



# PyroElectro.com - PyroEDU

*Introduction To Modern Electronics – Lesson 4: The Capacitor*

## SCHEMATICS

The following schematic material is meant to go with the online lesson found here:

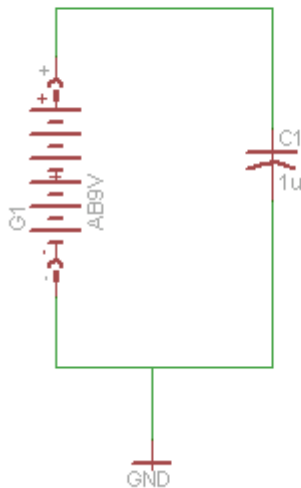
<http://www.pyroelectro.com/edu/basics/capacitor/>

## CAPACITOR AS A BATTERY

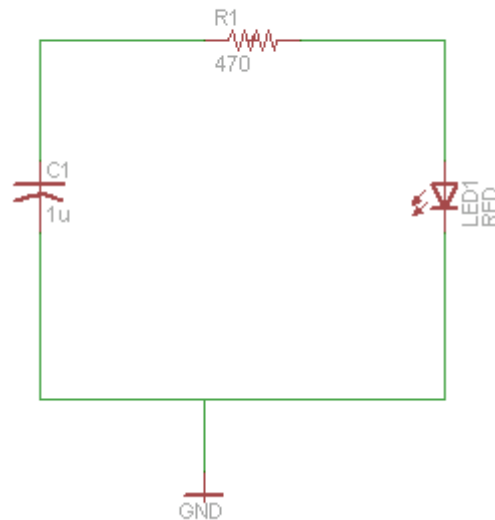
In this lesson, we performed an experiment where we built a standard single resistor and LED circuit, but then we used a capacitor to pass electrical charge from the 9v battery to the LED circuit. From doing this experiment we learned that capacitors store electrical charge and can discharge that stored electrical charge when plugged into a normal circuit.

We only used a 1  $\mu\text{F}$  capacitor for this experiment, however if you try it with other values of capacitors, like 100  $\mu\text{F}$  or 0.1  $\mu\text{F}$ , you will see a big difference in the amount of charge these other capacitors can hold, compared to the 1  $\mu\text{F}$

### Charge Capacitor



### Discharge Capacitor



## ADDITIONAL INFORMATION

To ask questions about anything found in this schematic please head on over to the forums located at:

<http://www.pyroelectro.com/forums/viewforum.php?f=22>