Project 3

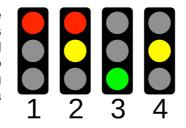
Traffic Lights

## Project 3 - Traffic Lights

We are now going to create a set of UK traffic lights that will change from green to red, via amber, and

back again, after a set length of time using the 4-state system. This project could be used on a model railway to make a set of working traffic lights or for a child's toy town.

What you will need



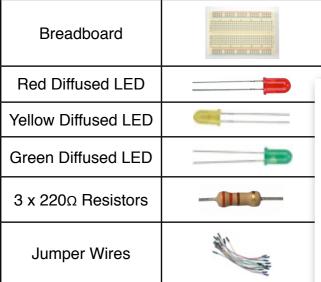
This time we have connected 3 LED's with the Anode of each one going to Digital Pins 8, 9 and 10, via a  $220\Omega$  resistor each.

We have taken a jumper wire from Ground to the Ground rail at the top of the breadboard and a ground wire goes from the Cathode leg of each LED to the common ground rail.

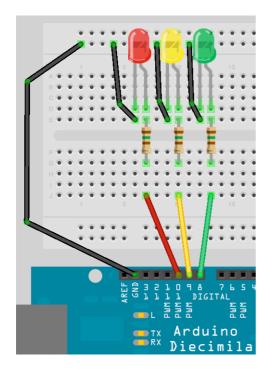
## Enter the code

Enter the following code, check it and upload.

If you've read up on Projects 1 & 2 then this code will be self explanatory as will the hardware.



## Connect it up





In the next project, we are going add to this project by including a set of pedestrian lights and adding a push button to make the lights interactive.