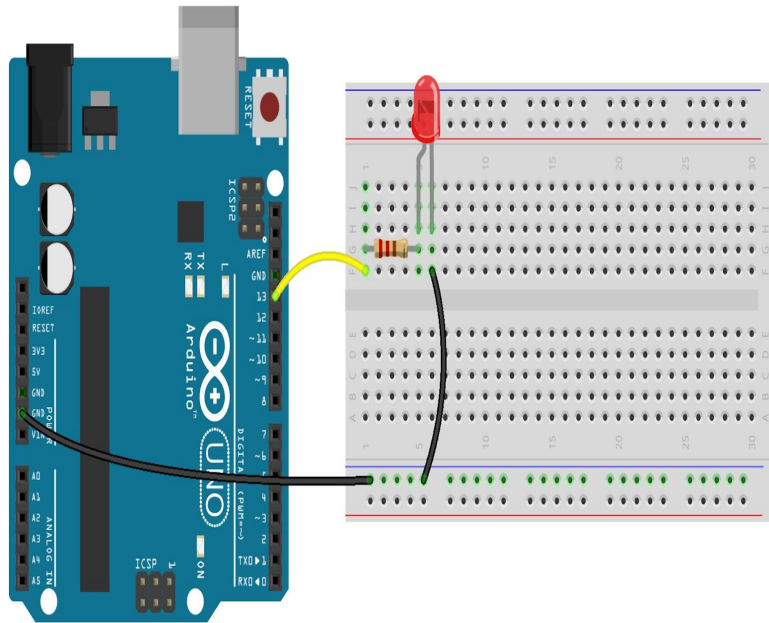# menlo robotics^(™)

Electronics Experiment 1

In this experiment we will use arduino to power and control a basic led. We will also use a switch to control the led.
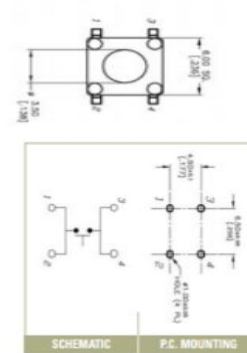
Resistor

Resistor is a basic component and use to control the current and also used as voltage divider.
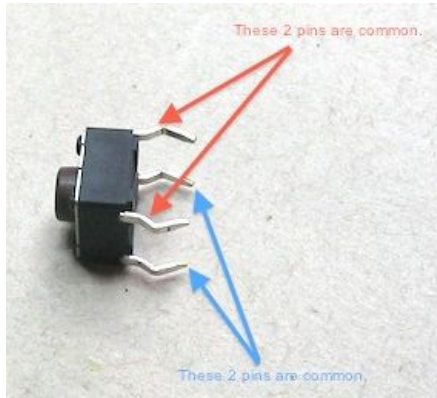
LED

Led is a basic component it is used to light up the circuits, it is very close to a bulb. It is a bipolar device means it has +ve and -ve side. The longer wire is generally +ve side and should be connected to higher voltage side.
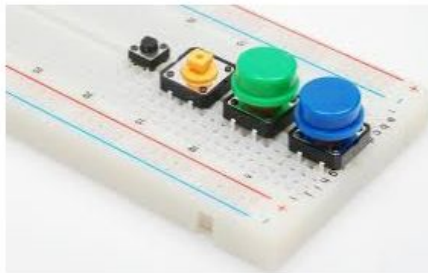
Switch(momentary)

A switch is a basic component and is used to turn on and off parts of circuit , the switch in picture is momentary switch meaning it only turns on when pressed upon release of pressure it goes back to its normal form (mostly off). The sides that does not have the wires is horizontal side and should be connected in parallel on board as shown.
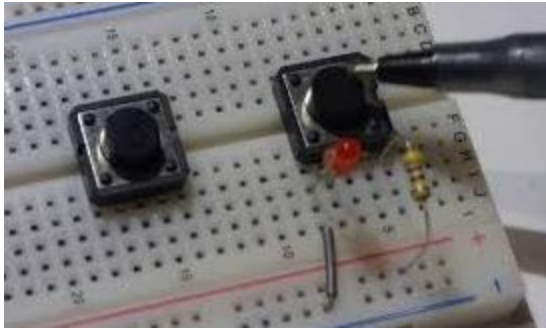
Switch common sides

A switch has 4 pin generally and 2 of are connected in pairs as shown.

Switch how to place on breadboard

Please refer to following picture

Switch LED Experiment

In our experiment we will connect switch to led as shown and test out.