Section 3 - Transistors

Wednesday, June 19, 2019 11:00 AM



"CIRCUITS DON'T HAVE BROTHERS, THEY
HAVE TRANSISTERS"

VOLTAGE · BTENTIAL FOR CURRENT TO

· MEASURED IN VOLTS

CURRENT · AMOUNT OF CHARGE FLOW

· MEASURED IN AMPS

RESISTANCE · WIRE'S OPPOSITION TO

· MEASURE IN OHMS

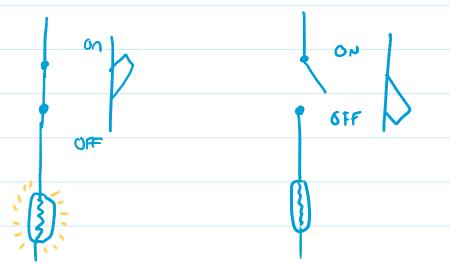
JOLIALIE KESISTON

(VIRENT

OHM'S LAW. V=IR

SWITCH. TURNS ON AND OFF

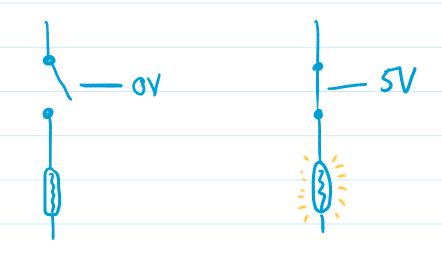
- · RESTRICTS CURRENT FLOW
- · SEE LIGHT SWITLHBEZOW



- ·WE CAN THINK OF 1+0 25 0~ + OFF, RESPECTIVELY
- · WHEN THE SWHICH IS 1, THE LIGHT IS ALSO 1
- · WHEN SWITCH IS Ø, LIGHT IS Ø

ELECTRONICALLY CONTROLLED SWHICH

- · INSTEAD OF A HUMAN FLICKING A SWITCH, THE ELECTRONICS DOES
- THE CONTROL INPUT CONTROLS THE SWITCH



- · ONCE AGAIN, WHEN CONTROL = 0 LIGHT= 6
- · WHEN CONTROL= 2, LIGHT = 2
- * THESE SWITCHES ARE CALLED TRANSISTERS

SOME NOTES ON CIRCUITS

- · CIRRUITIS A GROUP OF CONNECTED
- Two TYPES OF VOLTAGE
 HIGH: NOT OV

LOW: OY

- DIGITAL. IN A DIGITAL SYSTEM ONLY HIGH AND LOW VOLTAGE
 - · HIGH DENOTED BY 1
 - · LOW DENOTED BY 0
- ANALOG. VSES MANY DIFFERENT VOLTAGED

 NO HIGH OR LOW, ONLY VALUES

 OF VOLTAGES
- A DIGITAL CIRCUIT IS A CIRCUIT OF SWITCHES

