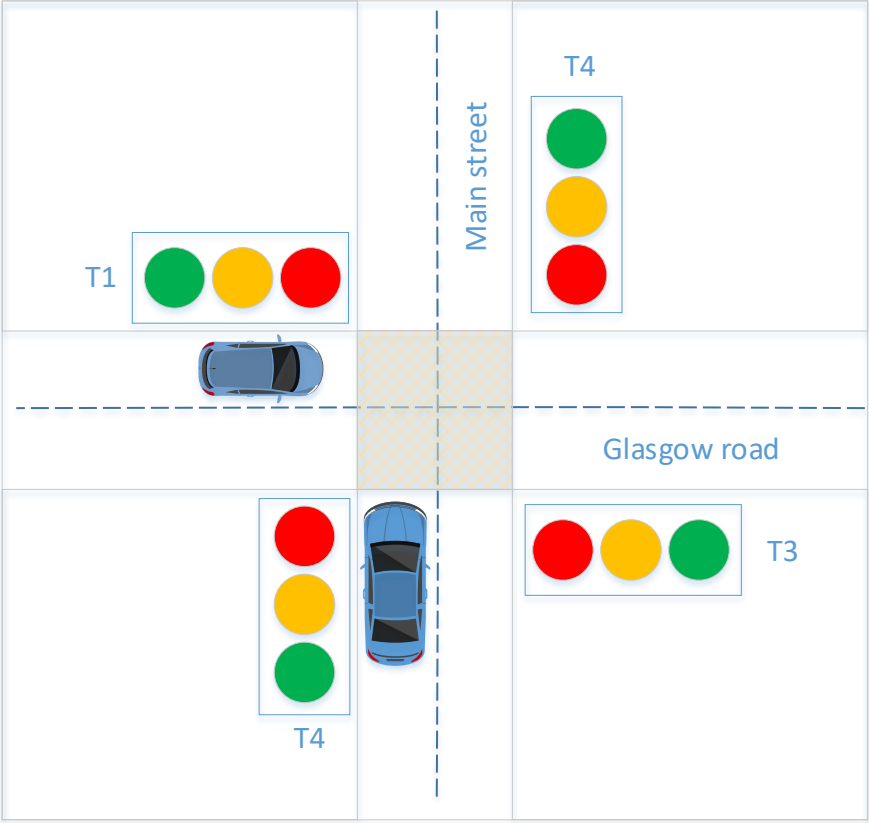
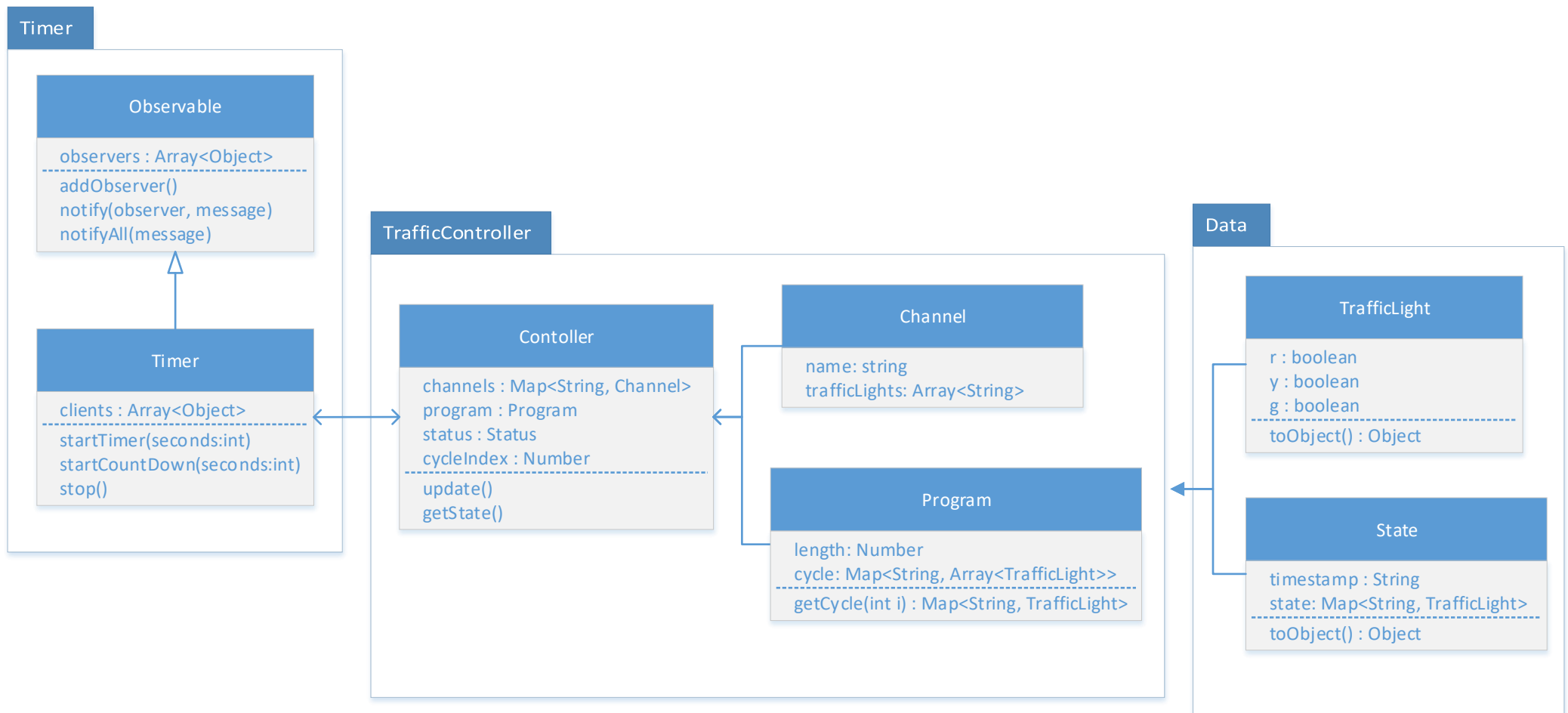


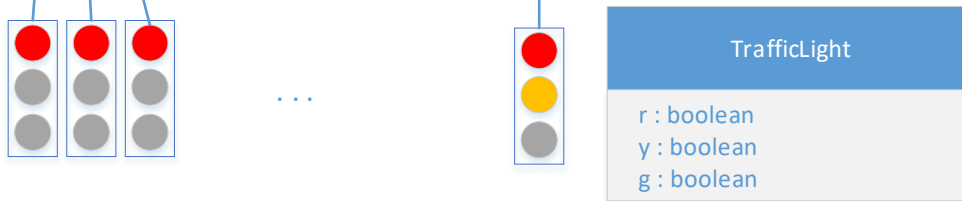
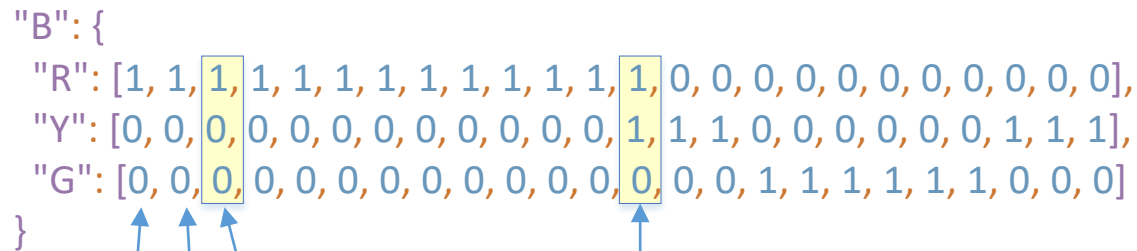
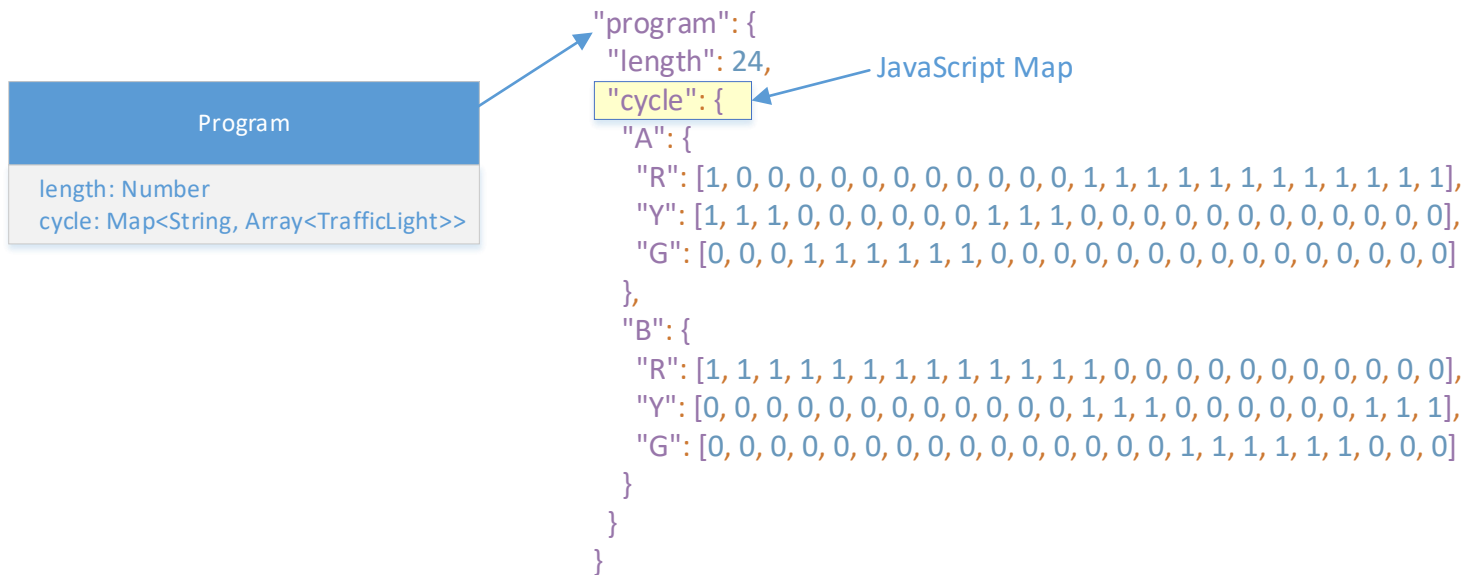
Logical Diagram







UML Class Diagram



## Traffic Lights config.json

```
{
  "channels": [
    {
      "A": {
        "name": "Glasgow Road",
        "trafficLights": ["T1", "T3"]
      },
    },
    {
      "B": {
        "name": "Main Street",
        "trafficLights": ["T2", "T4"]
      }
    }
  ],
  "program": {
    "length": 1,
    "cycle": {
      "A": {
        "R": [1],
        "Y": [1],
        "G": [0]
      },
      "B": {
        "R": [1],
        "Y": [0],
        "G": [0]
      }
    }
  }
}
```

## Response example from GET /api/traffic-lights

```
{
  "timestamp": "2022-02-15 11:10:55",
  "state": {
    "T1": {
      "R": 1,
      "Y": 0,
      "G": 0
    },
    "T2": {
      "R": 1,
      "Y": 0,
      "G": 0
    },
    "T3": {
      "R": 1,
      "Y": 0,
      "G": 0
    },
    "T4": {
      "R": 1,
      "Y": 0,
      "G": 0
    }
  }
}
```