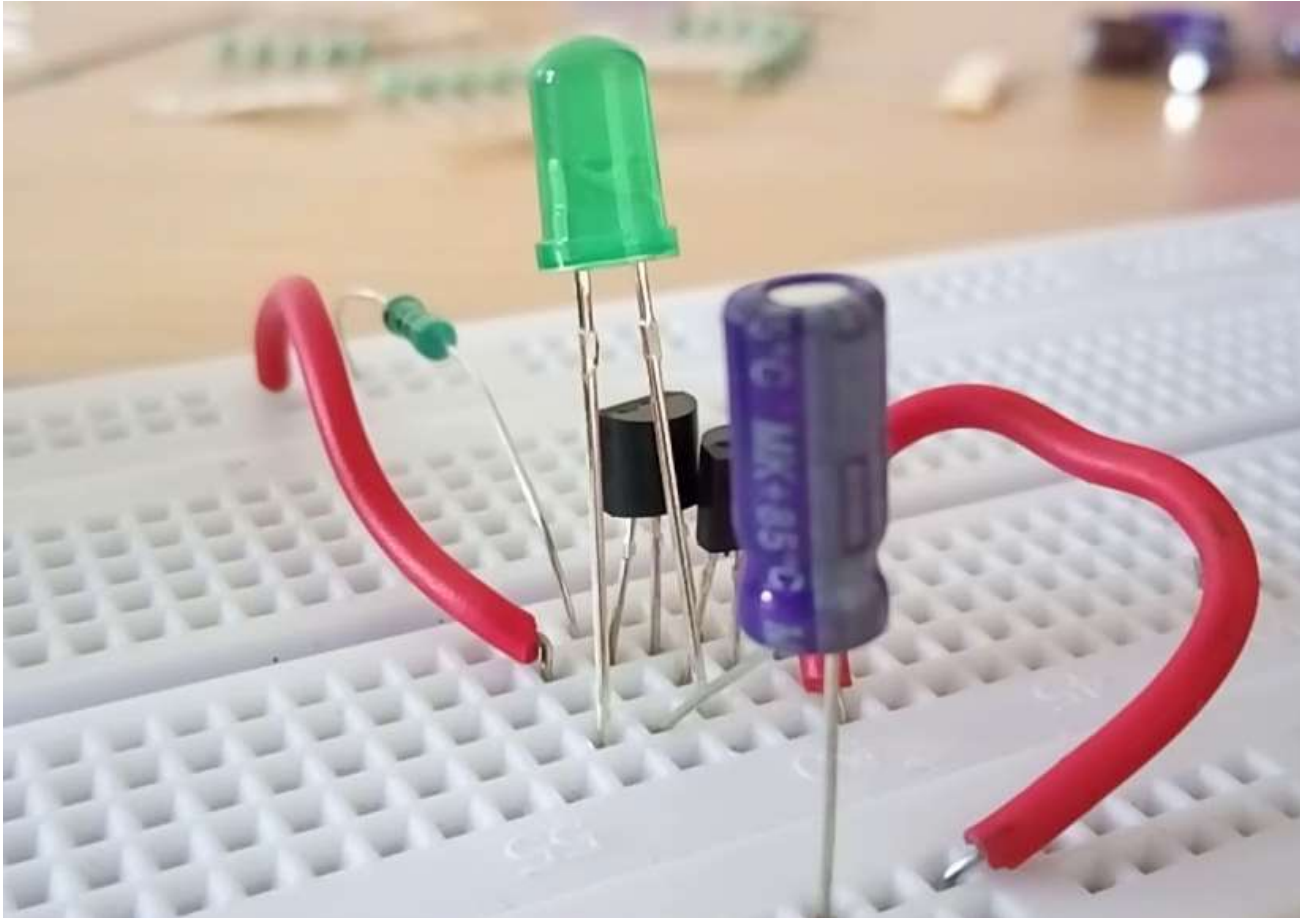


# LED blinking through Transistor

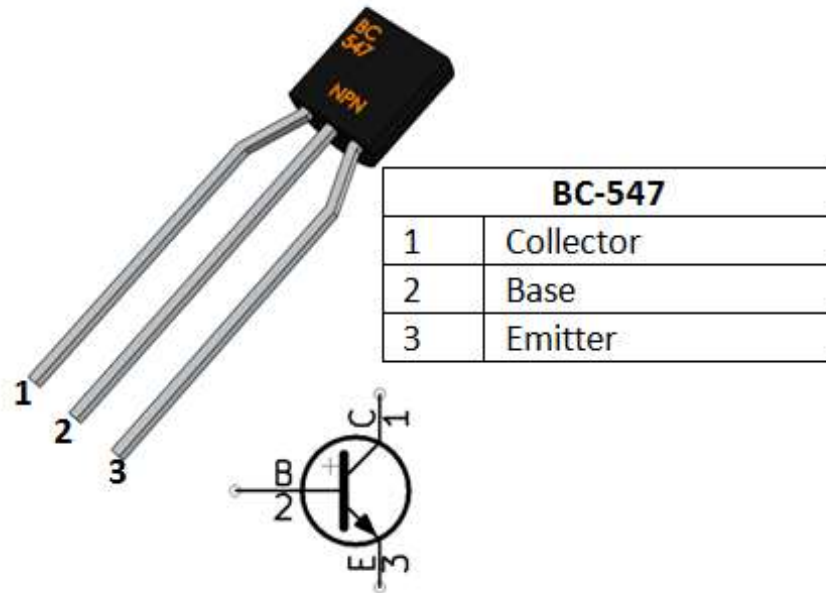


# About project

Blinking two LEDs using Transistors. This is a very simple project. It will flash an ordinary 3mm or 5mm (1/8" or 1/4") LED at high speed. The circuit for blinking an LED using transistors is called an Astable Multivibrator.

# BC547

**BC547 is a NPN transistor** hence the collector and emitter will be left open (Reverse biased) when the base pin is held at ground and will be closed (Forward biased) when a signal is provided to base pin.



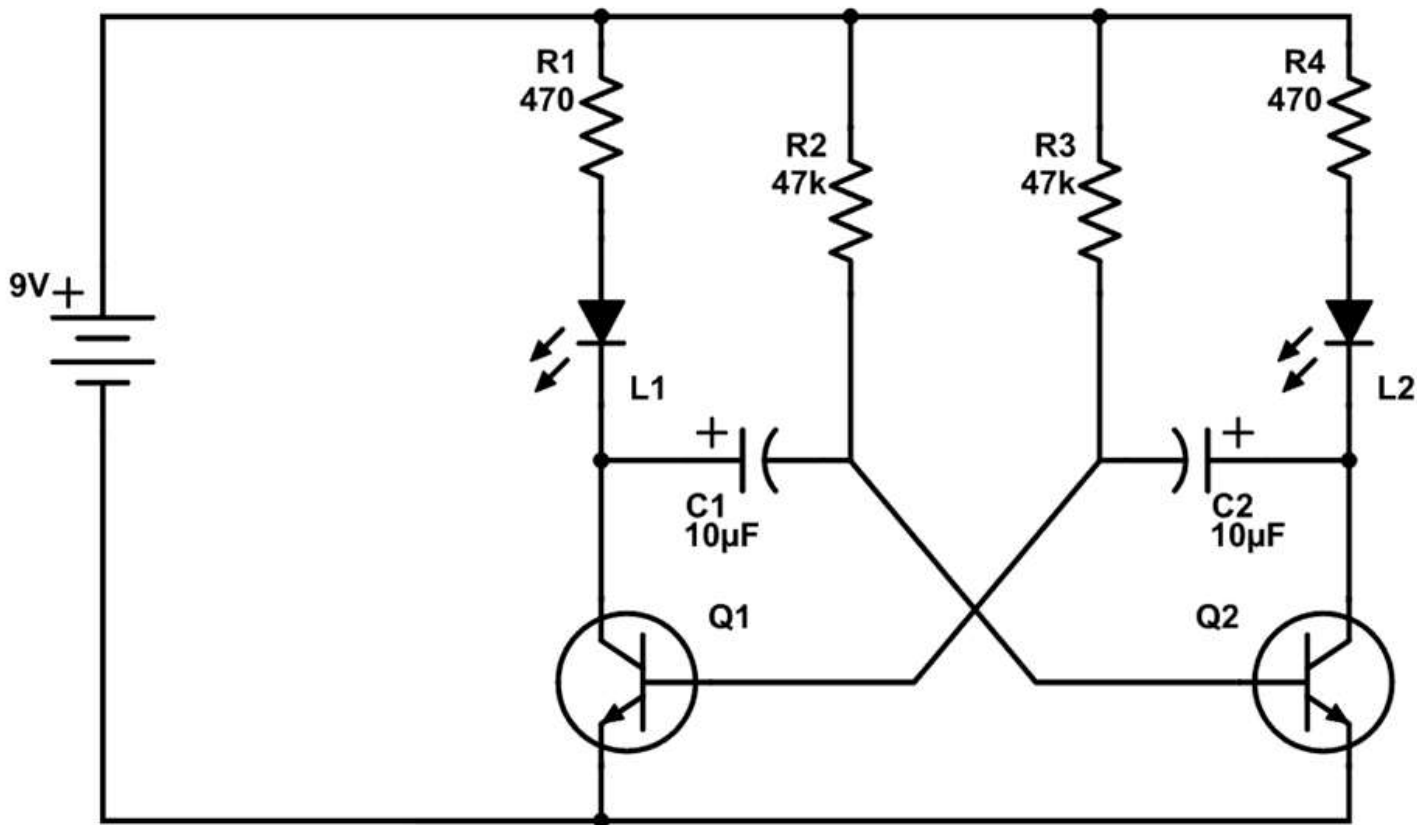
# Working of project

- This project is on how to make a simple blinking LED circuit using transistors on a breadboard. Changing the blinking rate is also possible by changing the value of capacitor used(Use 100micro farad instead of 10 micro farad).
- Two capacitors C1 and C2 will alternate between being charged and discharged and thereby turning the transistors ON and OFF.
- When a transistor is ON, it allows current to flow through it so that the LED above it will light up.

# Components Required

- Two BC547 Transistor
- Two 47k & Two 470 Ohm Resistors
- Two 10uF Capacitors
- Two LEDs
- One Breadboard
- One +9 Volt Battery
- One Battery Cap
- Connecting Wires

# Connection Diagram



**Project Link : <https://youtu.be/aURlqamDJpE>**