

# CIRCUIT COMPONENTS

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LED



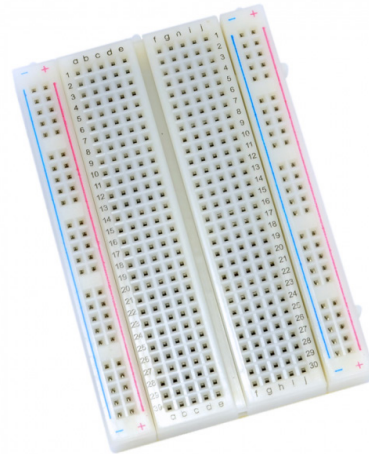
Resistor



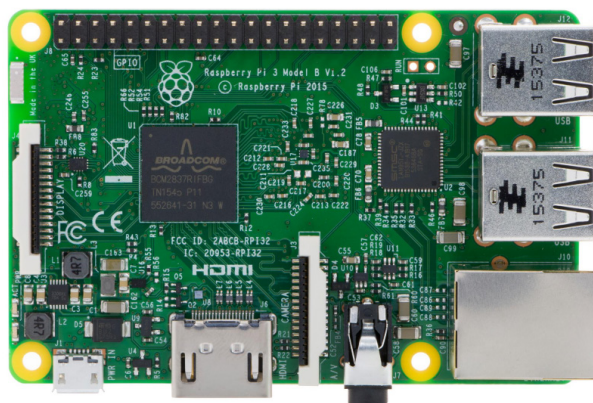
Switch



Jumper Wire/Cables

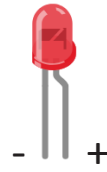
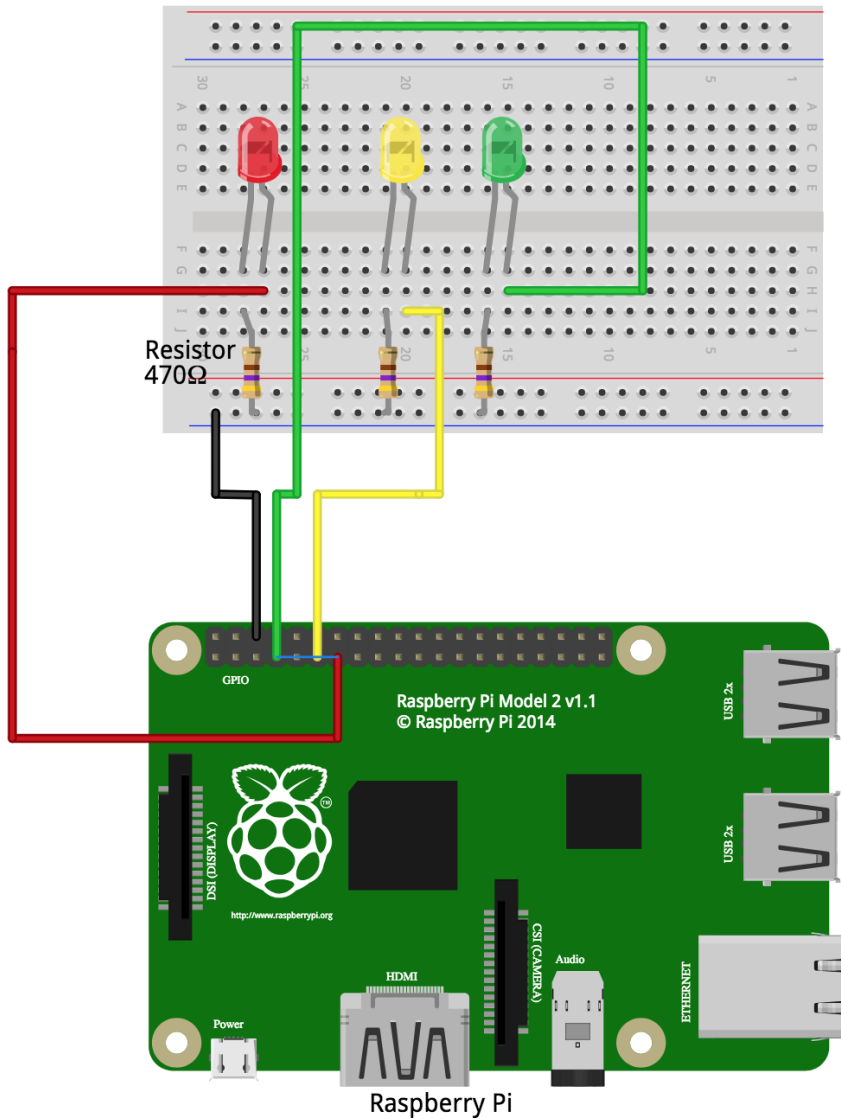


Breadboard



Raspberry Pi

## CONNECTING LEDS TO BREADBOARD AND RASPBERRY PI



Longer leg of the LED is (+)

Shorter leg is (-)

### LED to GPIO MAPPING

**GREEN LED**

GPIO 4

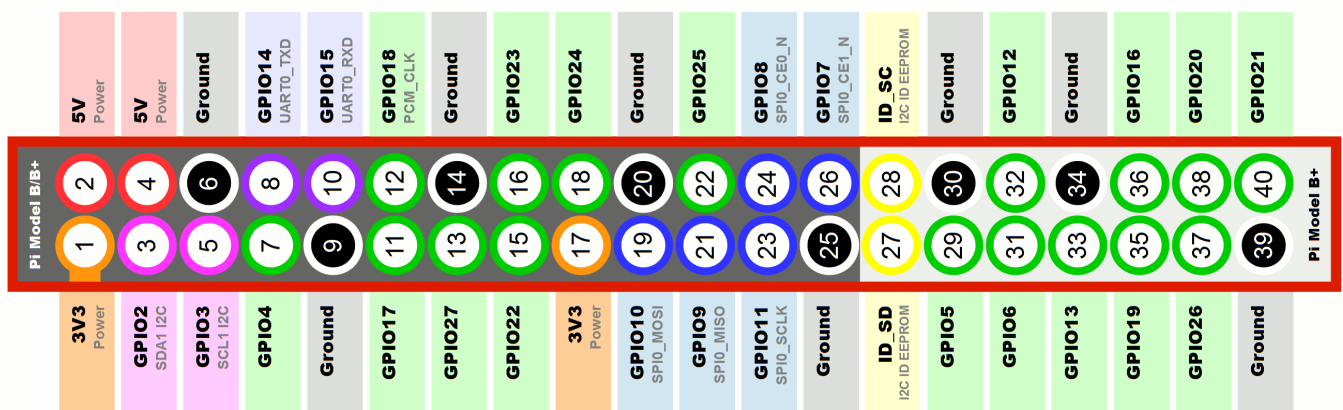
**YELLOW LED**

GPIO 17

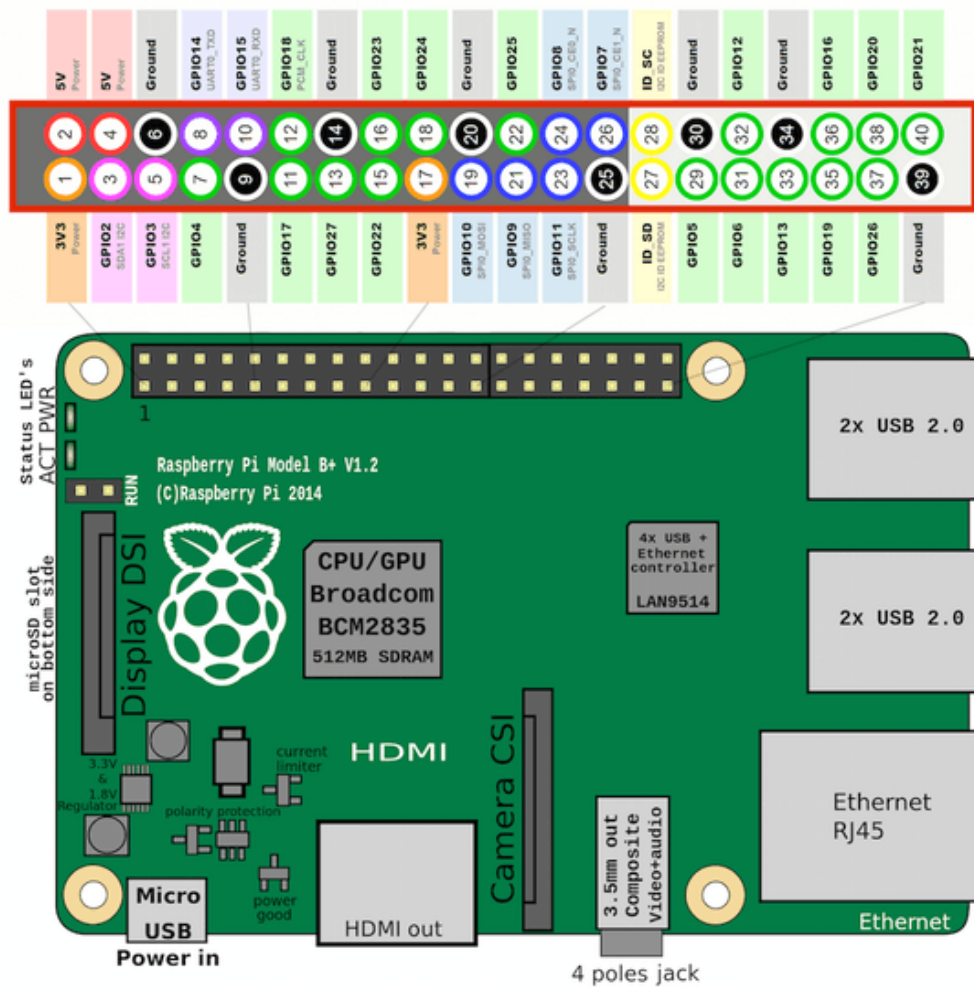
**RED LED**

GPIO 27

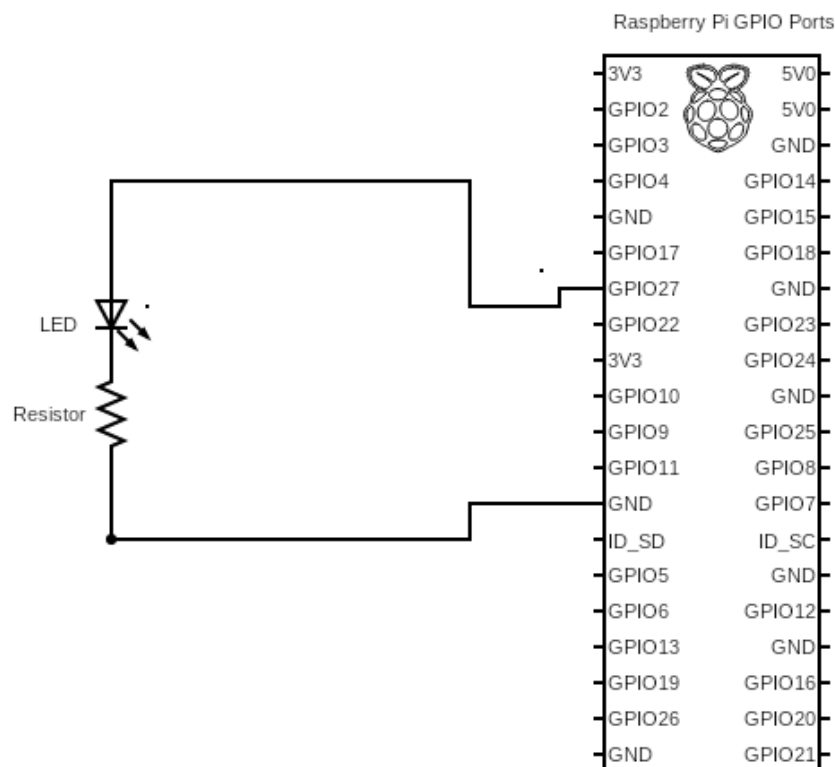
## GPIO PORT MAPPINGS



## RASPBERRY PI TO GPIO MAPPING



CIRCUIT DIAGRAM



## BREADBOARD DESIGN

The 5 holes in each horizontal row are connected electrically through metal strips inside the breadboard.

The middle row breaks the connection between the two sides of the board.

The vertical strips that run the length of the breadboard are electrically connected. The strips are usually used for power and ground connections.

