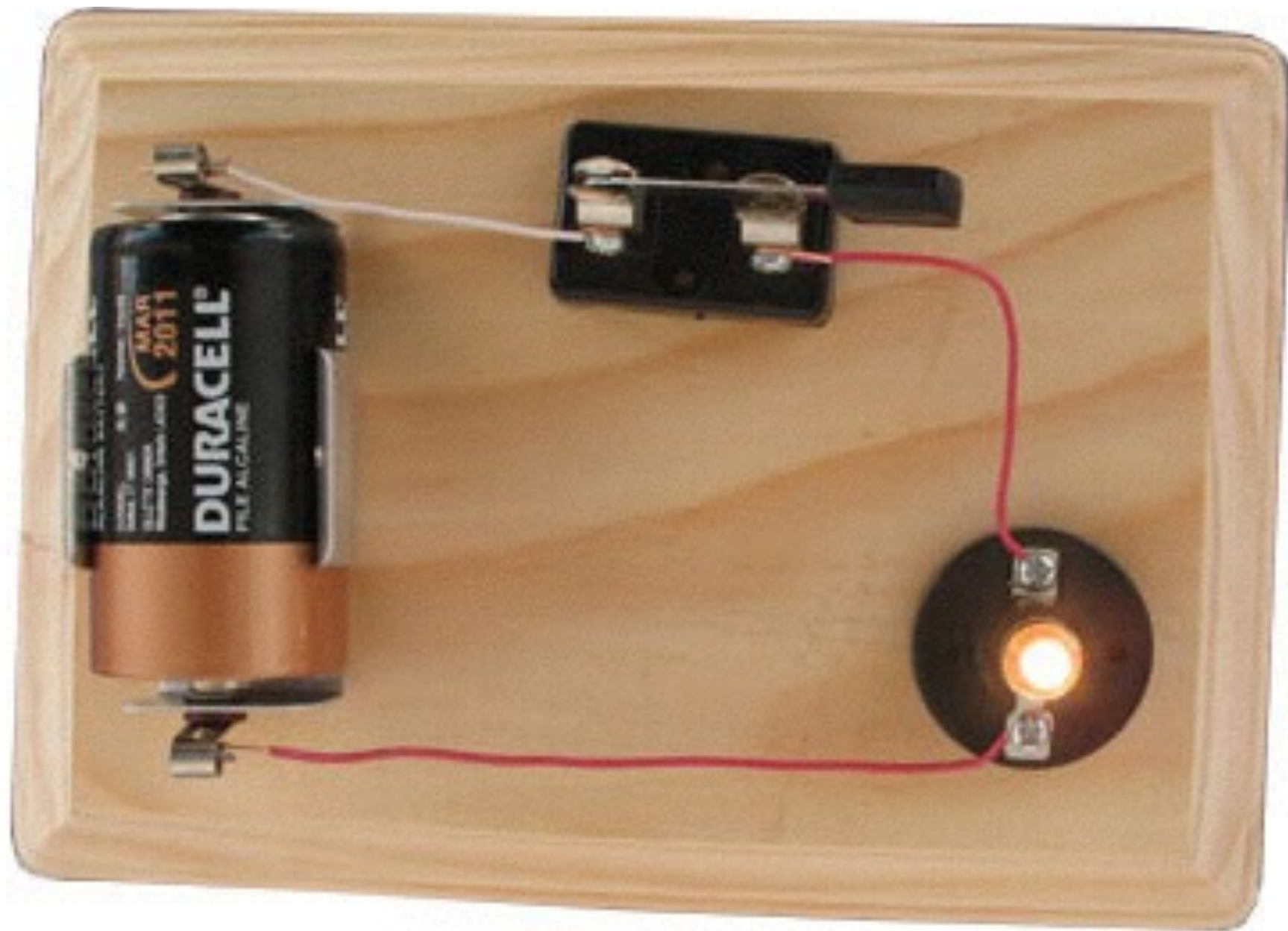


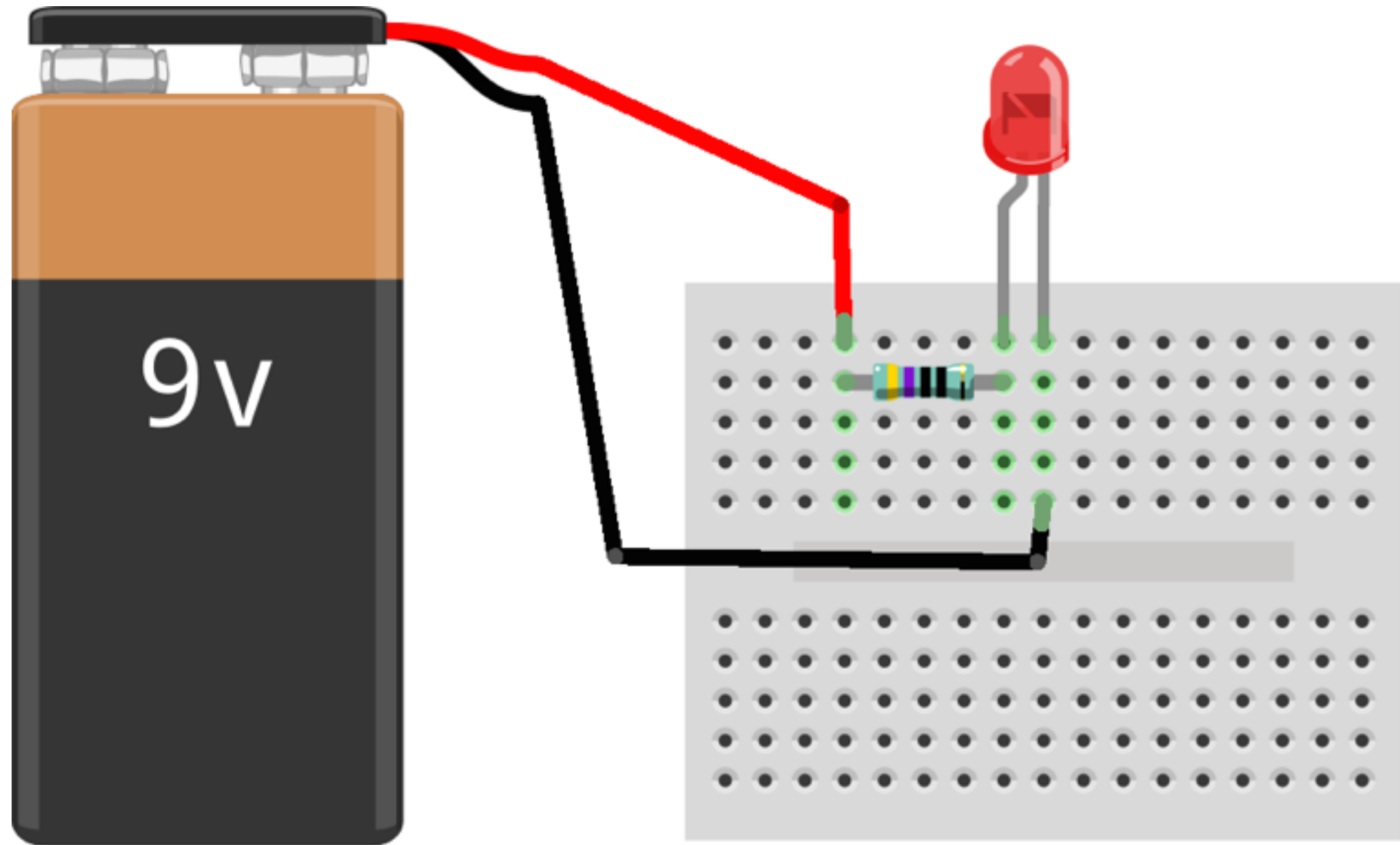
DIY Synth Workshop

Charles Martin

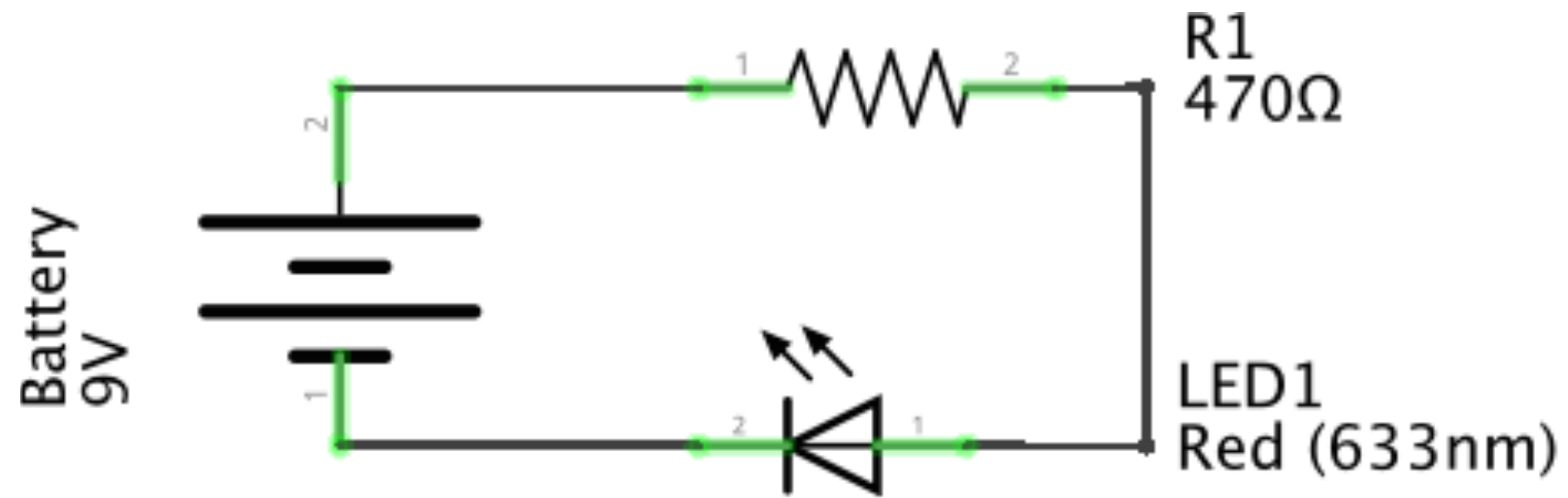


Circuits

always have a positive and
ground (negative) connection



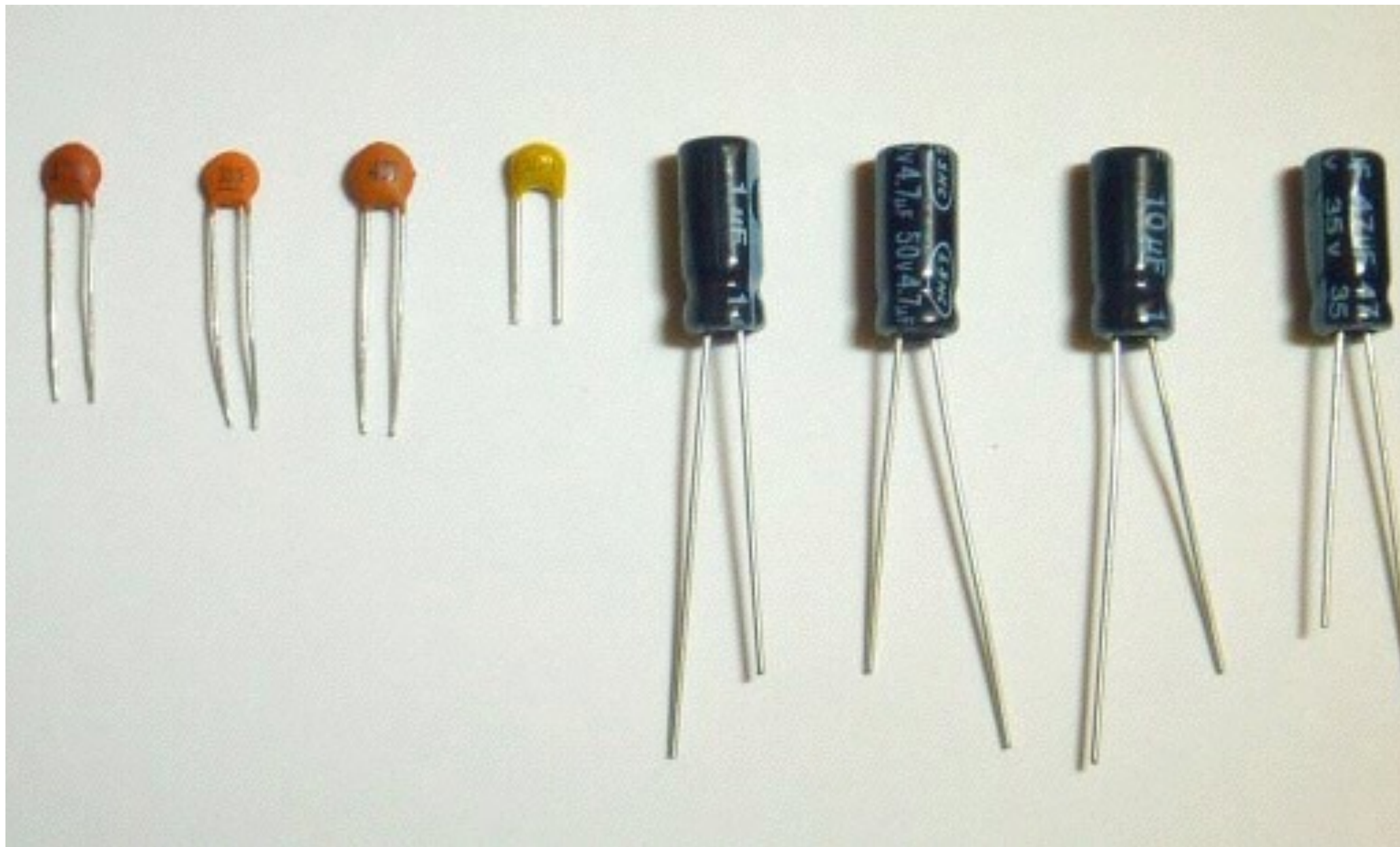
a basic circuit



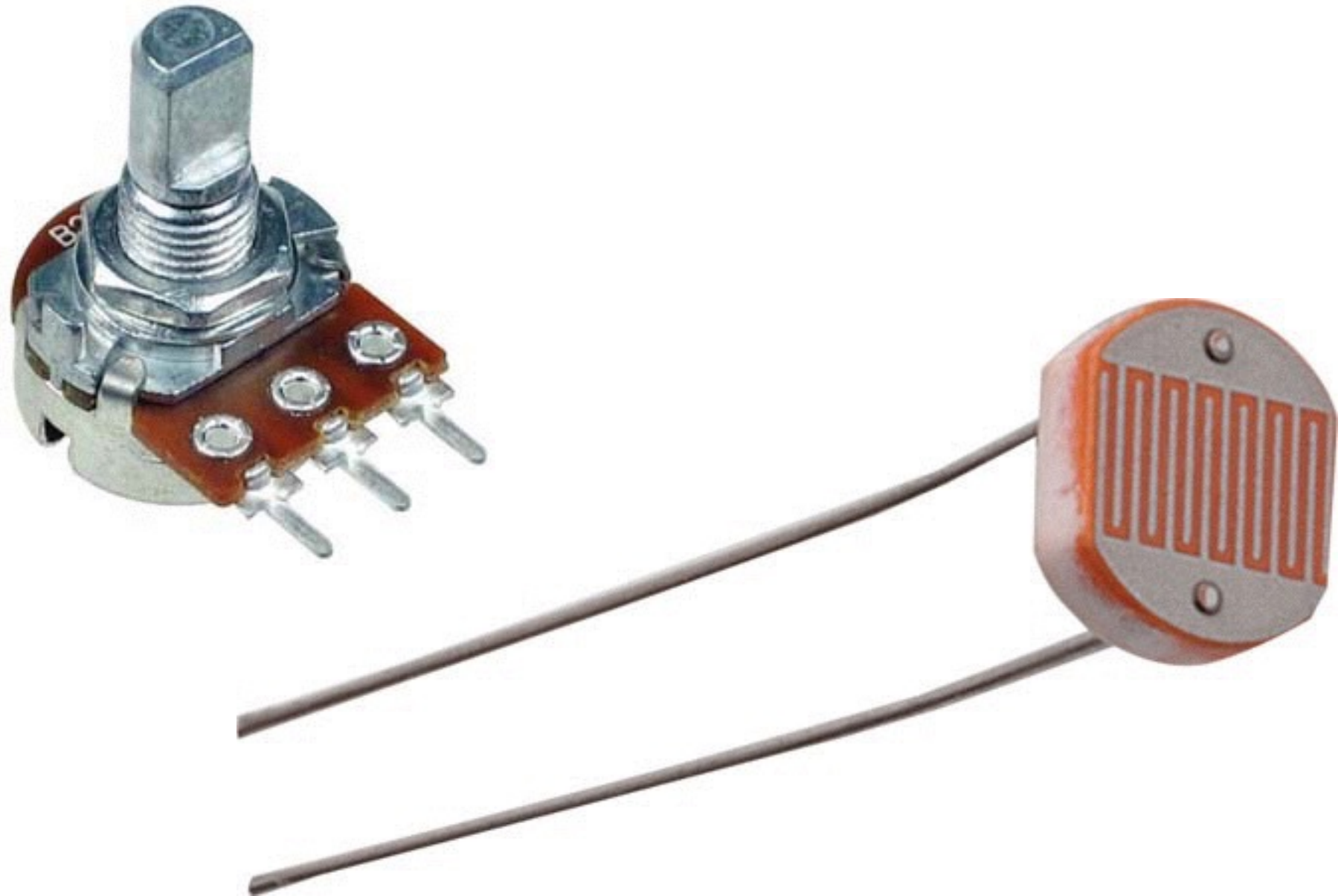
a basic circuit



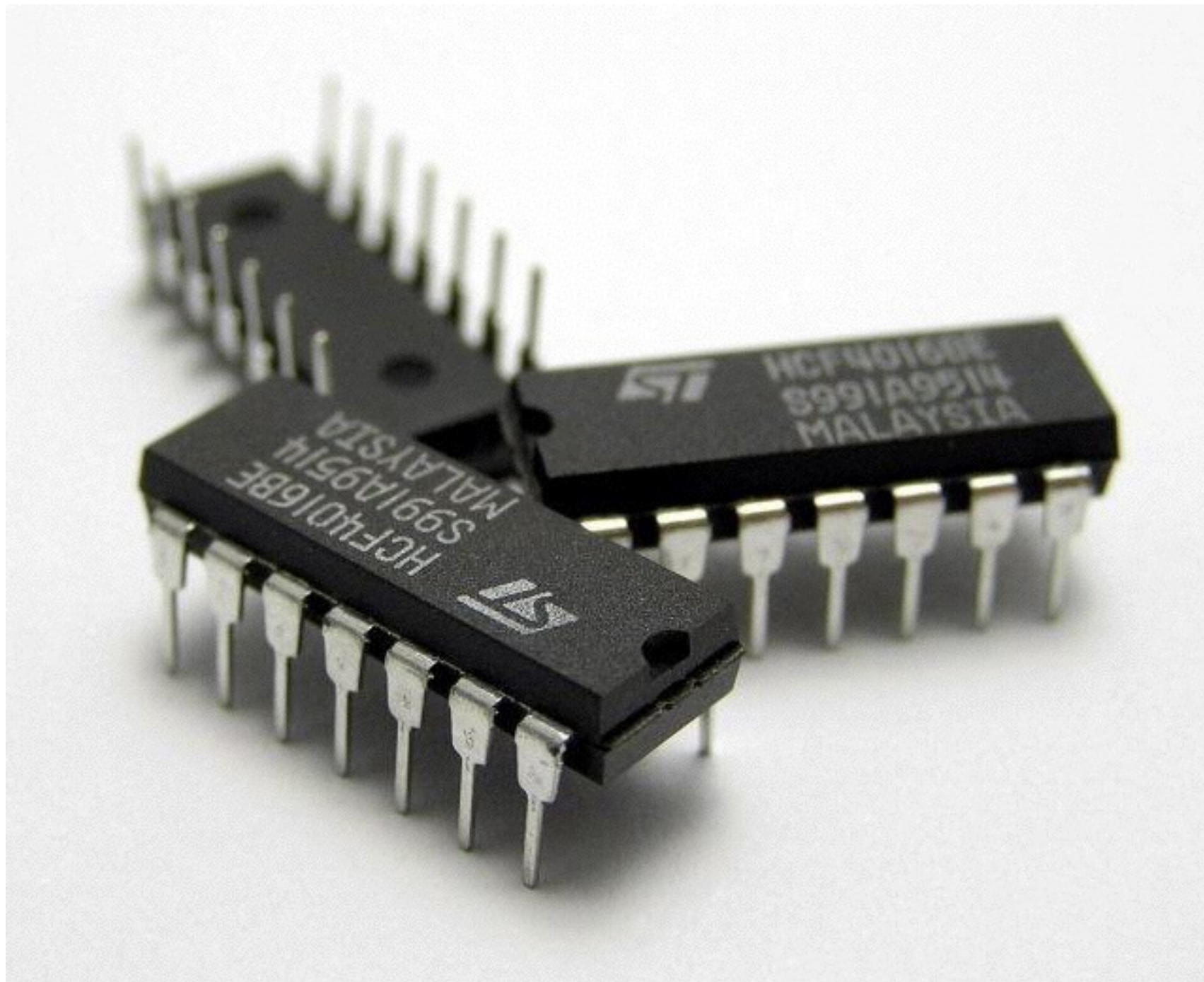
resistors



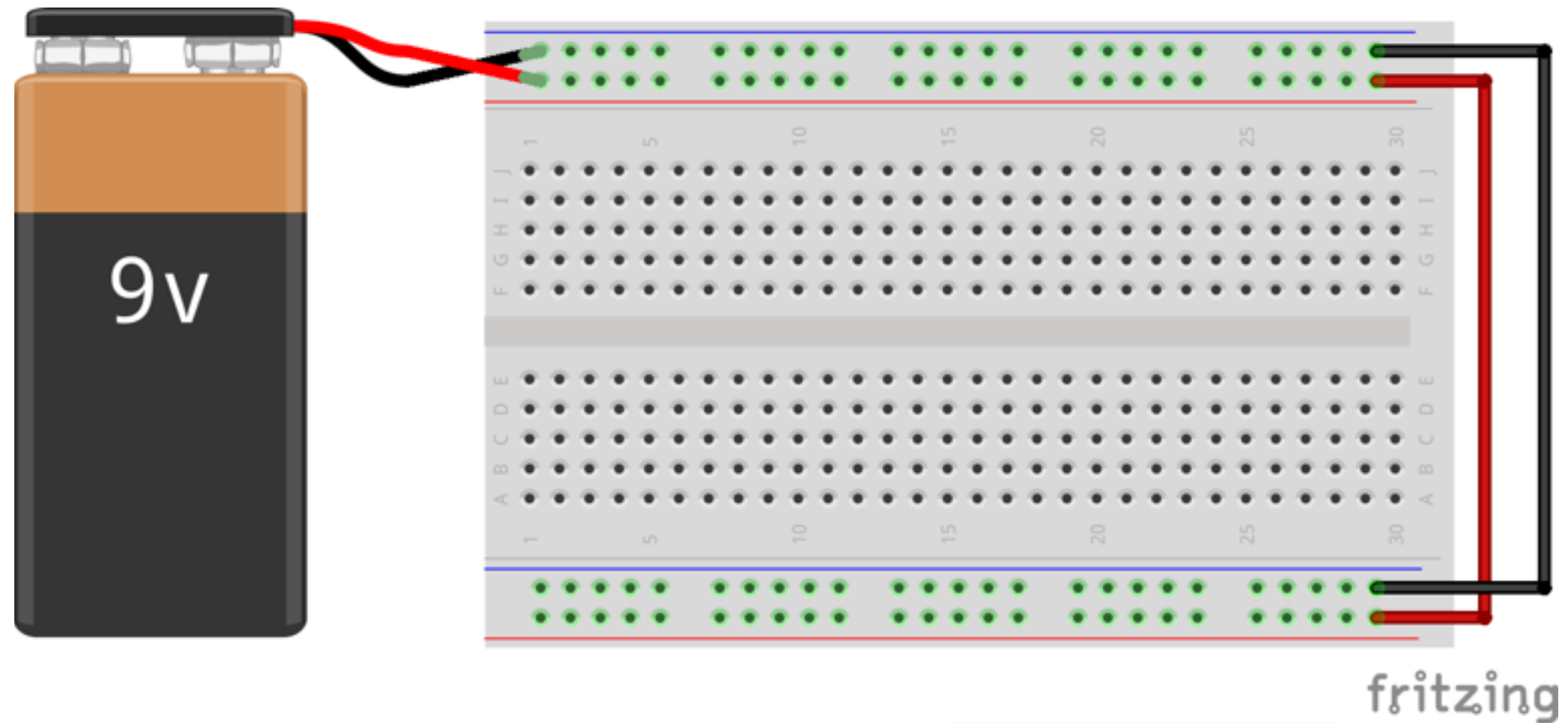
→ capacitors



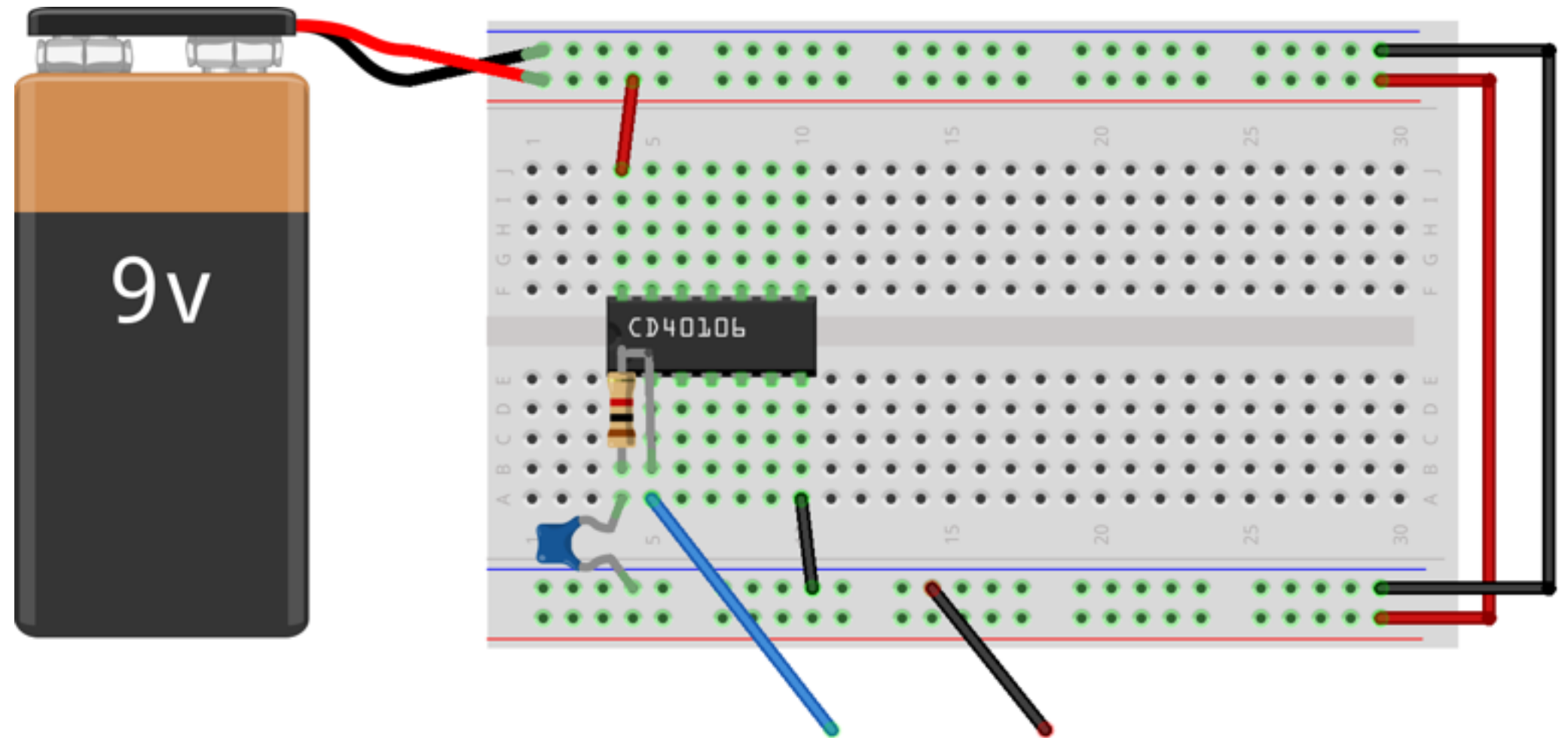
potentiometers / LDRs



ICs

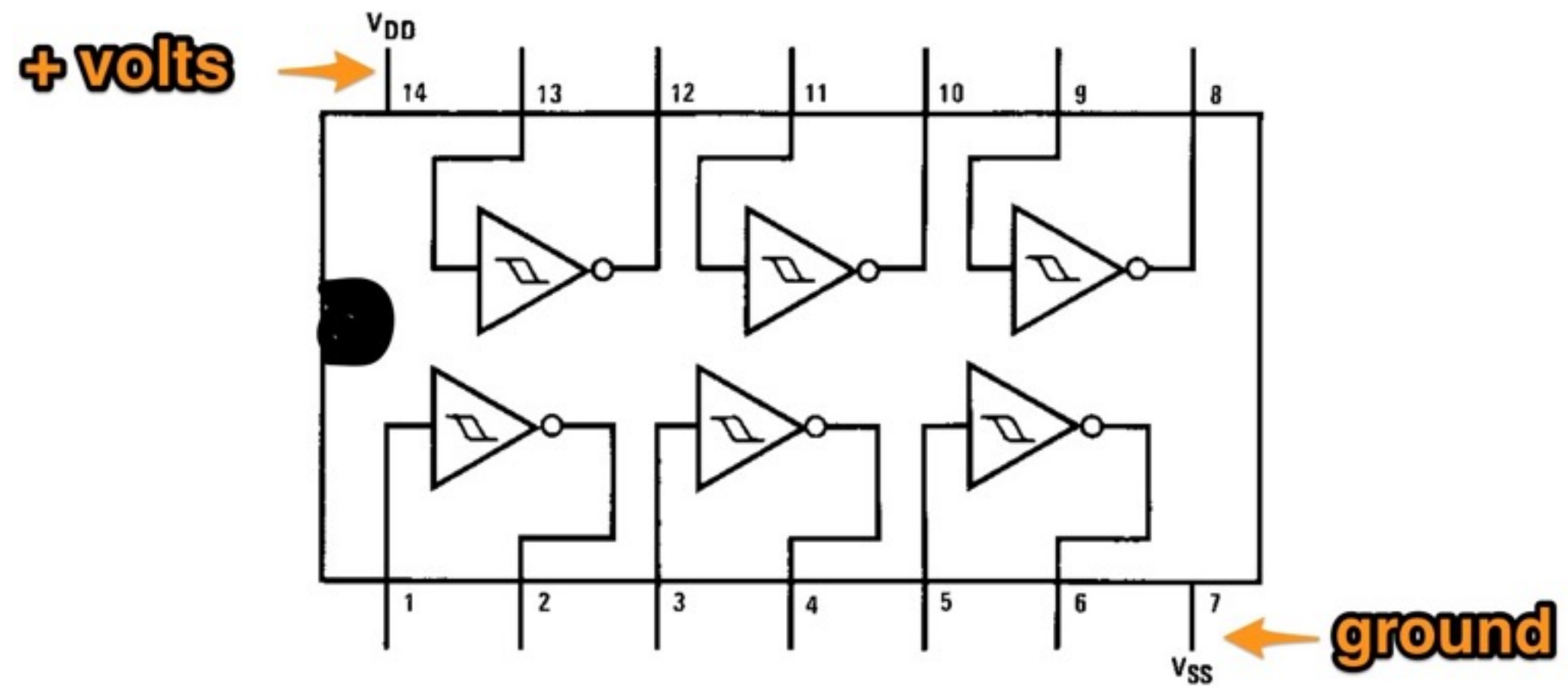


0. setting up the breadboard

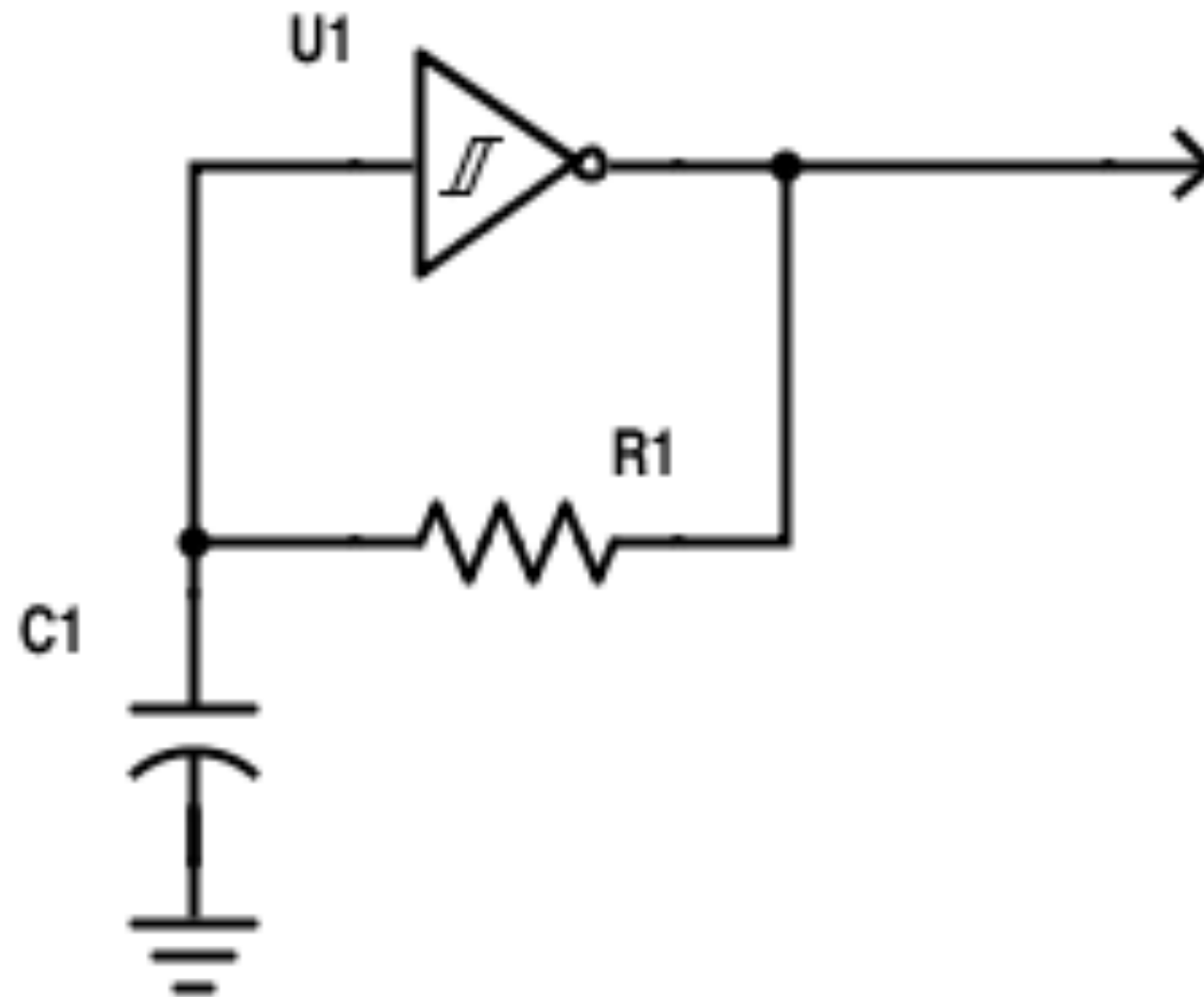


fritzing

1. making one oscillator

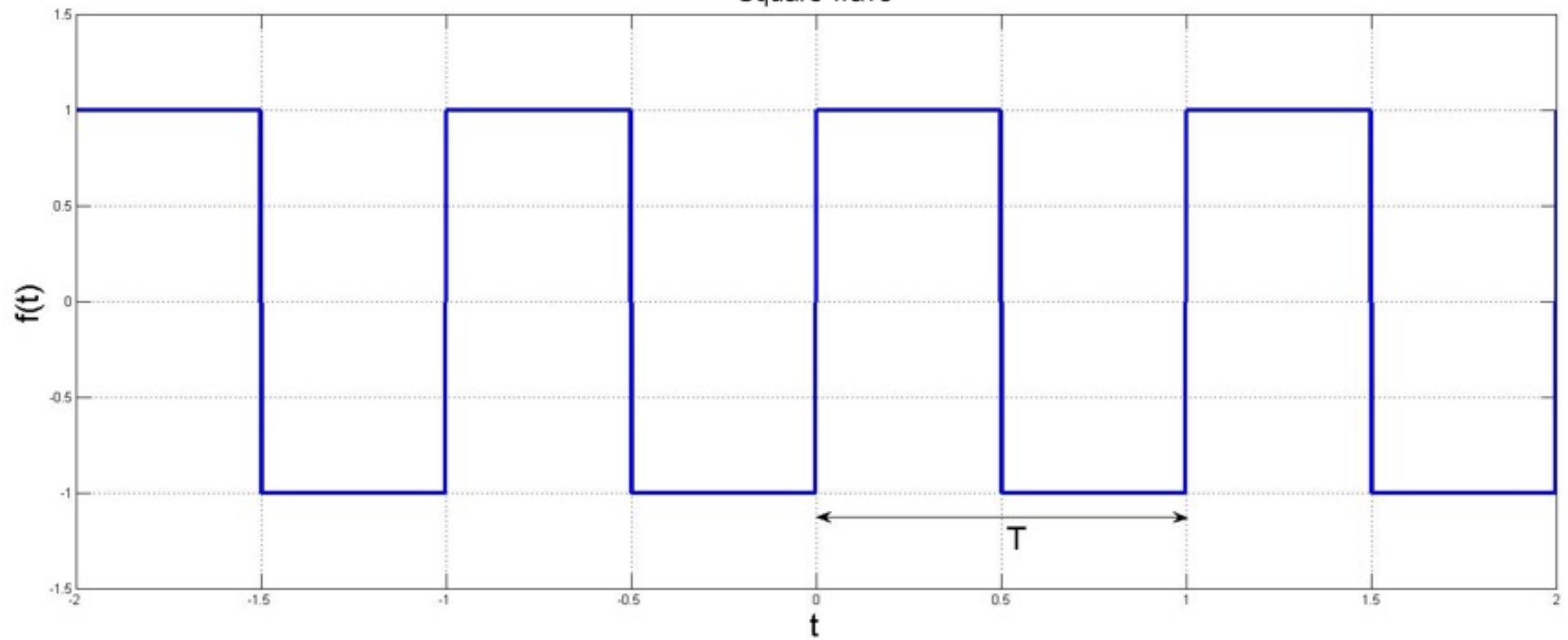


CD40106

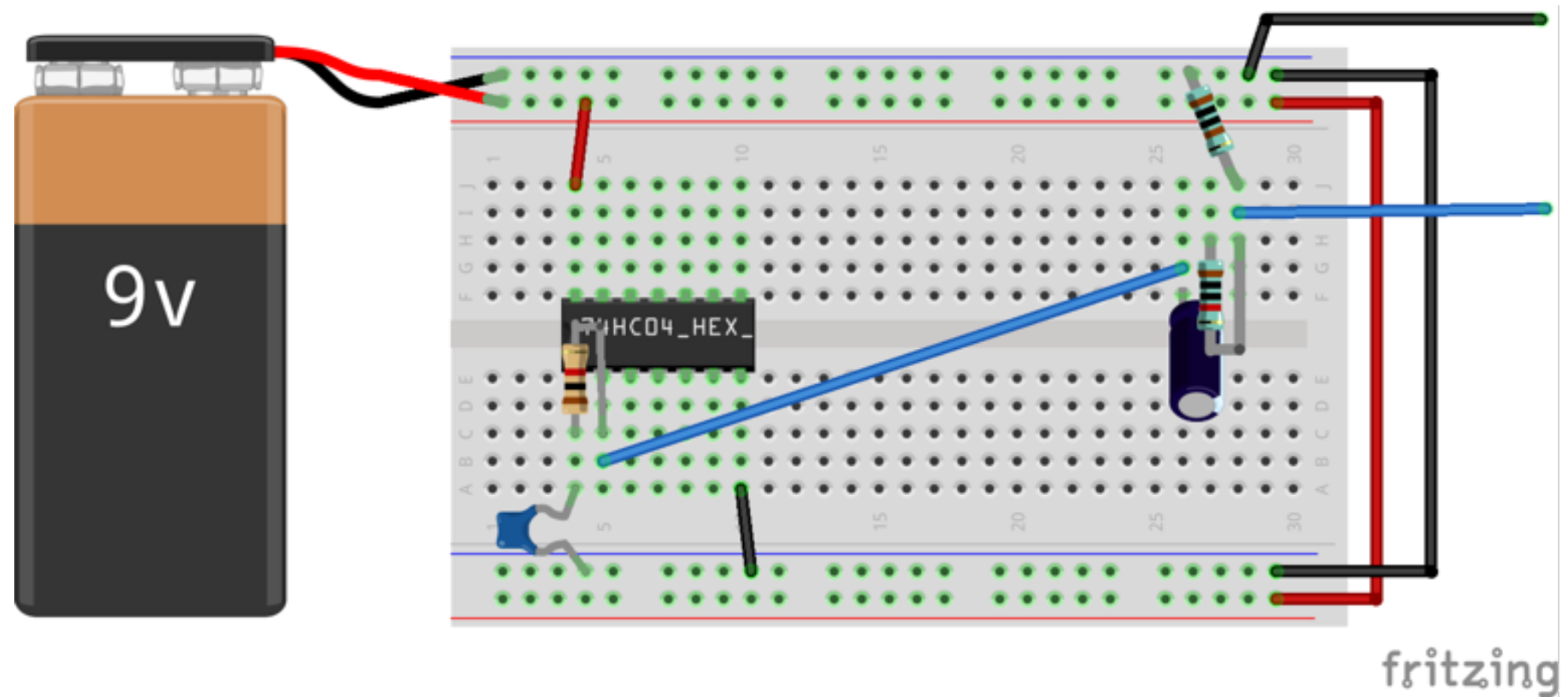


making one oscillator (schematic)

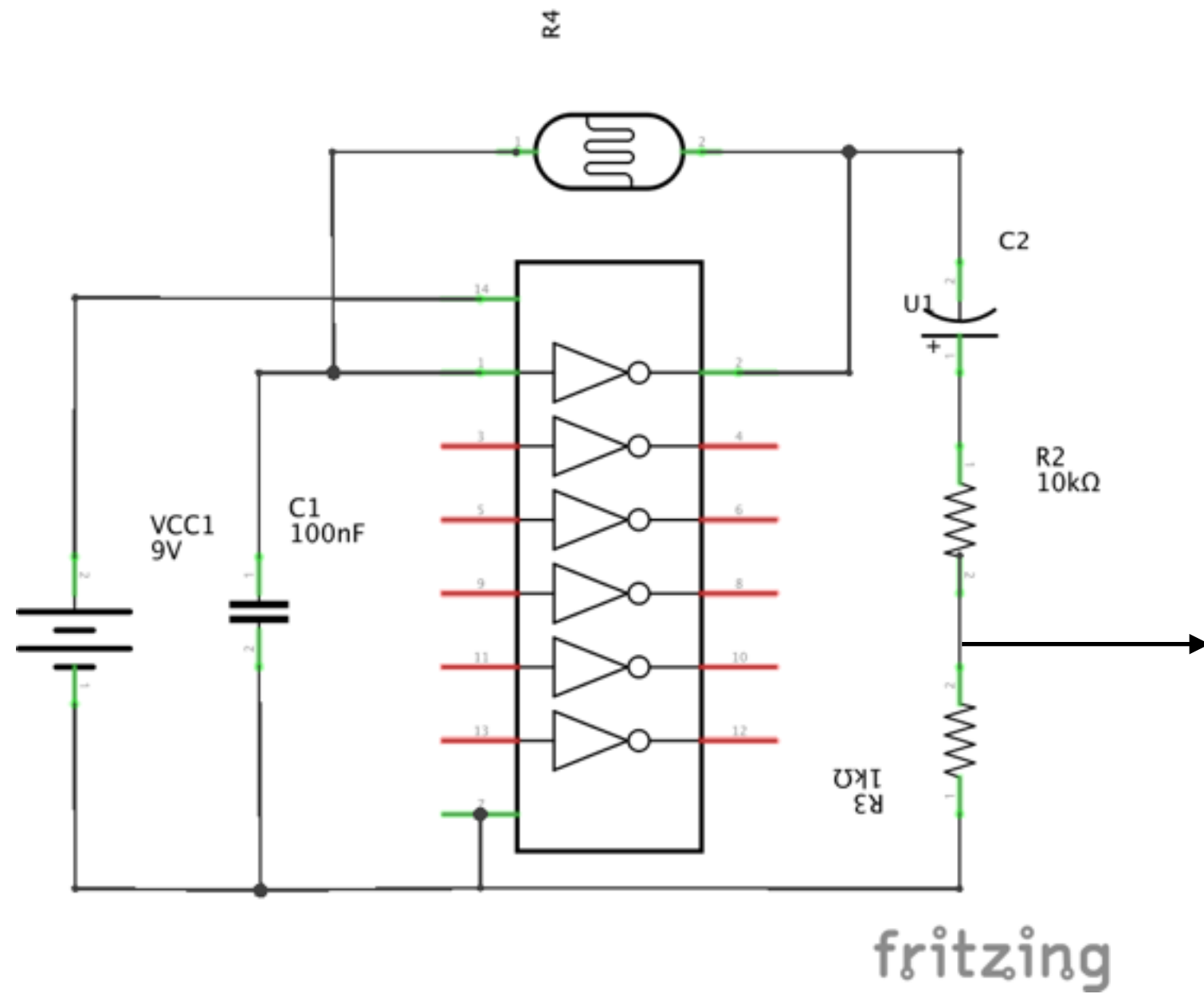
Square wave



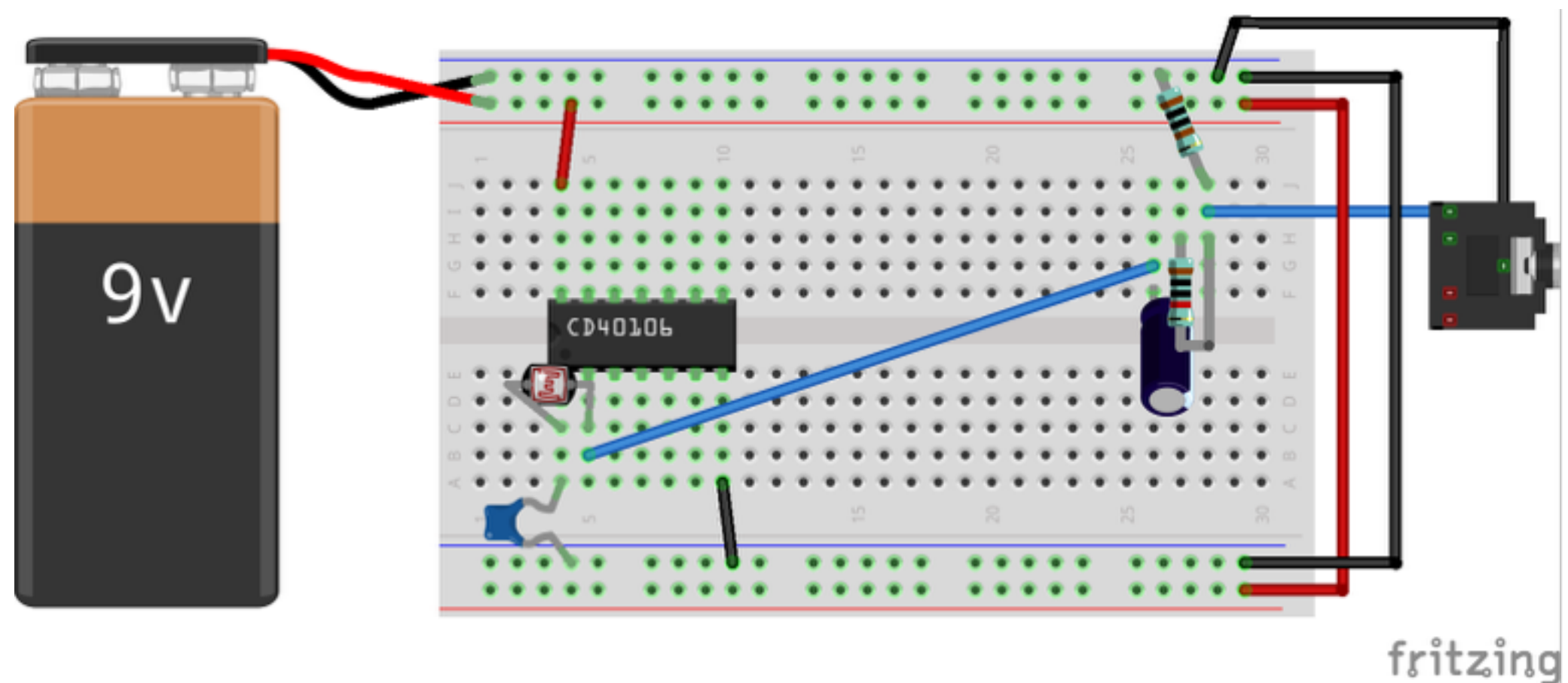
square wave



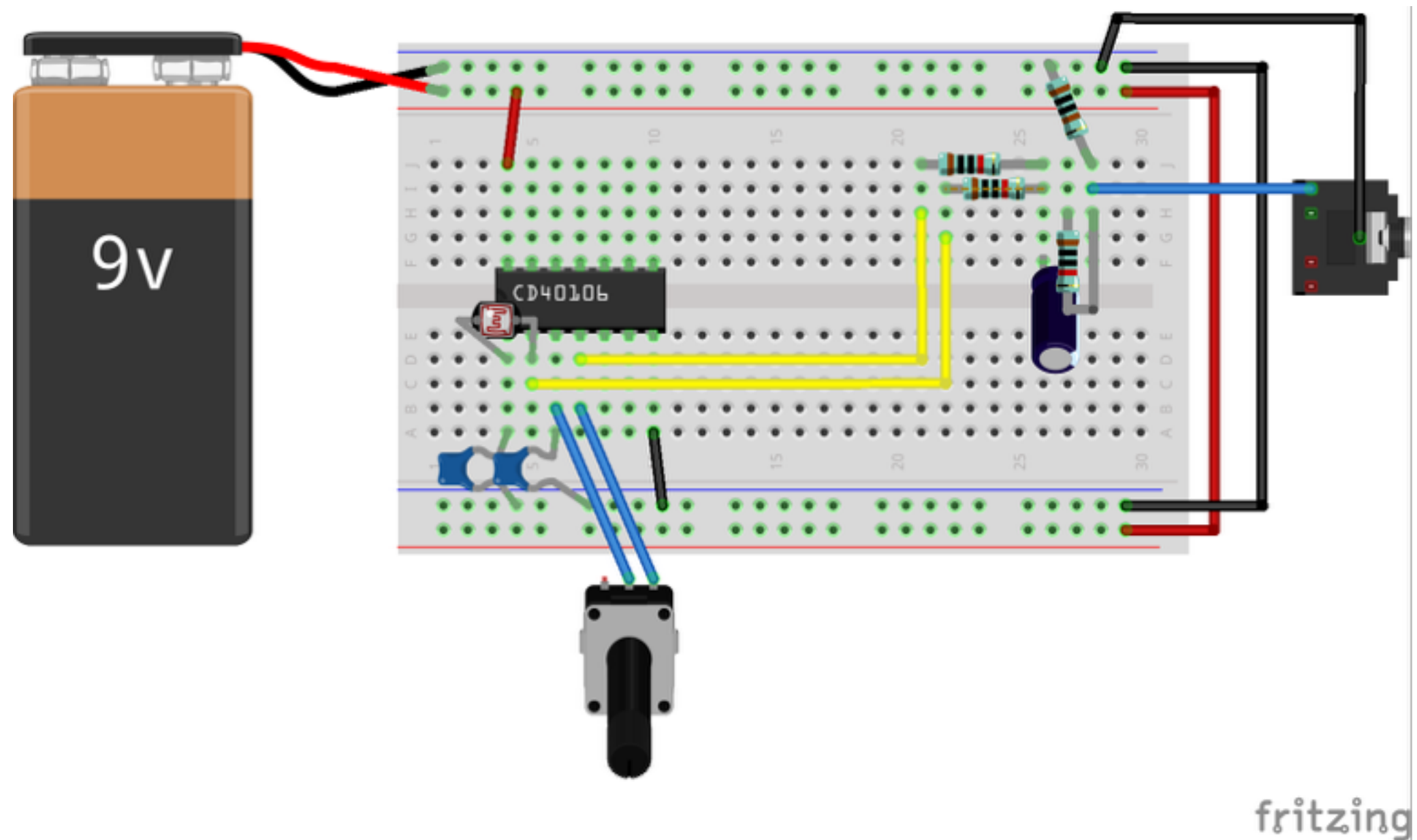
2. Controlling Volume



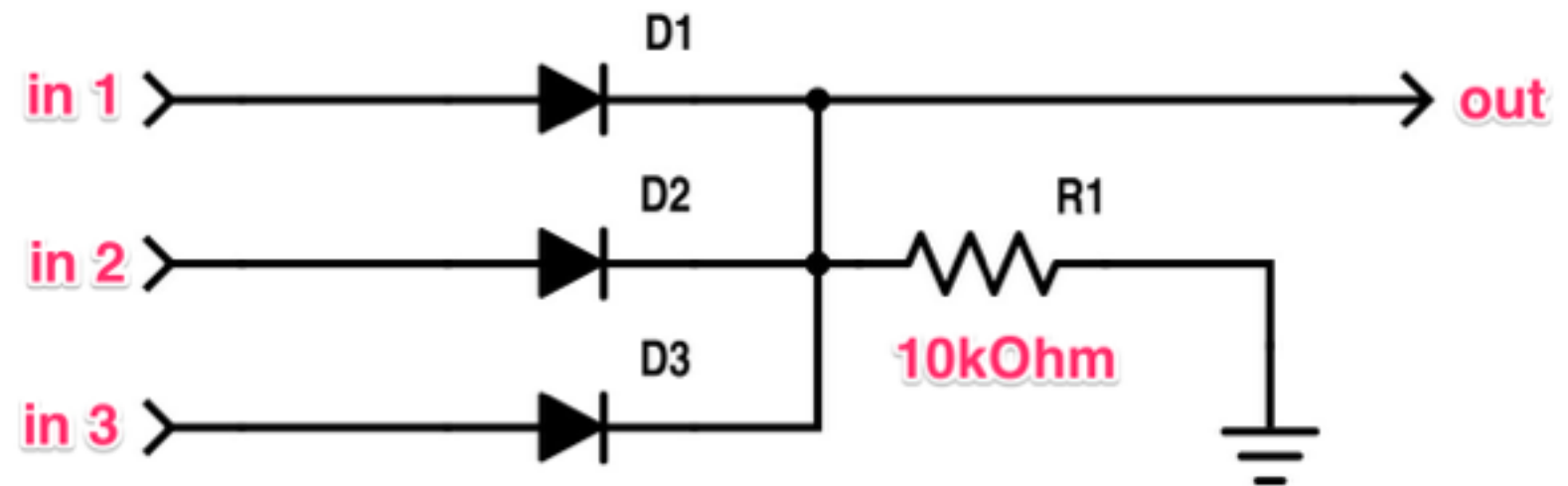
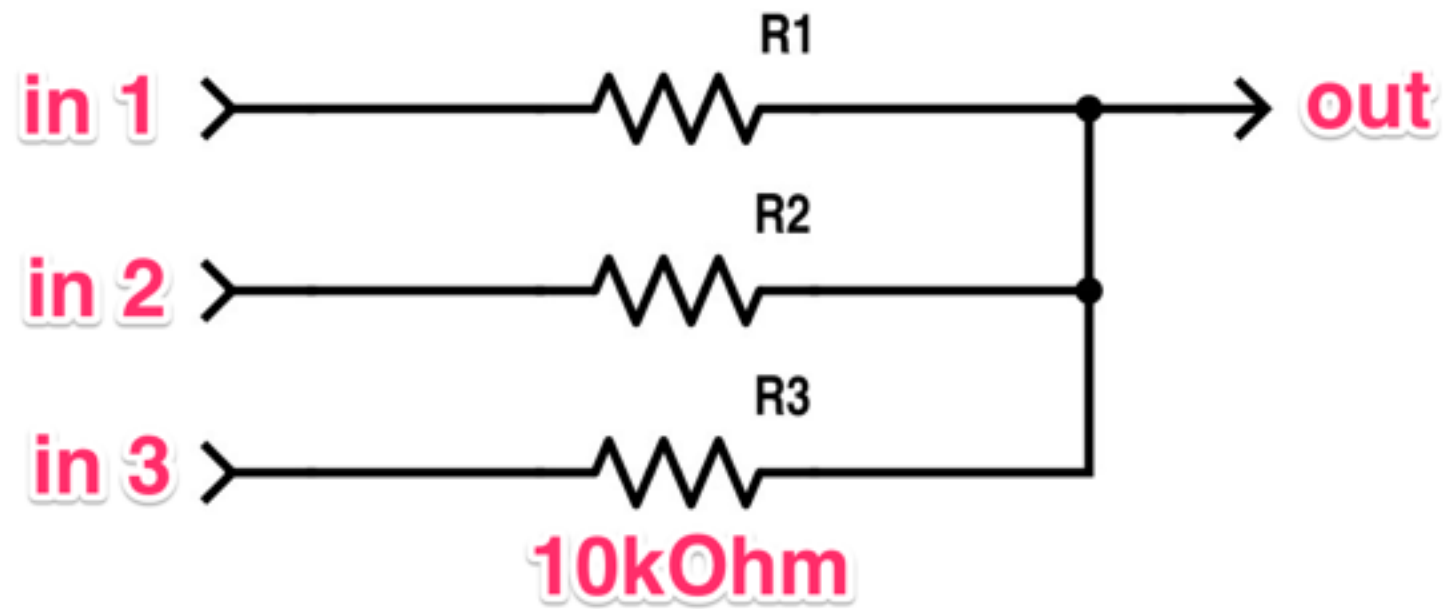
Controlling Volume Schematic



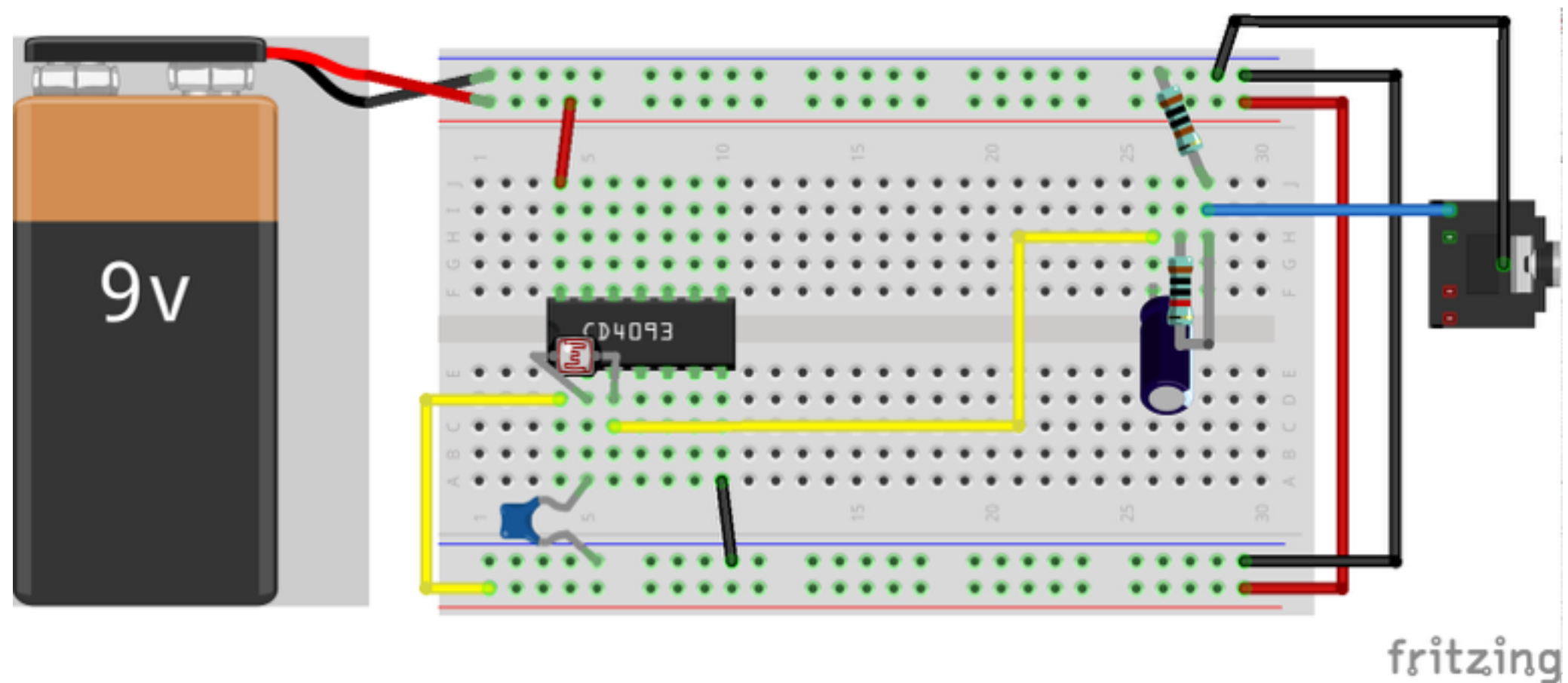
3. Controlling Pitch



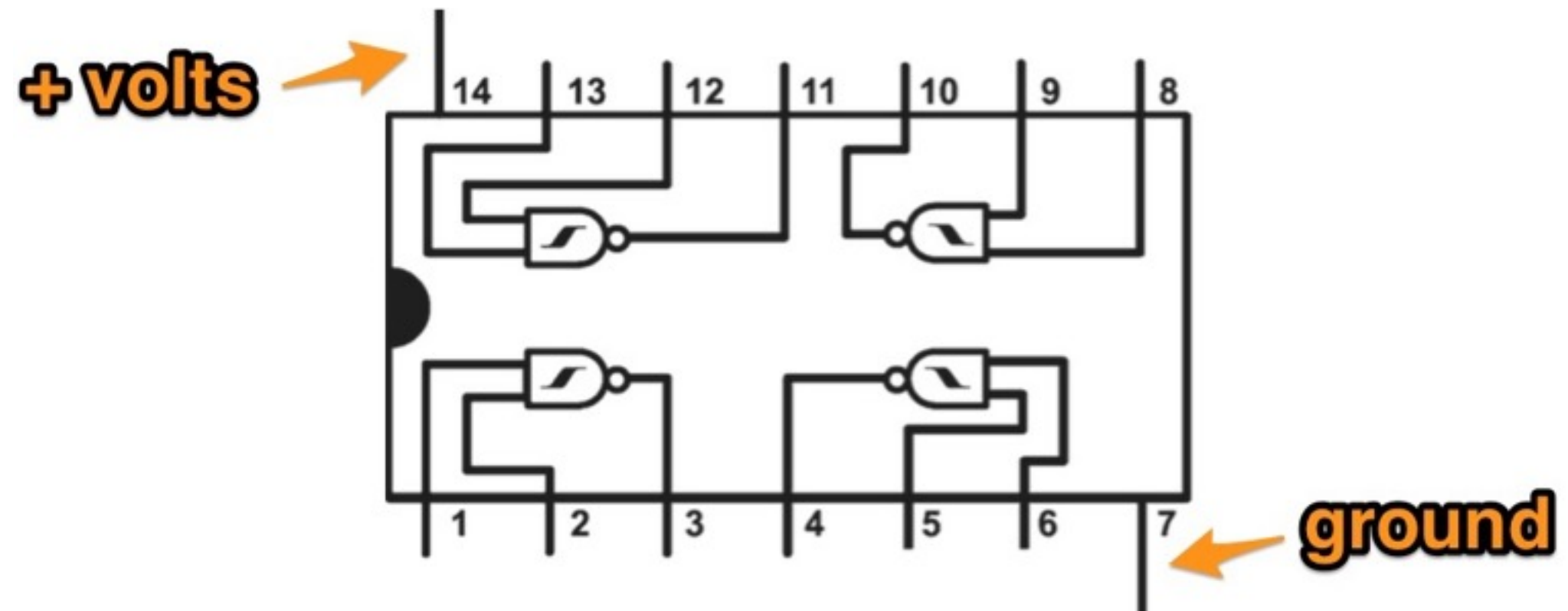
4. Mixing Oscillators



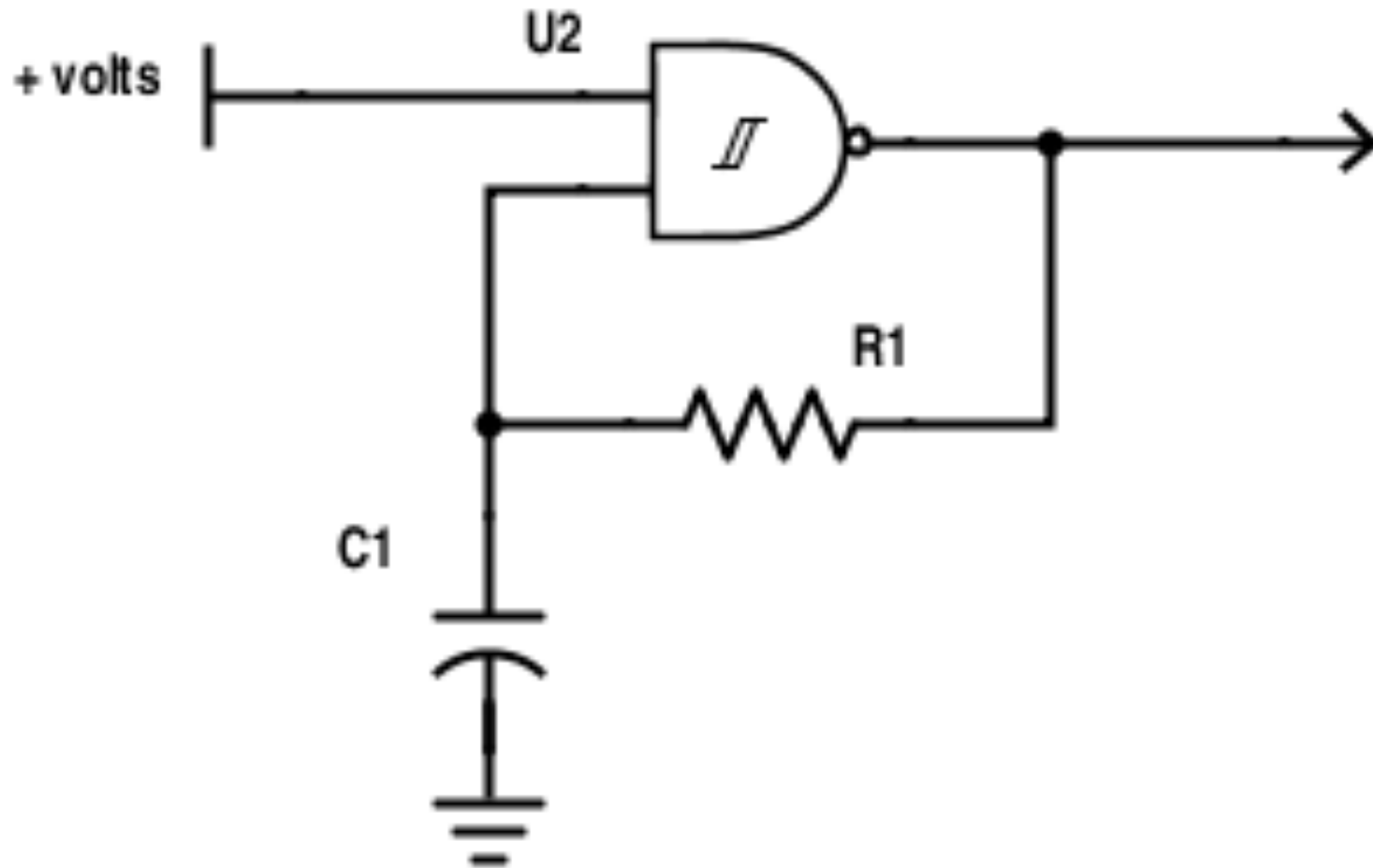
mixers



5. NAND Synth



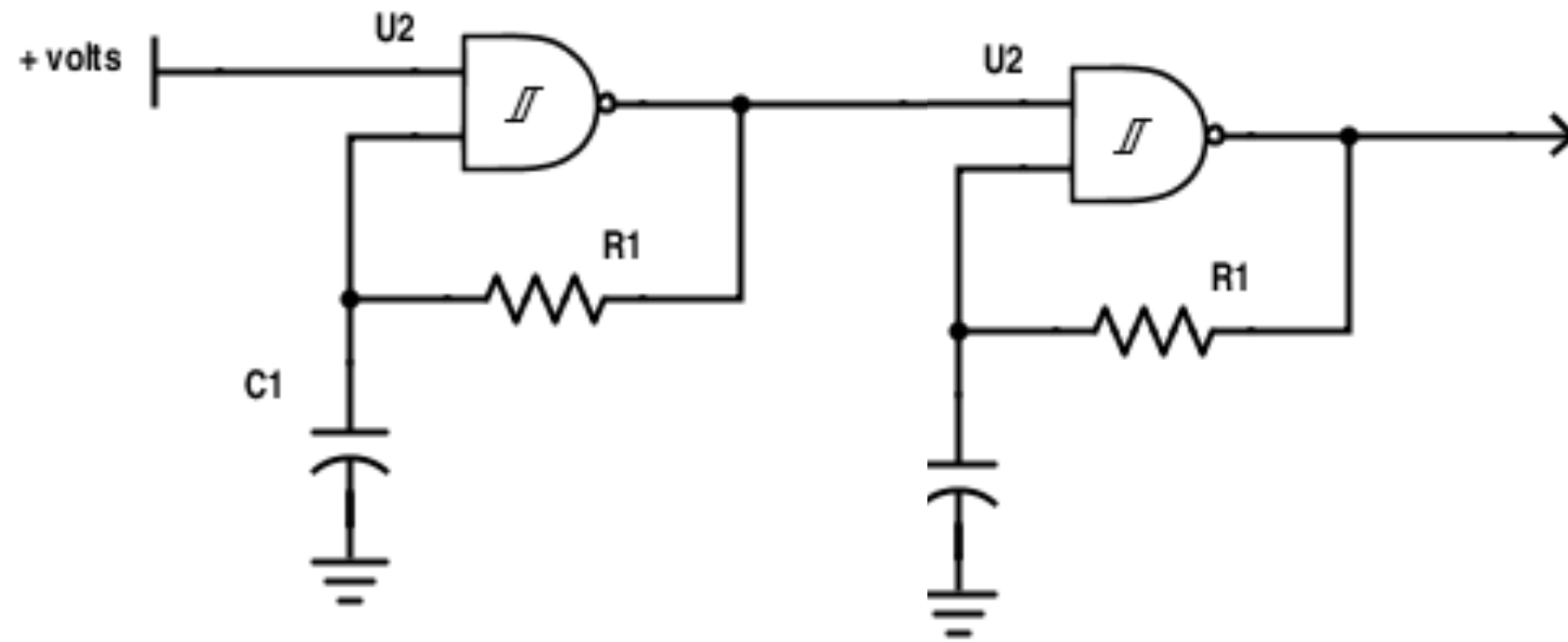
CD4093



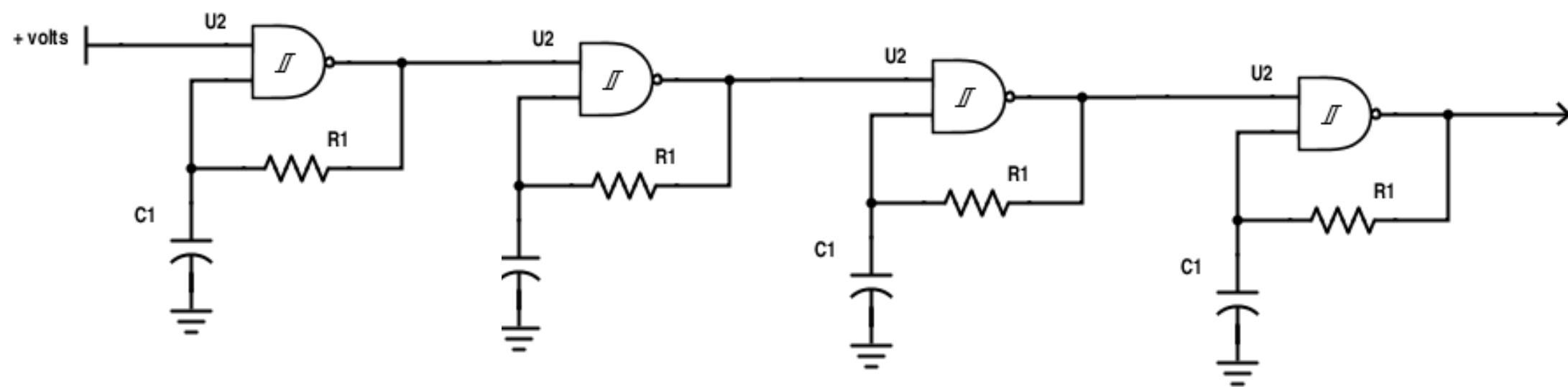
NAND oscillator



6. Oscillating Oscillators



oscillating oscillators



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