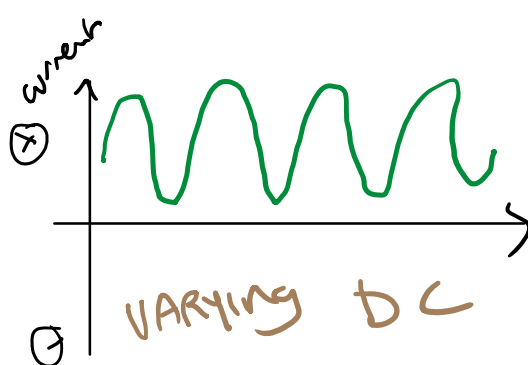
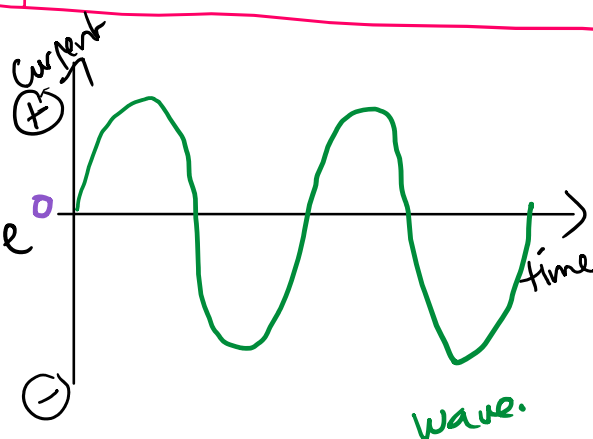
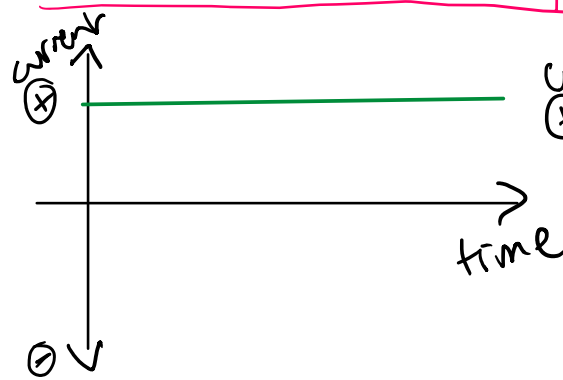


Direct current

- current flows in 1 direction only
- current flows from $\oplus$ to $\ominus$
- Source: cell, battery

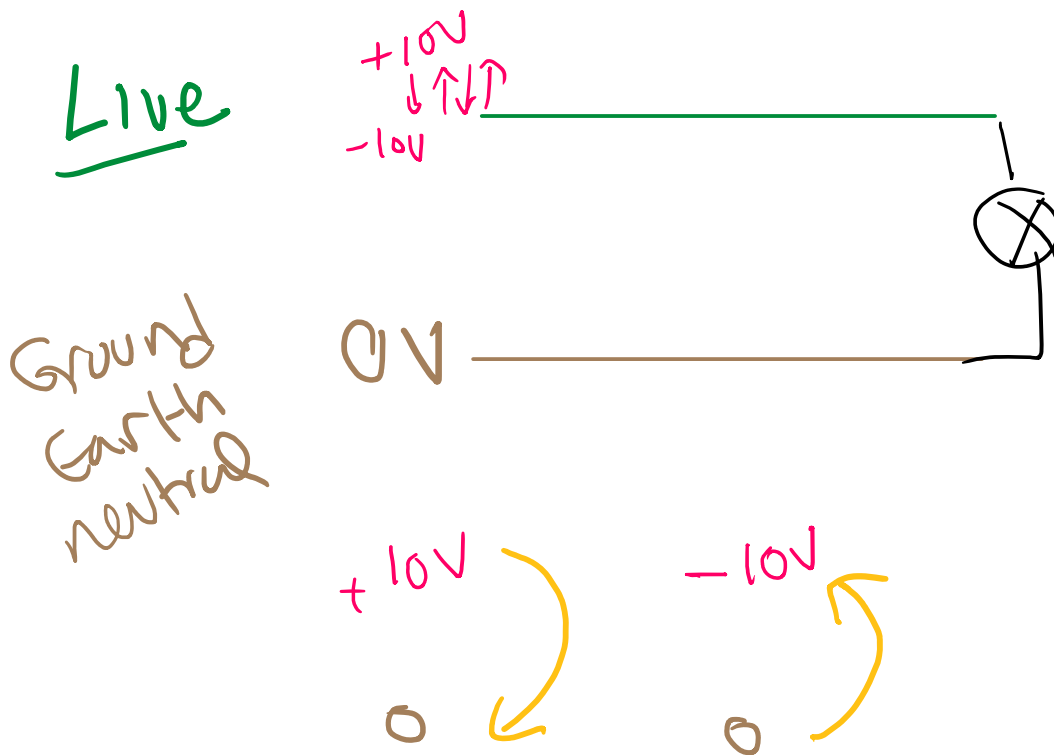
Alternating current

- current changes direction frequently
- current flows from high potential to low potential.
- Source: mains socket
house electric socket



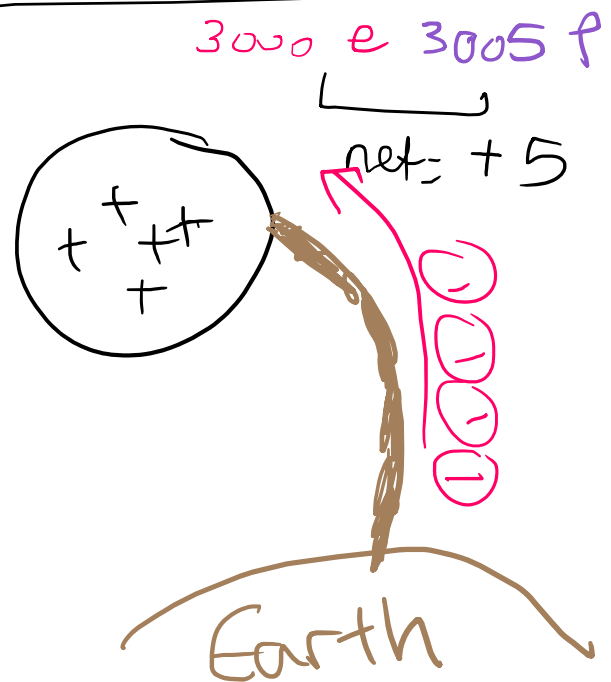
* Most electronic devices use DC
laptop, TV, PC
mobile phone
→ needs A rectifier to change mains AC current to DC

* Most Electric devices are designed for AC
Fridge, A/C, Lights

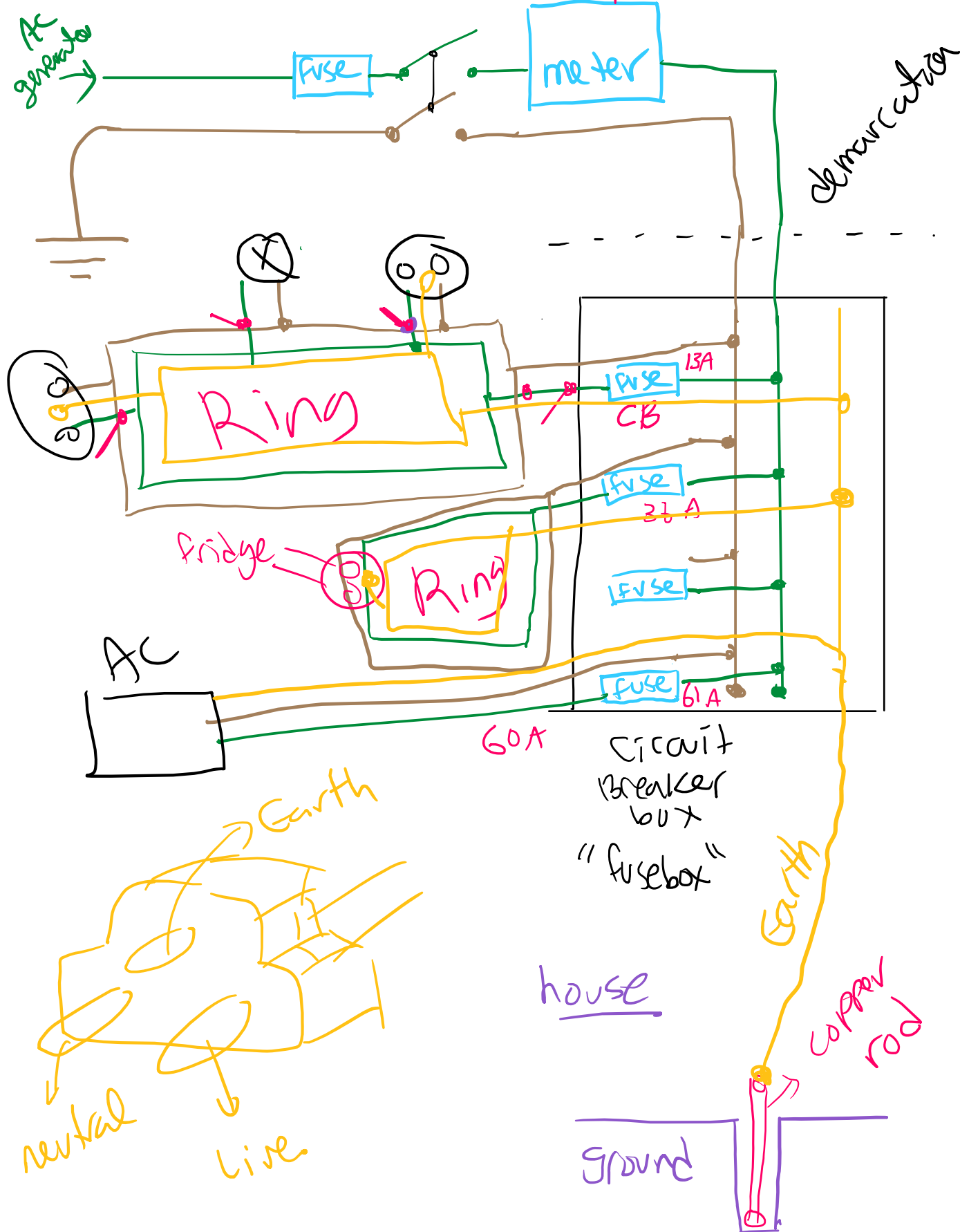


Ground

Earth is a universal giver & receiver of electrons



Electric Company



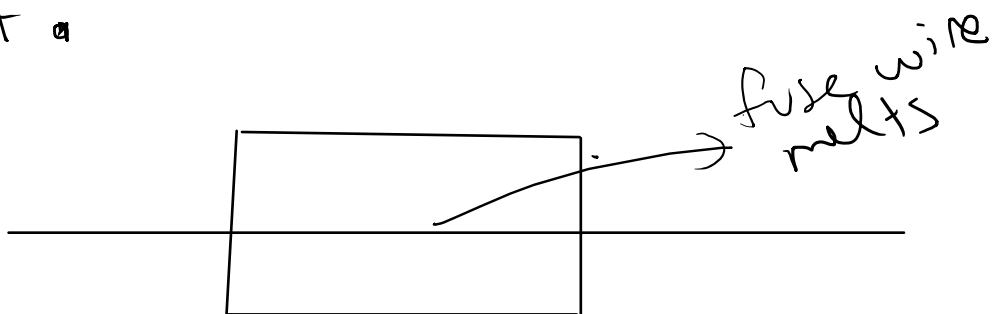
FUSE

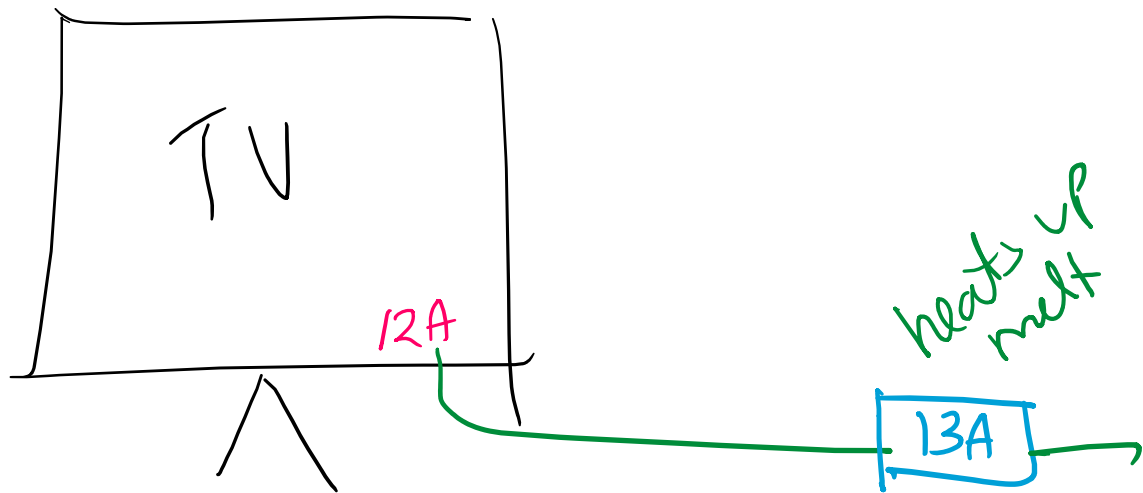
Kami Kaze

Pearl harbor



- fuses are designed to be sacrificed instead of expensive electric devices.
- When current increases above a certain value, the fuse melts & breaks the circuit, so the large current doesn't reach the expensive device & damage it.

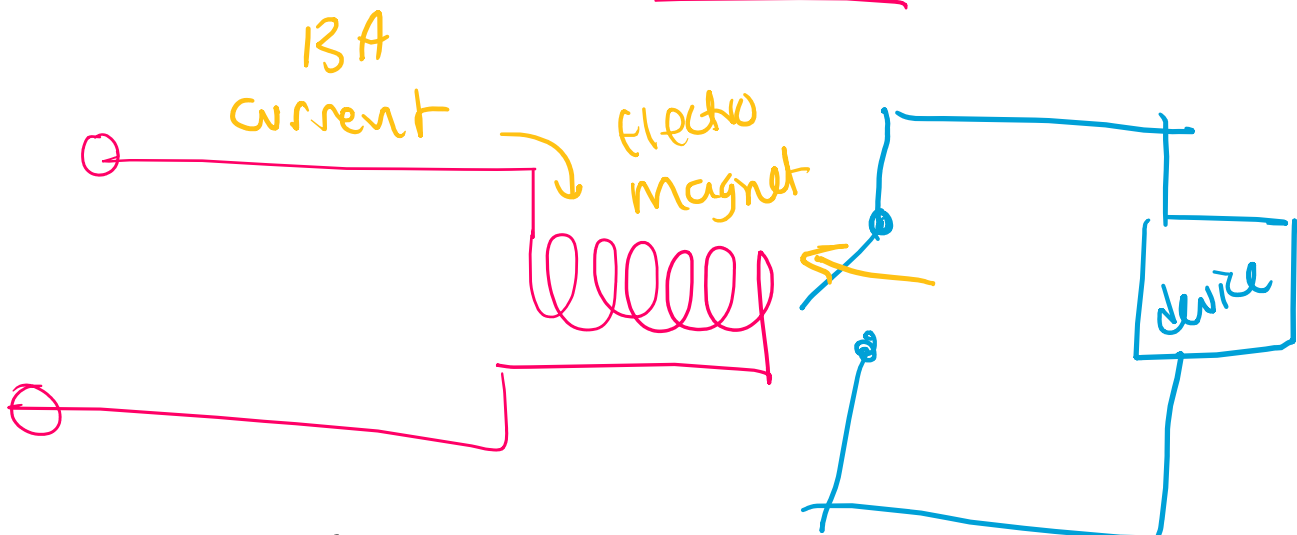




↓
upgrade

Circuit Breaker

uses magnetic Relay



① much faster

② can be reset by a switch

