

# CONCURRENT SYSTEM DESIGN (SE 3BB4) TUTORIAL 5

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October 21, 2015

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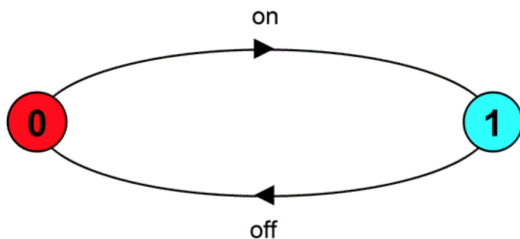
# Implement an FSP model in Java

Source code: <https://goo.gl/99TSIR>

# Implement an FSP model in Java

## 1. Light switch

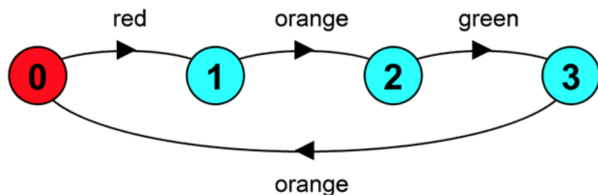
**SWITCH = (on->off->SWITCH) .**



# Implement an FSP model in Java

## 2. Traffic Light

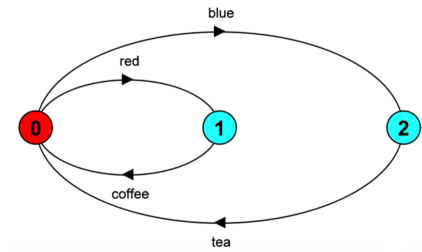
```
TRAFFICLIGHT = (red->orange->green->orange  
-> TRAFFICLIGHT) .
```



# Implement an FSP model in Java

## 3. Drink

```
DRINKS = (red->coffee->DRINKS  
|blue->tea->DRINKS  
).
```



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# Introduction to AWT

- ▶ AWT: Abstract Window Toolkit.
- ▶ A Libaray of containers and components for creating window form application.



# Introduction to AWT

1. Create a simple Frame application.
2. Add event handler to close the frame application
3. Override the paint method.
  - ▶ Draw lines
  - ▶ Draw circles (border style and color)
4. Handle mouse click event

# Some advance methods

- ▶ `mouseDragged`
- ▶ `mouseMoved`
- ▶ `g2d.drawImage`
- ▶ `g2d.drawString`
- ▶ `g2d.setStroke`
- ▶ `Ellipse2D.Double`

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# Quiz

Take the screenshot of your "Java AWT Demo" window and upload it to avenue.

