



## SoSLUG - GPIO Starter Kit Worksheet - 1 Traffic light

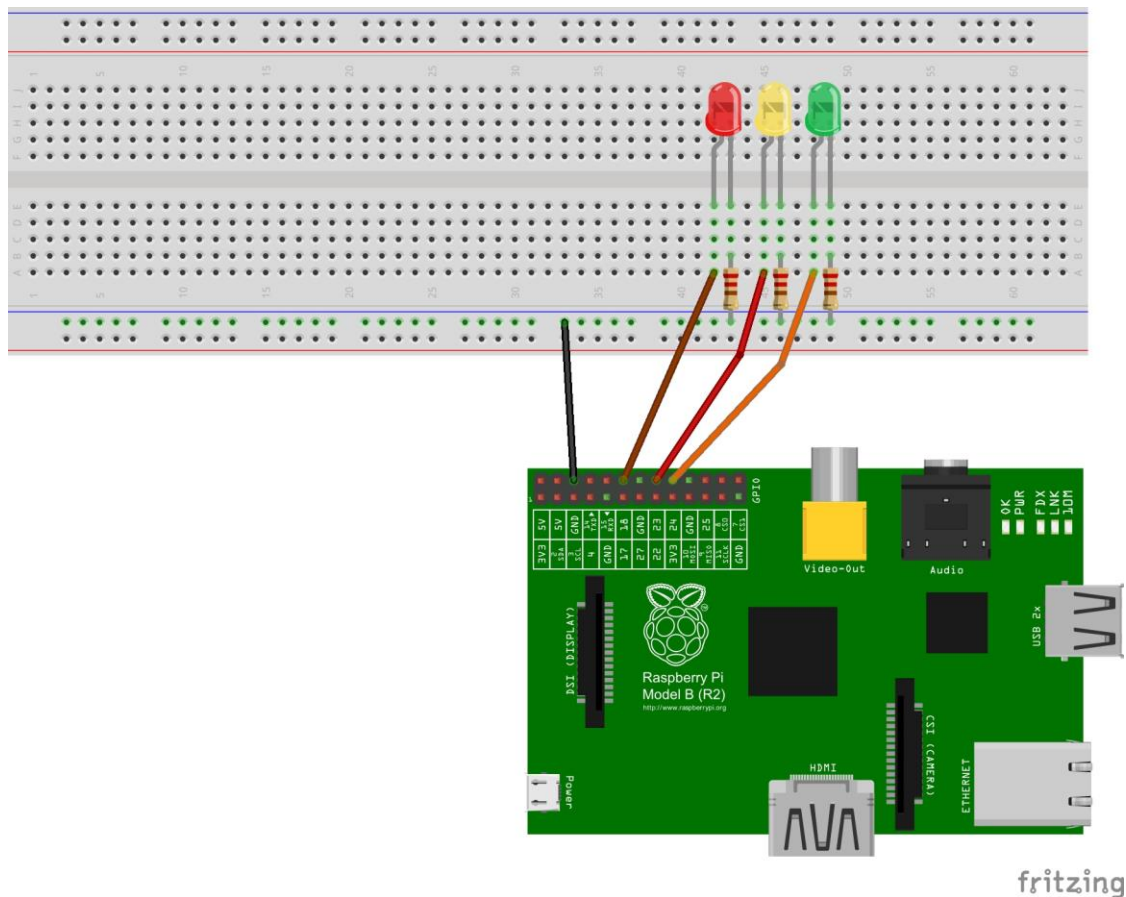
Southend-on-Sea Linux  
Users Group (SoSLUG)  
<http://www.soslug.org/>

### OBJECTIVE

In this project we are going to design a single traffic light set. There needs to be a 2 seconds wait between each step of the signals. The signals are Amber = get ready to stop, Red = Stop, Red + Amber = get ready to go, Green = Go.

### HARDWARE

For this project we will need one of each Red, Yellow and Green LED's and three 220 $\Omega$  resistors arranged in a group to represent the traffic lights. Arrange the components as shown here.



### DEVELOPMENT

Now that you have a working version that goes through 10 cycles, see if you can make the program work indefinitely.