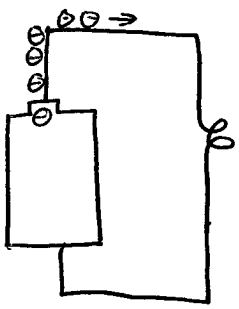
Electron Flow



- electrons exist everywhere in the wires
- an electron attempting to leave the battery will push against an electron already in the wire, causing it to move away by electron repulsion.
- individual electrons do not flow in circles through the circuit

Resistance

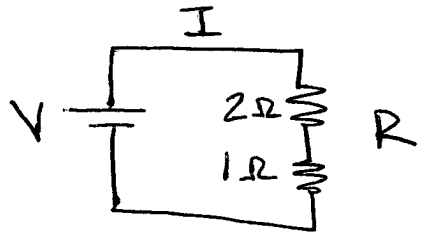
- resistor use/remove energy from the circuit.
  - the electrons do no slow down, lose their negative charge, or be destroyed, they simply lose energy
- measured in Ohms (Ω)

Ohm's Law

- describes the relationship between voltage (V), current (I), and resistance (R)

$$V = IR$$

units (V) (A)(Ω)



Total resistance = 3Ω