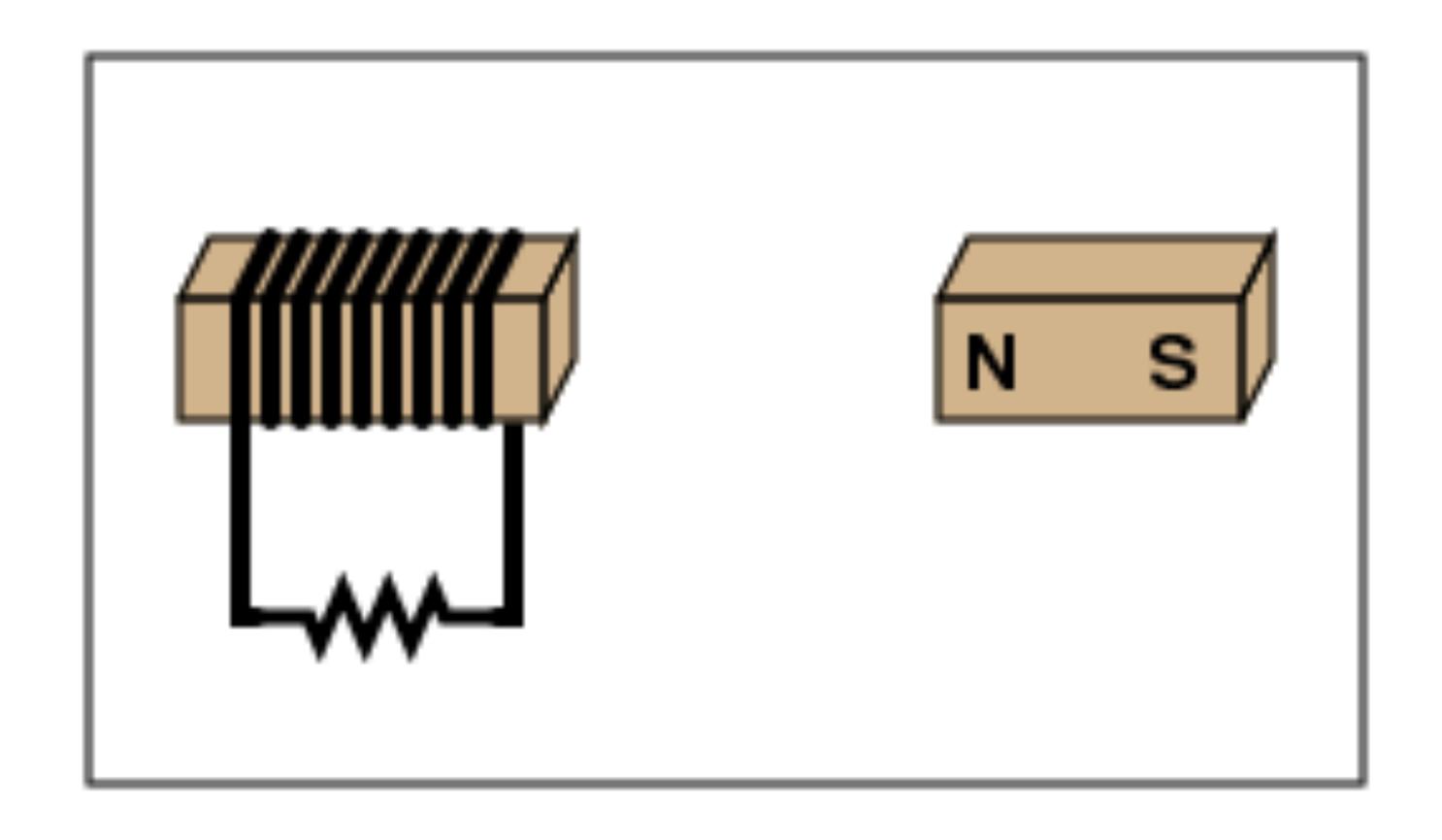
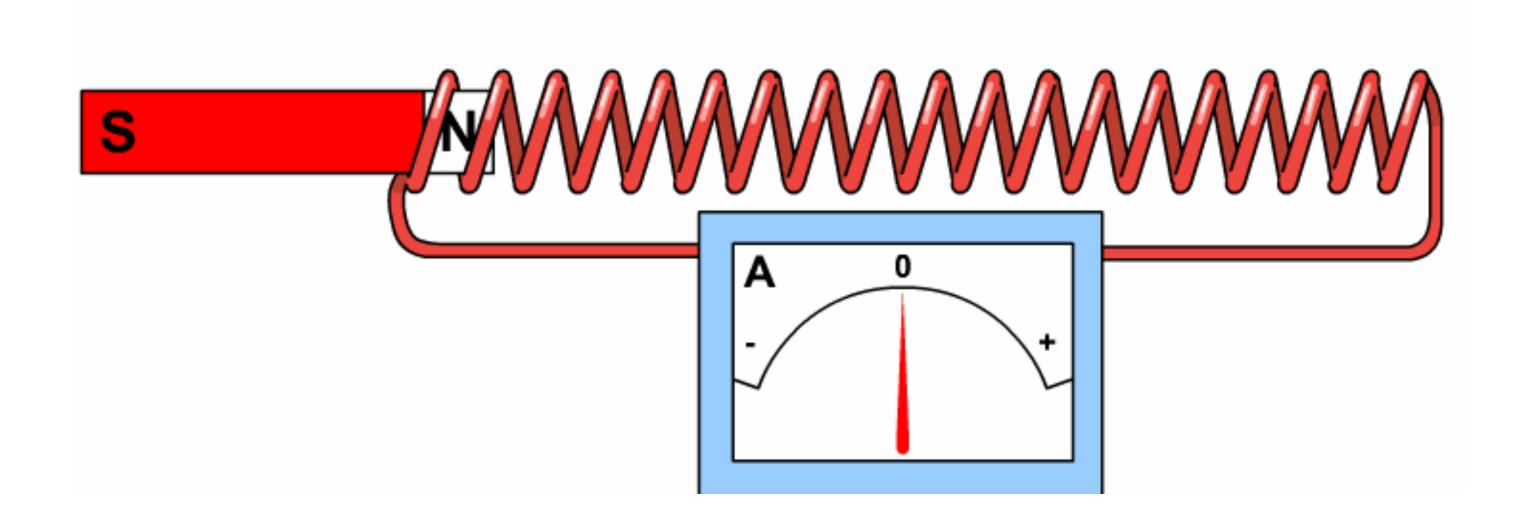


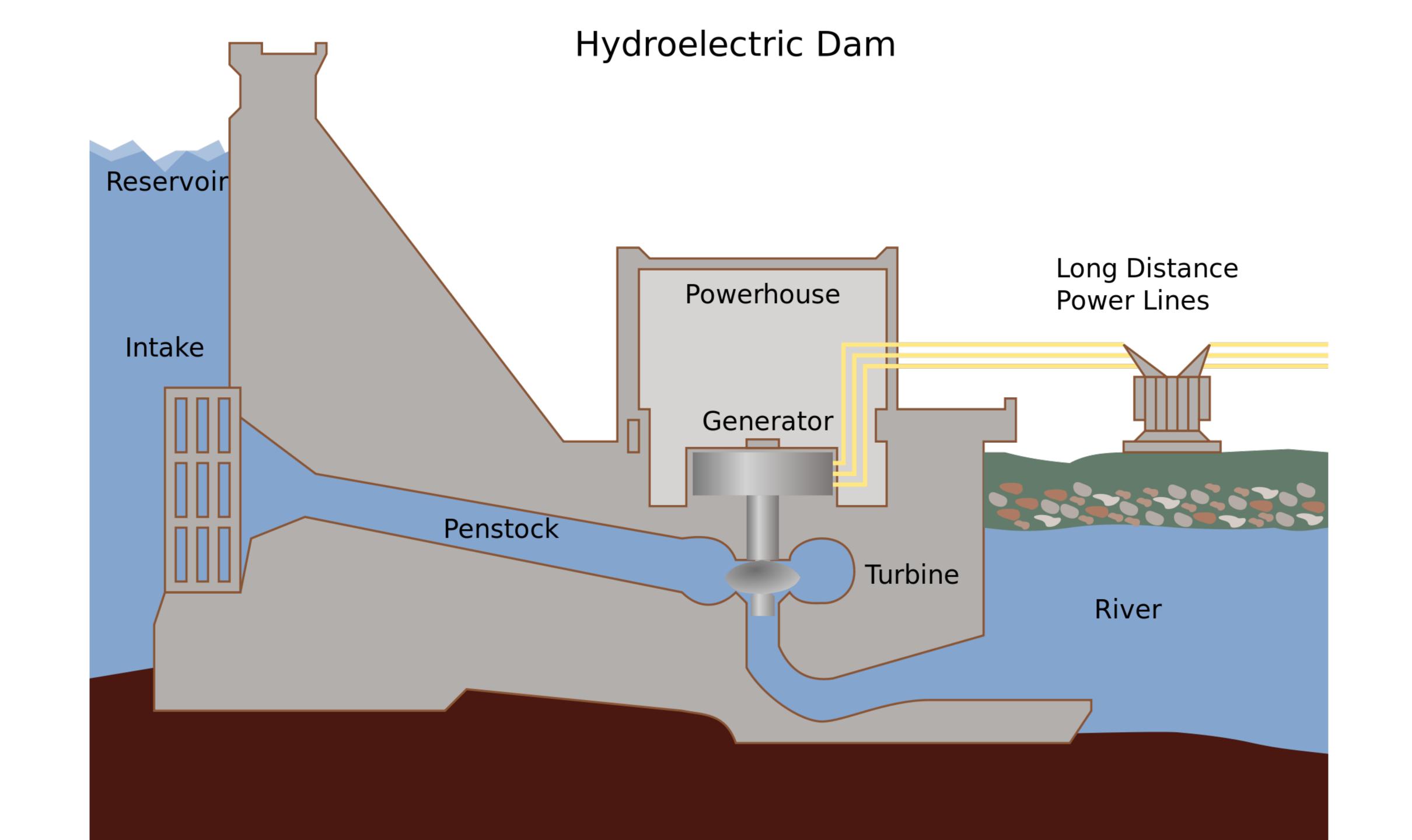
Electromagnetism

Induction: induce a magnetic field my sending current through wire



Induction: also create electricity by moving a magnet through a coil of wire

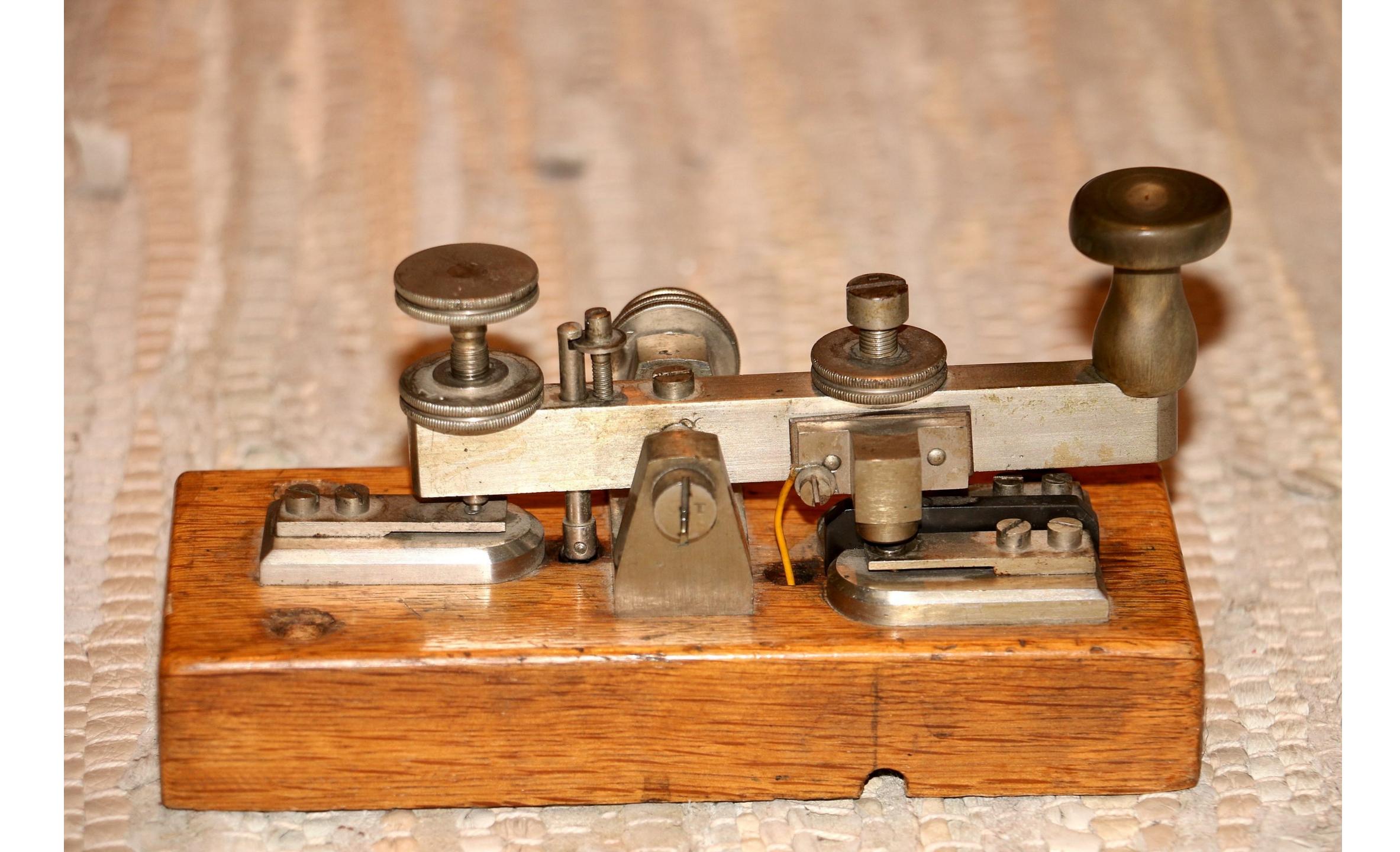


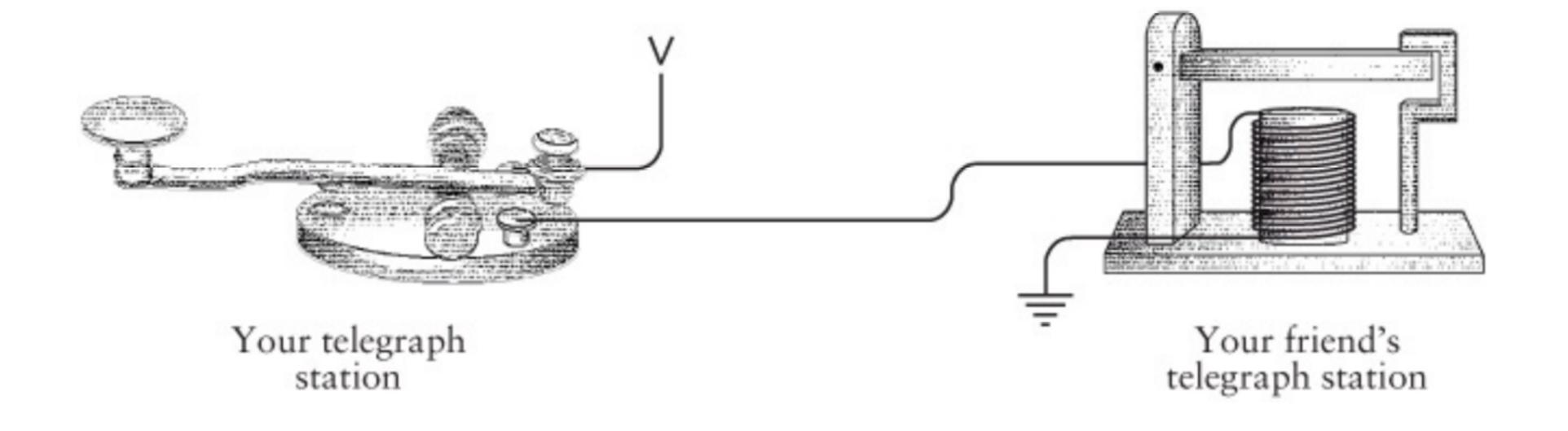


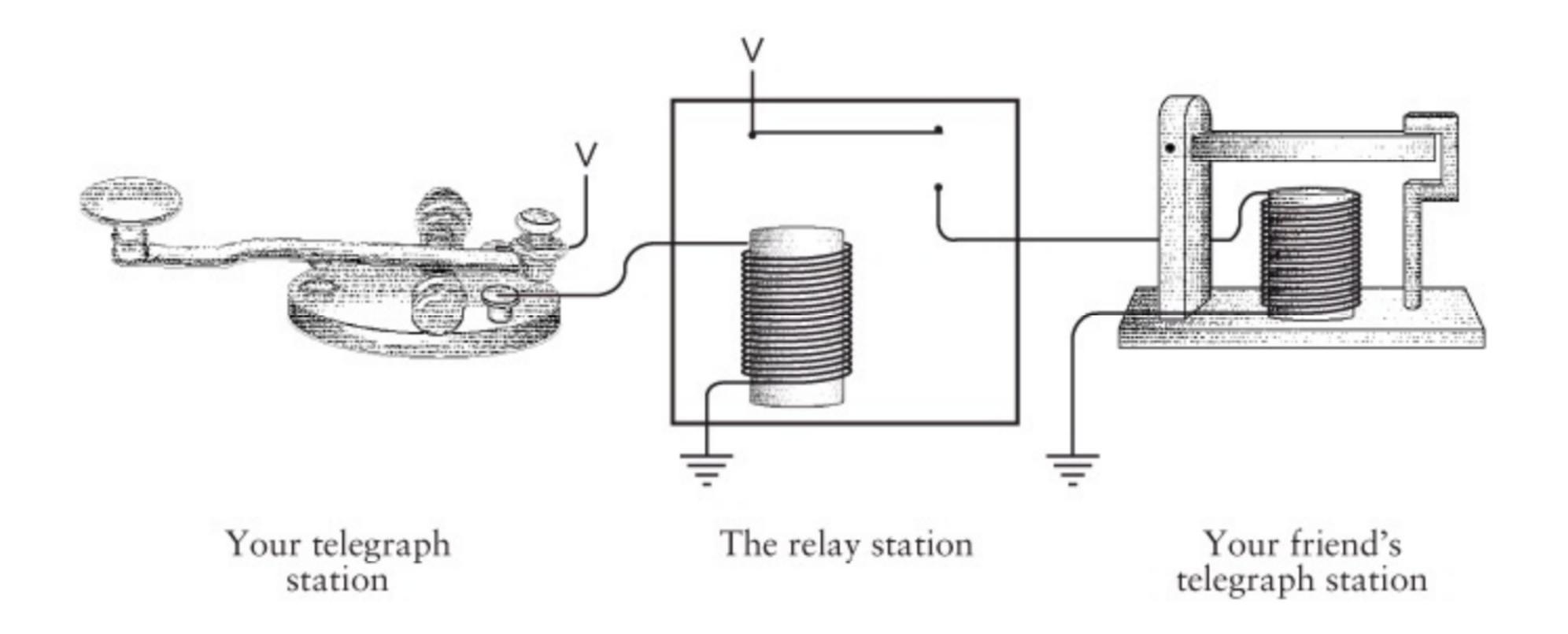
Motors

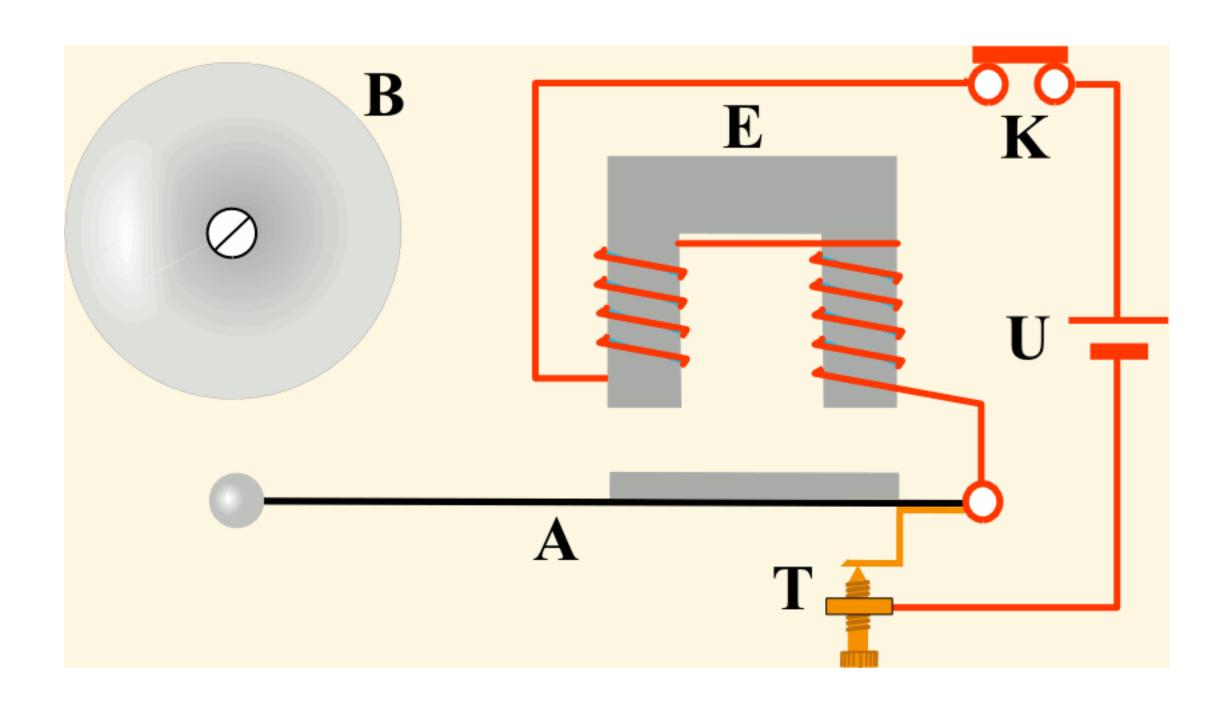
Inspiration: https://vimeo.com/7235817

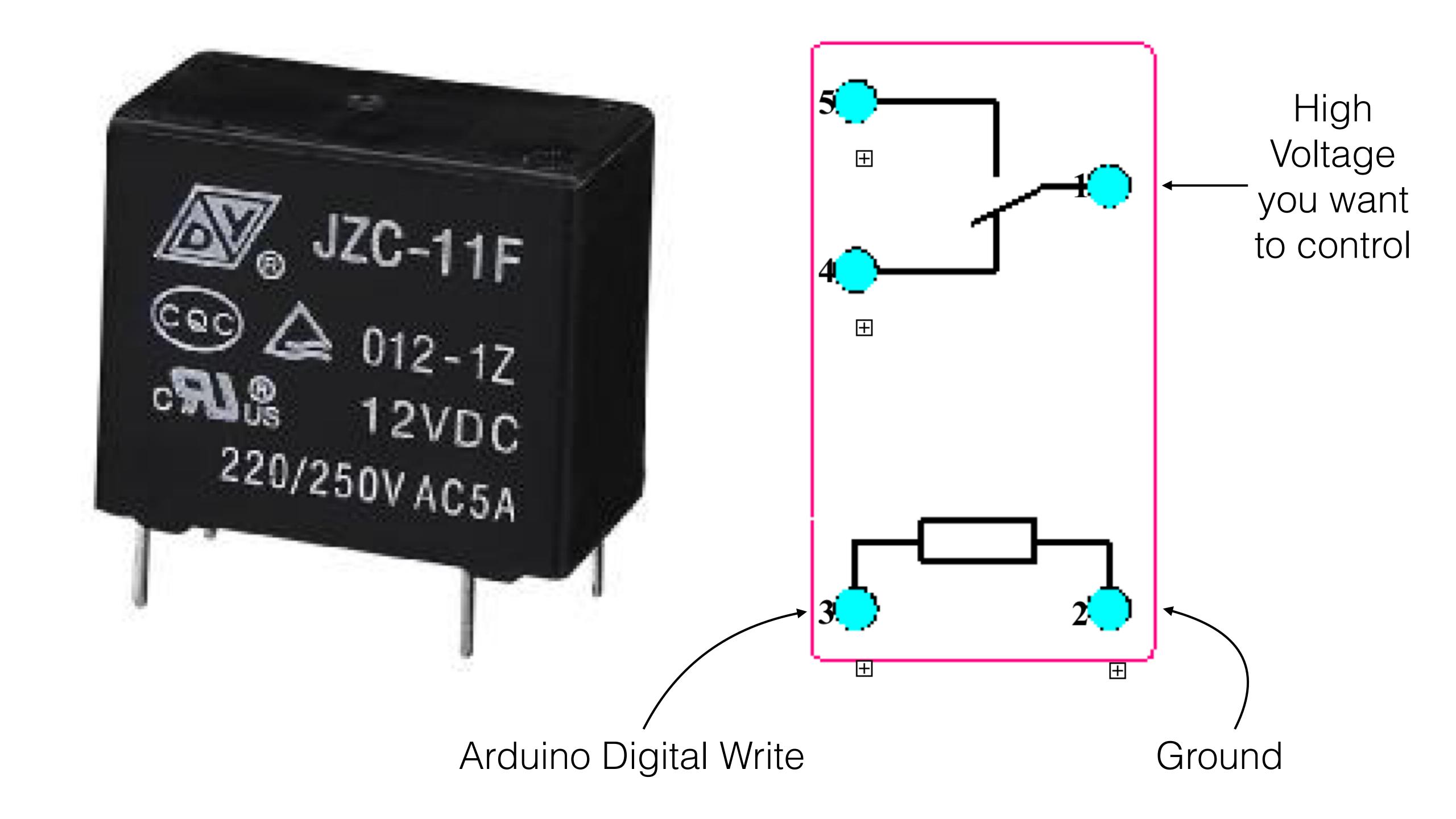








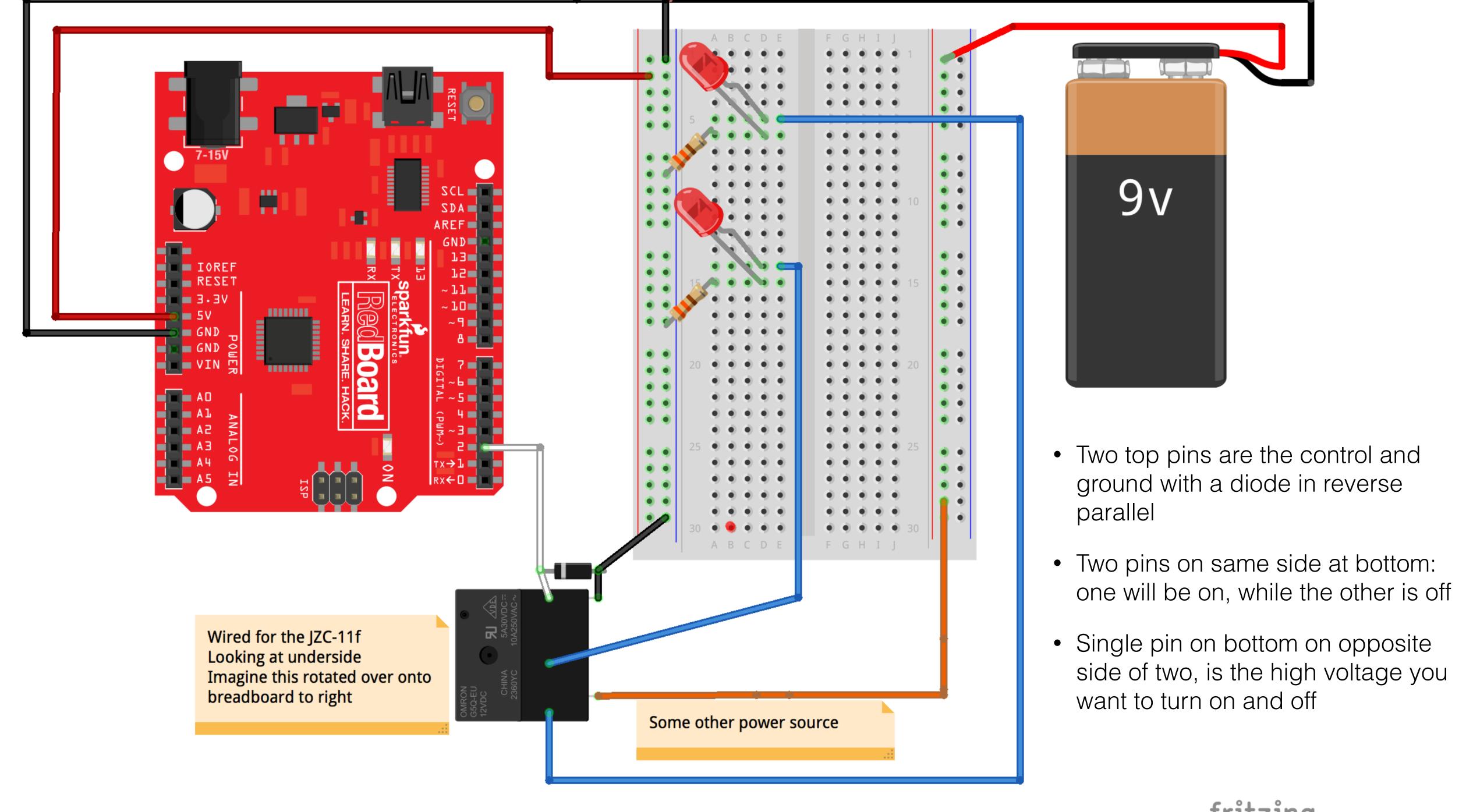




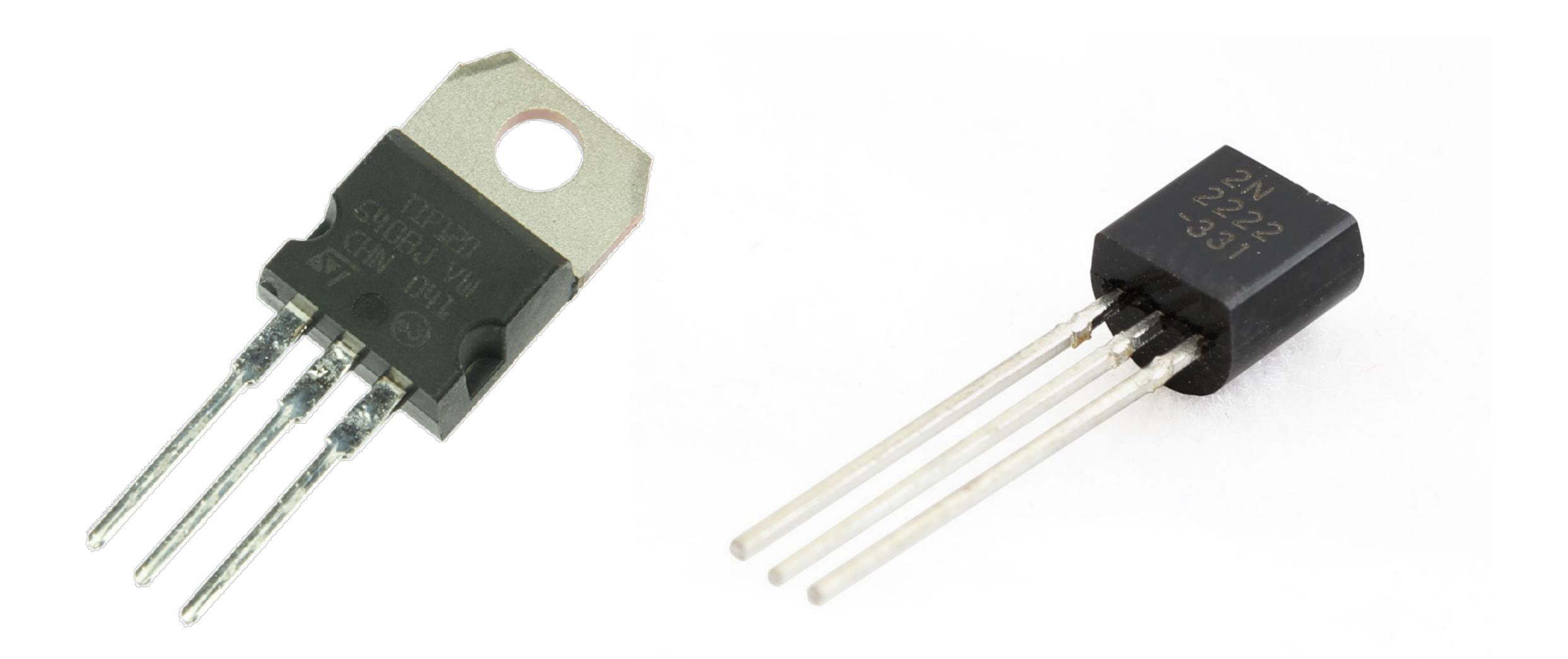




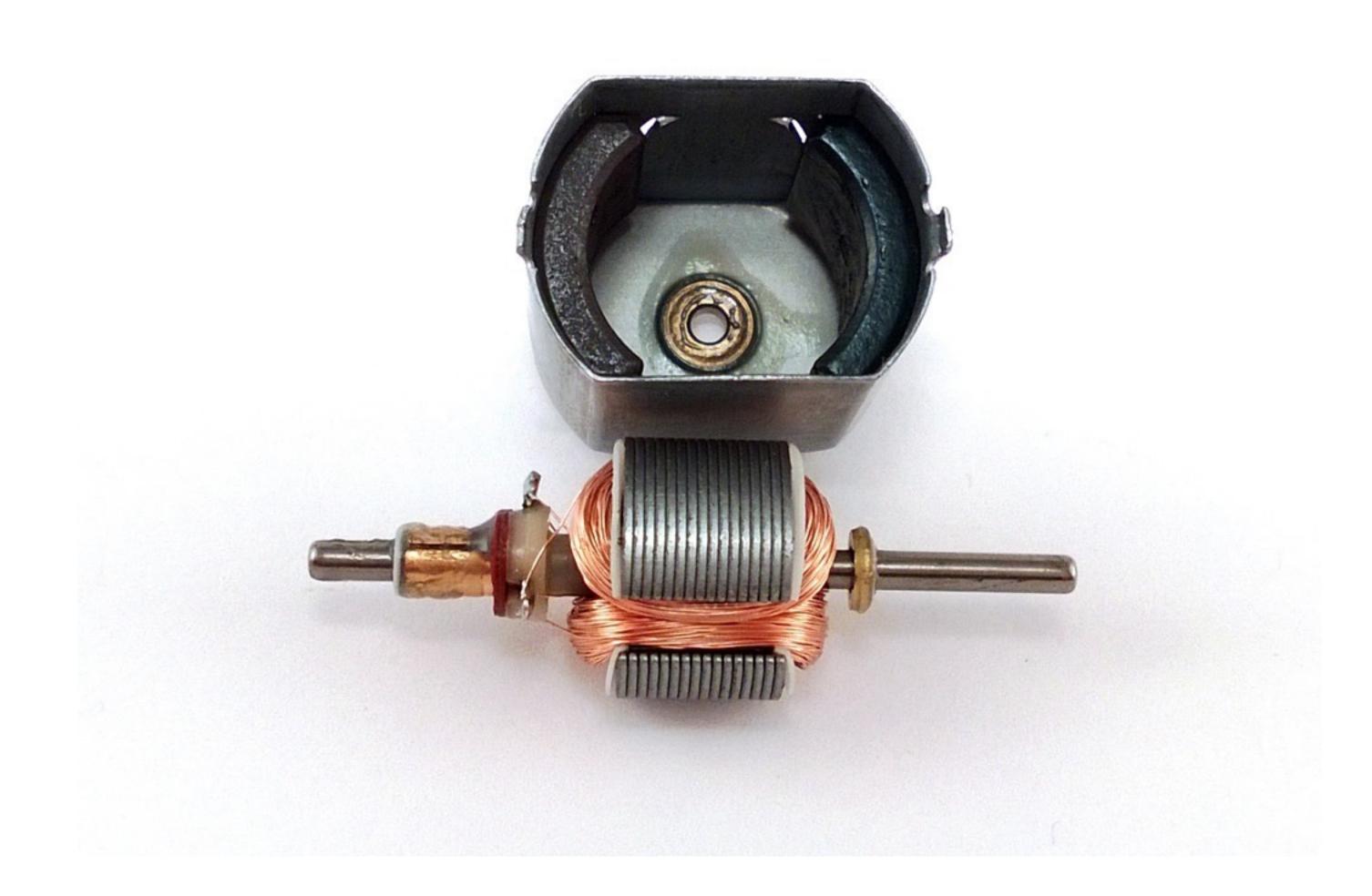
Can I hurt myself???

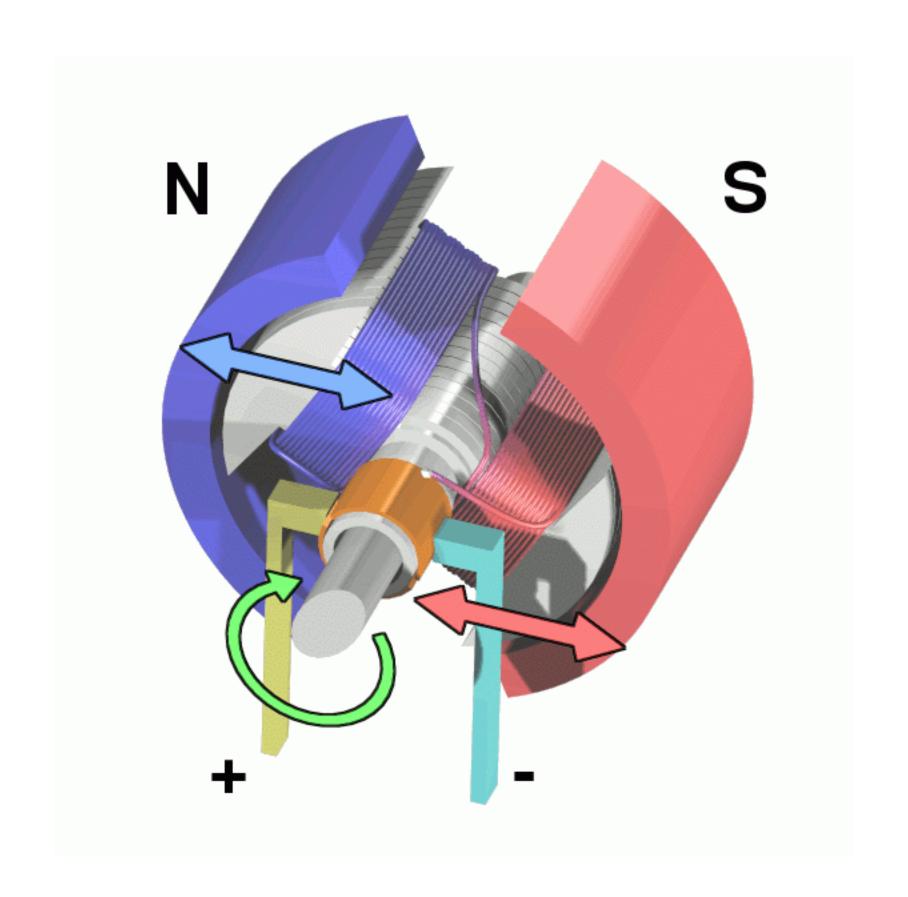


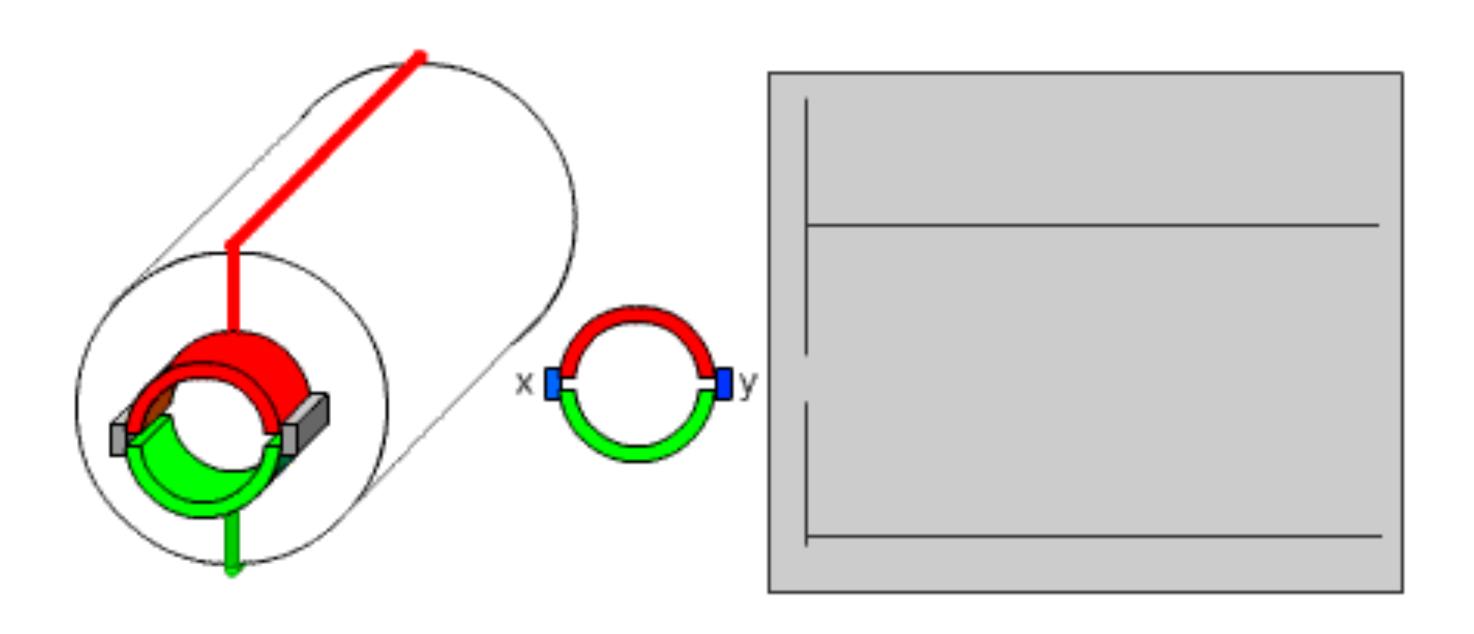
fritzing



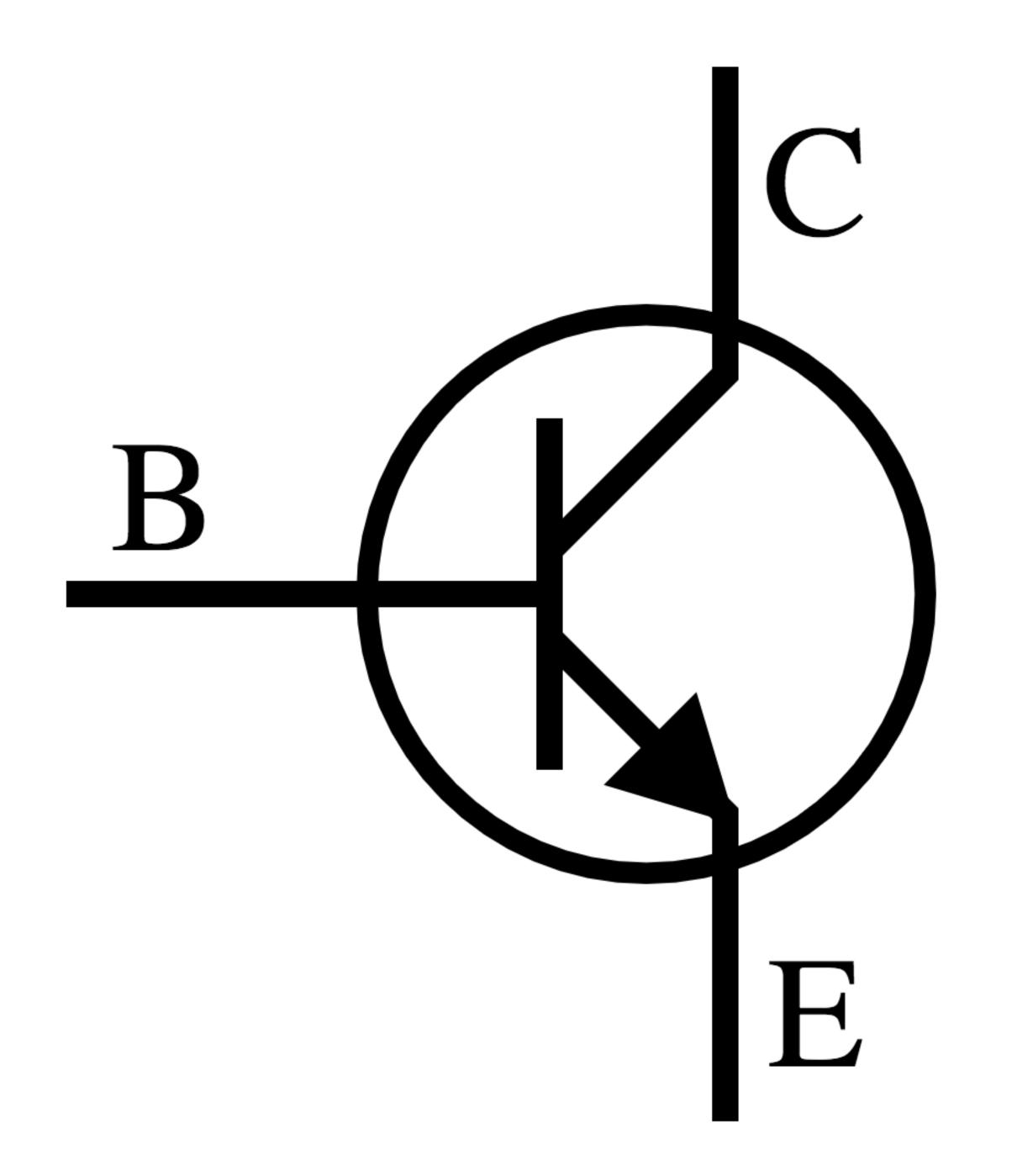


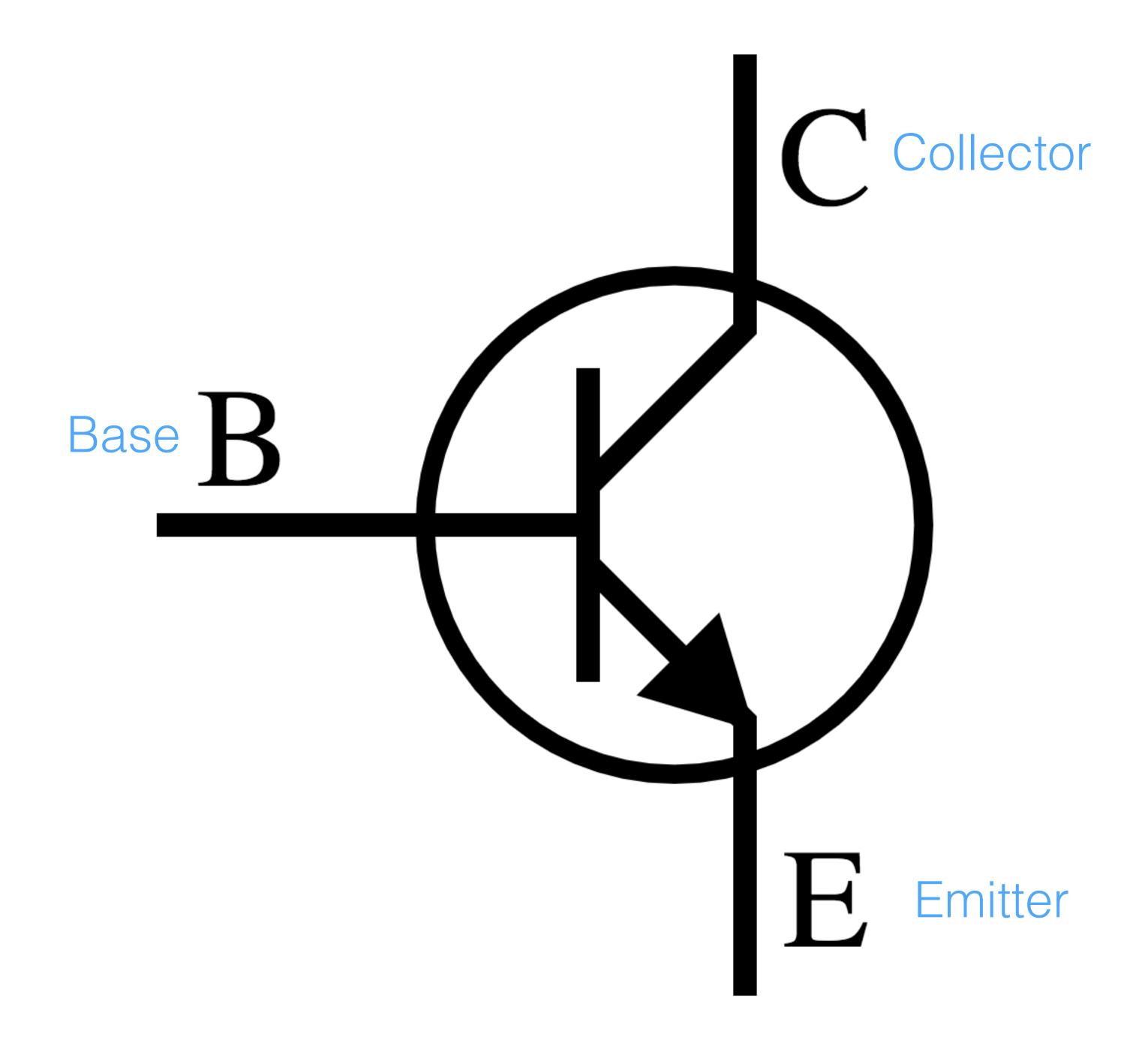


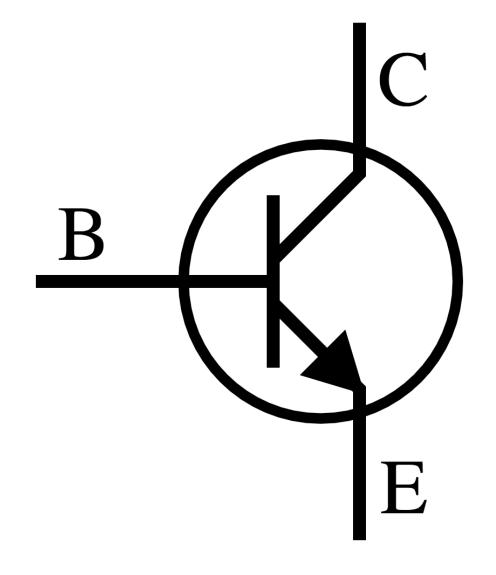


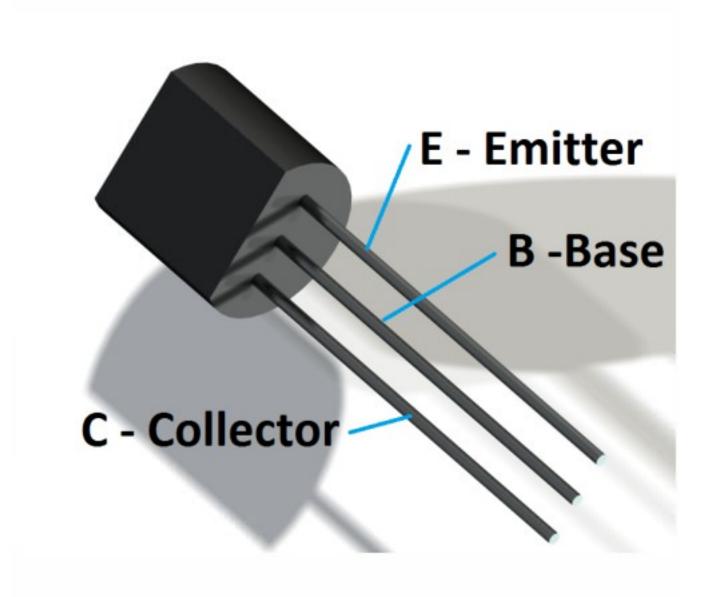


- Voltage: below optimal you get less power, above rating will burn out
- Torque: measure of strength of motor
- Speed is given as RPM, Rotations Per Minute

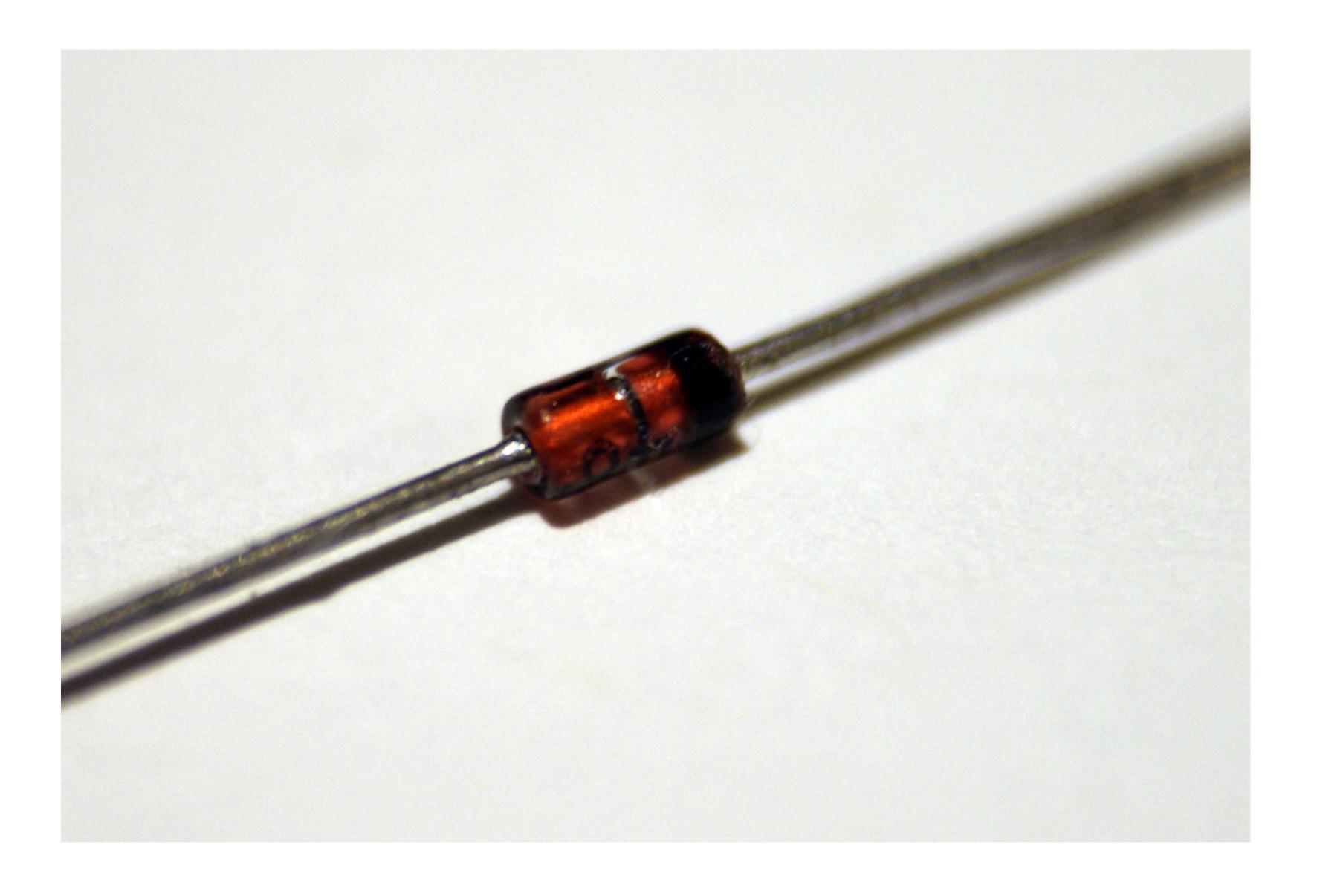


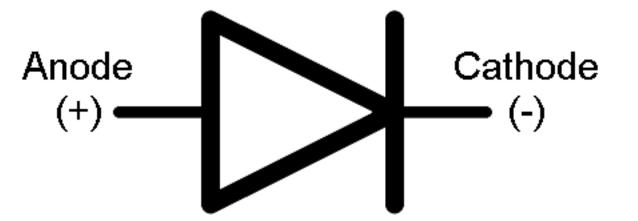




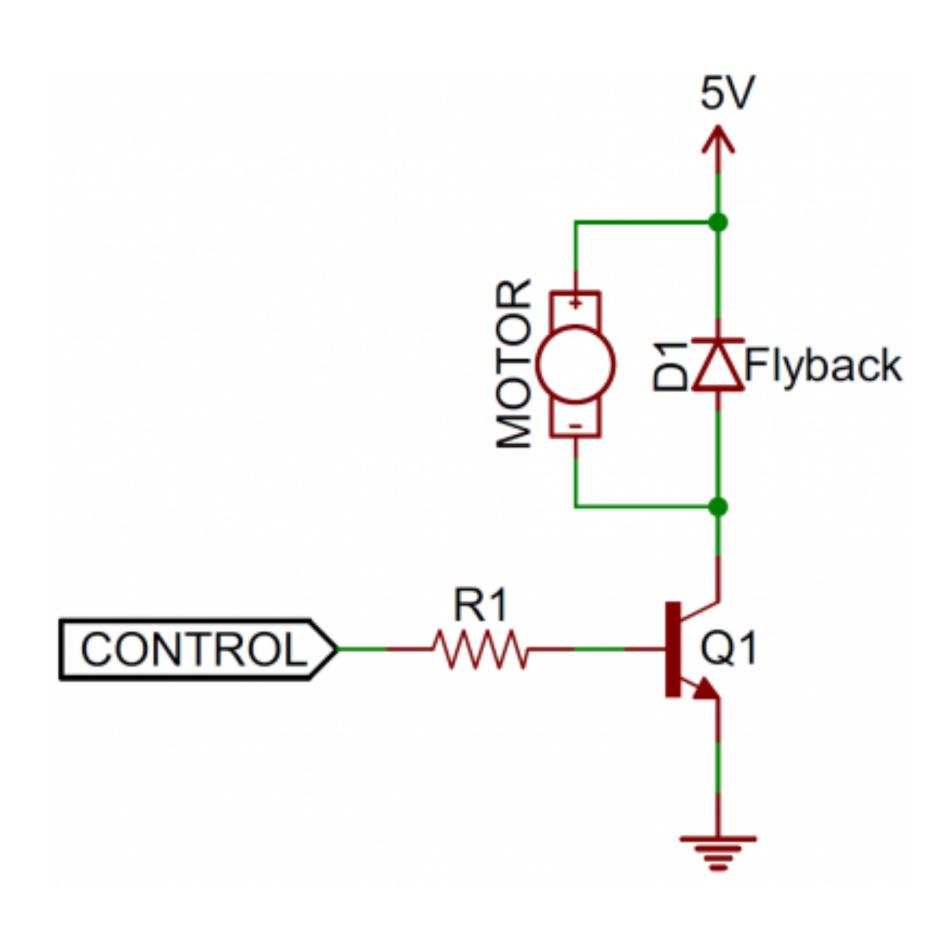


Diode

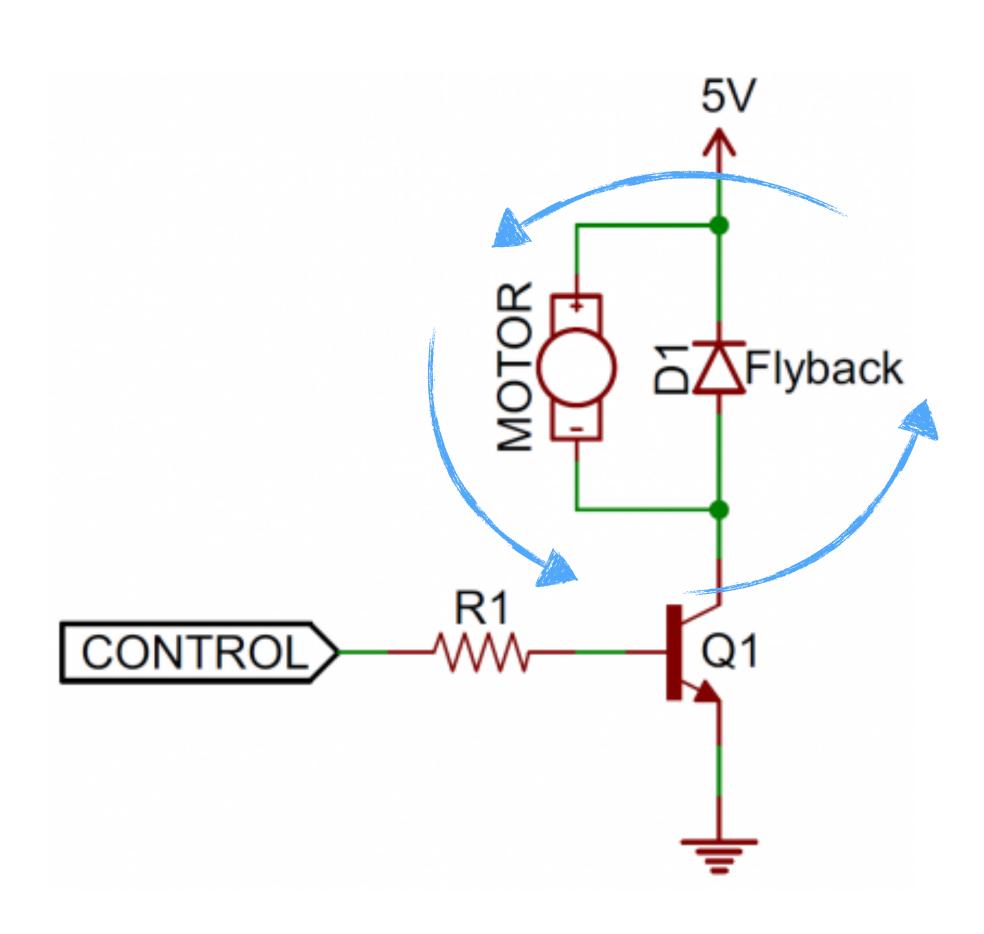


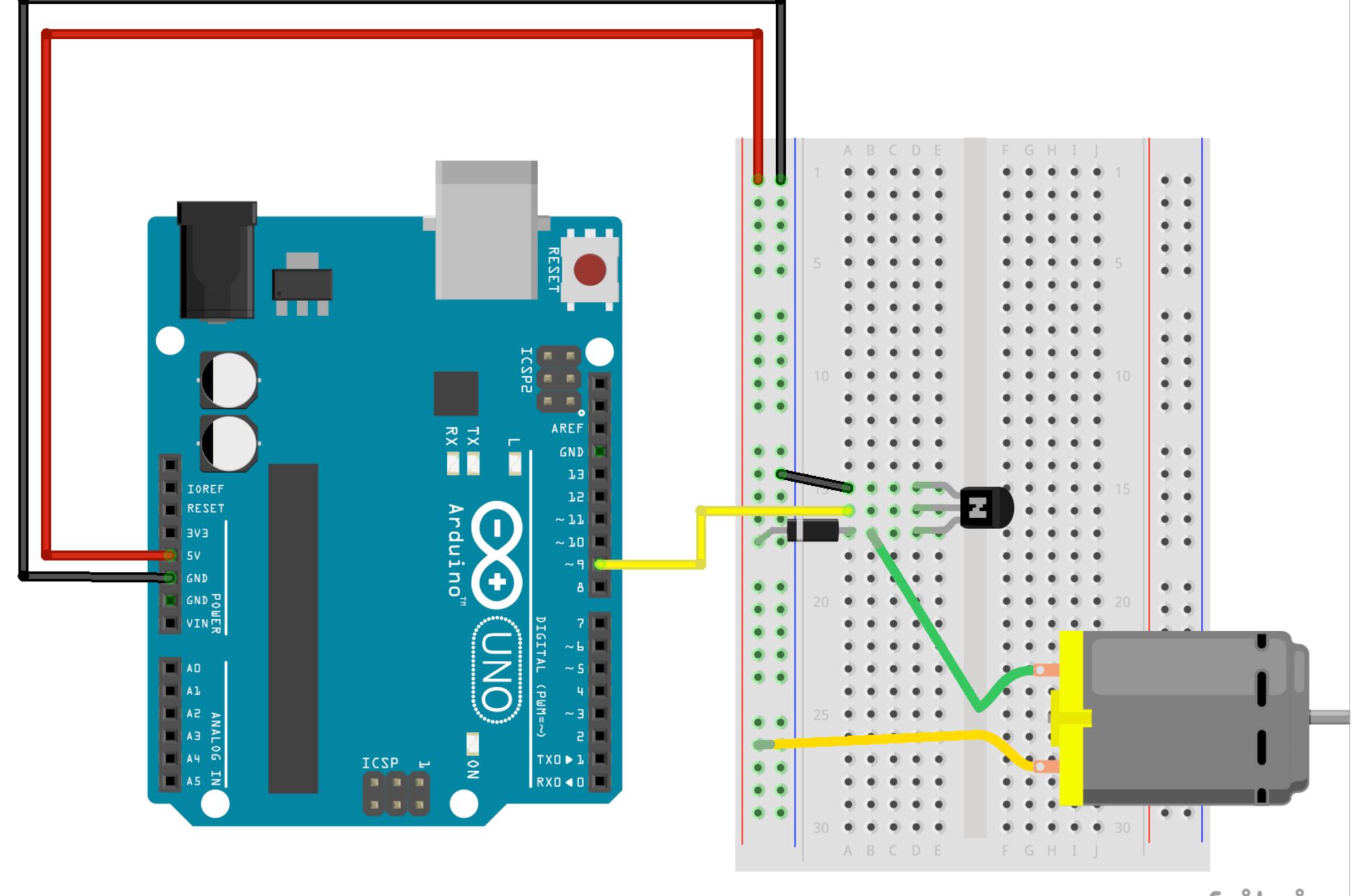


Flyback diode prevents a voltage spike from damaging our circuit when an inductor is turned off.

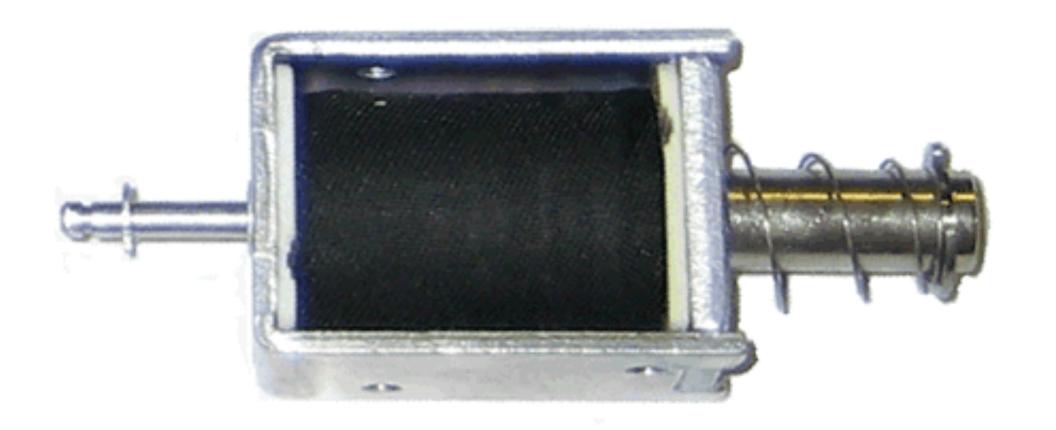


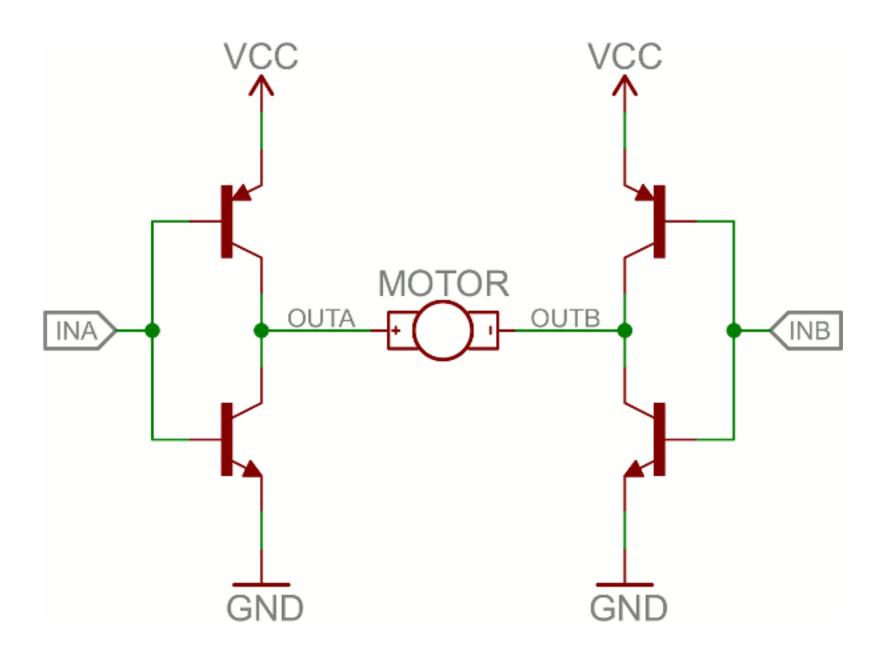
Flyback diode prevents a voltage spike from damaging our circuit when an inductor is turned off.



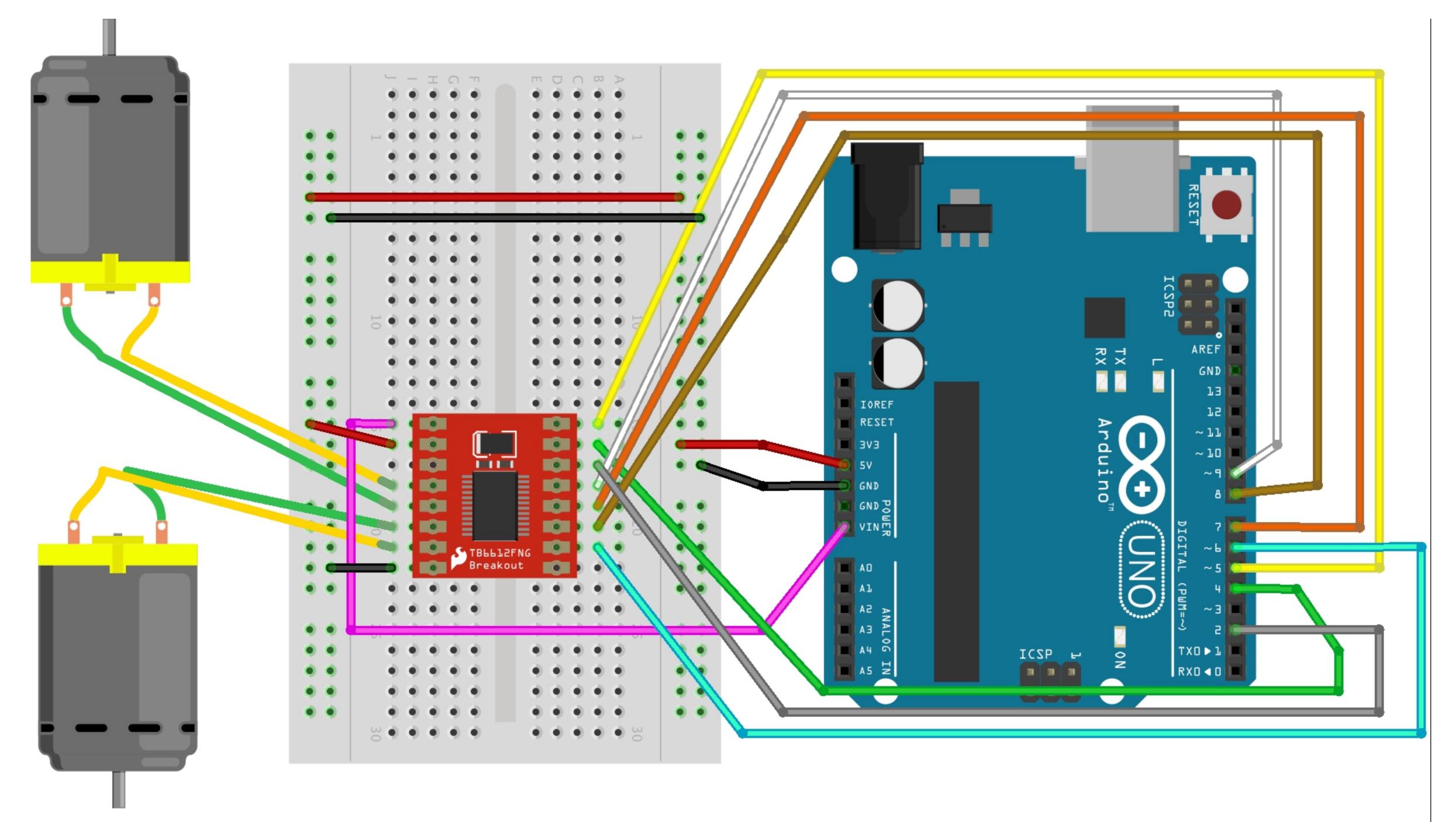


fritzing

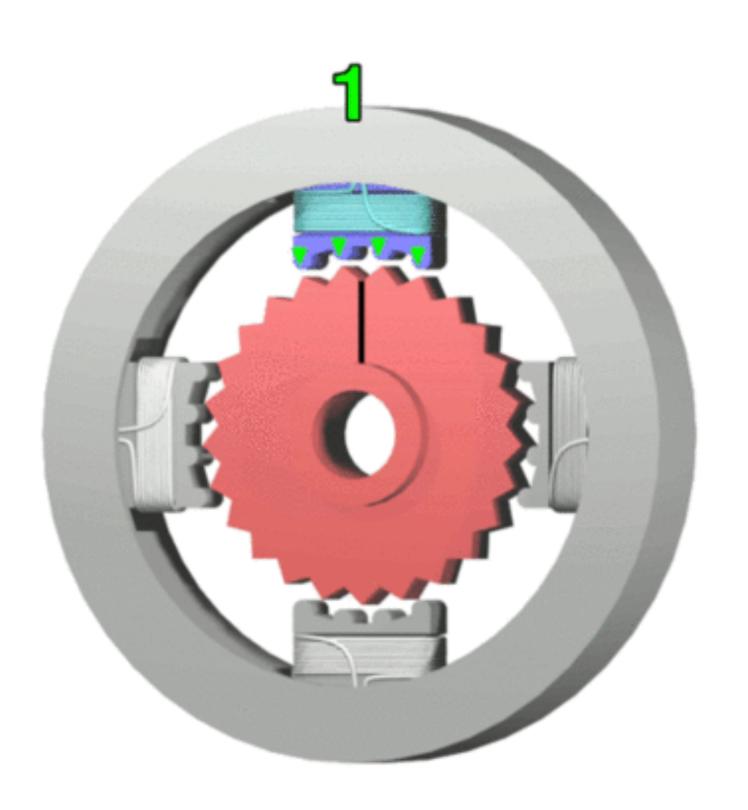


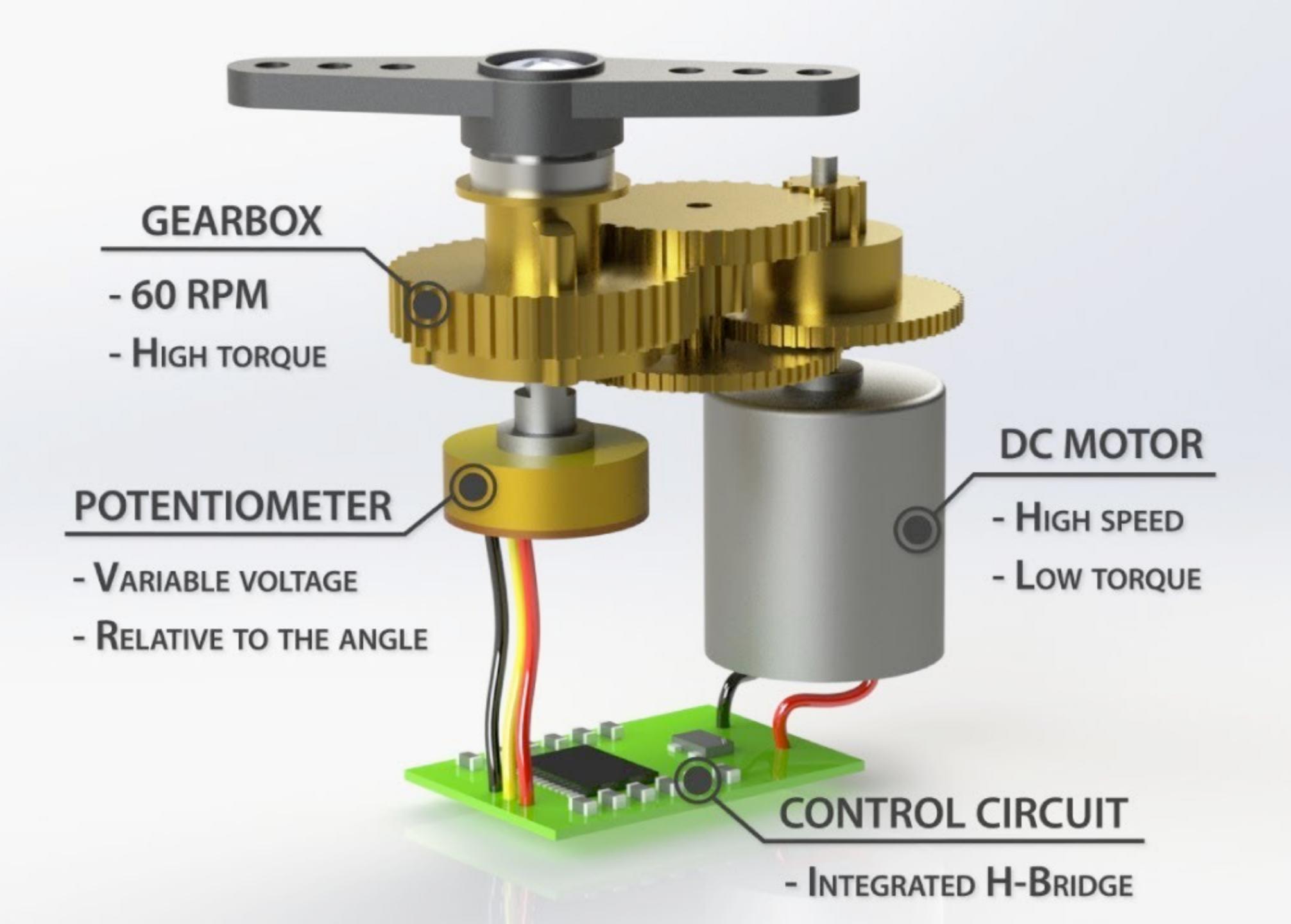


Motor Shields

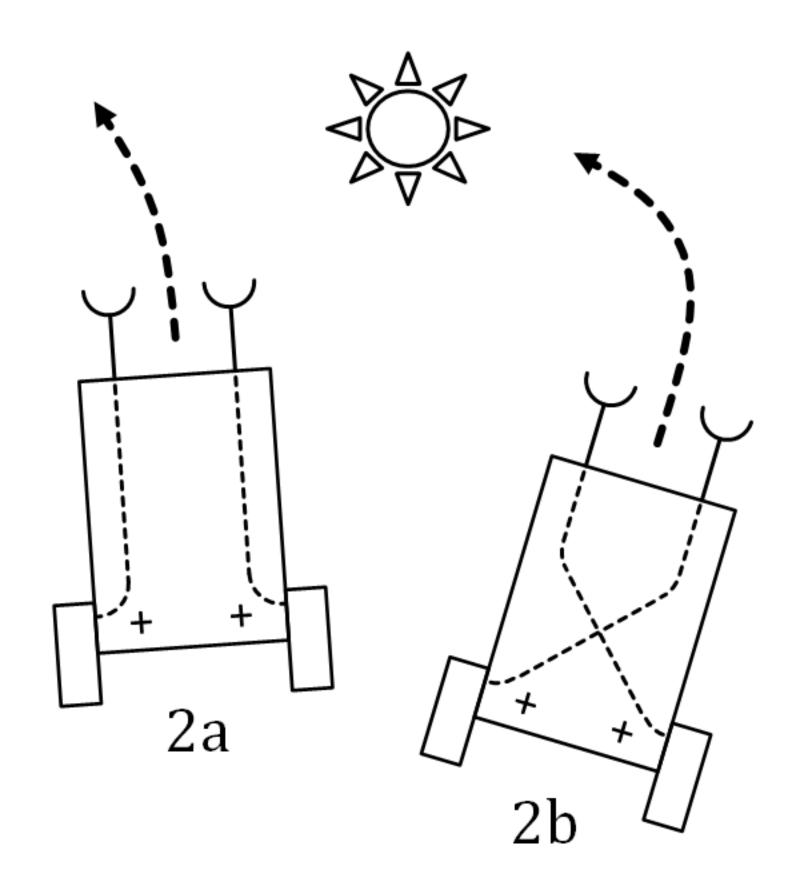


Stepper Motors

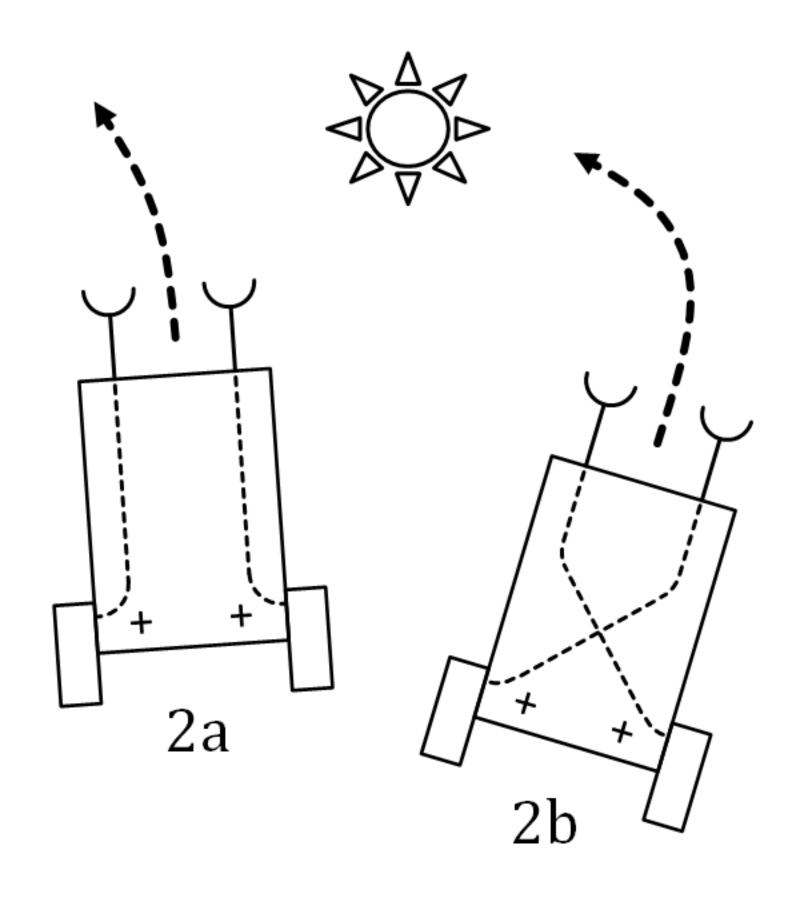




Braitenberg Vehicles



Goes fast when stimulus is strong - fear & aggression



Goes slower when stimulus is strong - love

