LINE FOLLOWING

Theory of Operation

Motor Actions

turn **RIGHT**   turn **LEFT**   turn **RIGHT**   turn **LEFT**   turn **RIGHT**   turn **LEFT**   turn **RIGHT**   turn **LEFT**

Light sensor

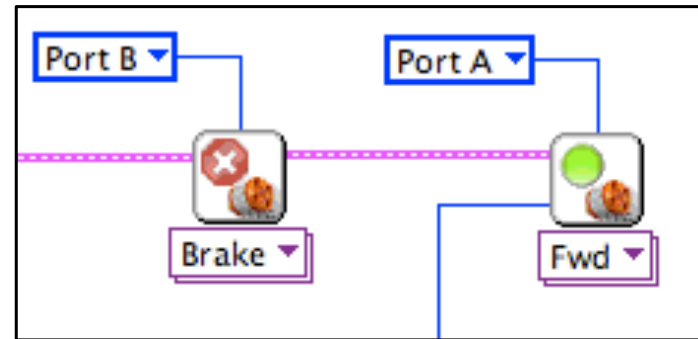**dark**   light   **dark**   light   **dark**   light   **dark**

RoboJackets

How Do We Do This?

1. If the light sensor is "light"
   - Turn Right
2. Else if the light sensor is "dark"
   - Turn Left

Turning

The left motor is A and the right motor is B
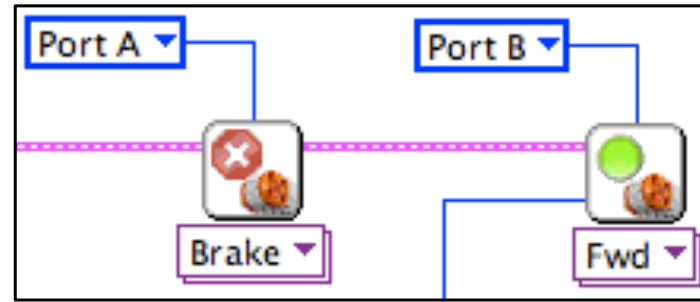

Which way does this turn?

Turning

The left motor is A and the right motor is B

Which way does this turn?

What does "dark" mean?
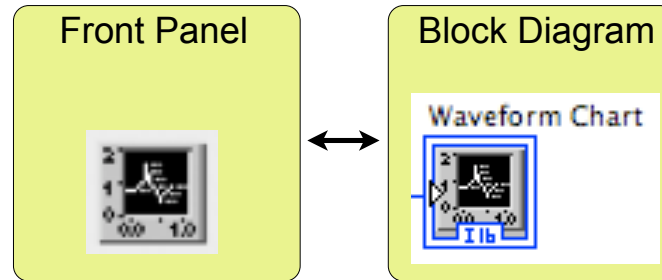
Do an experiment

in LabVIEW

What does "dark" mean?

What does "dark" mean?
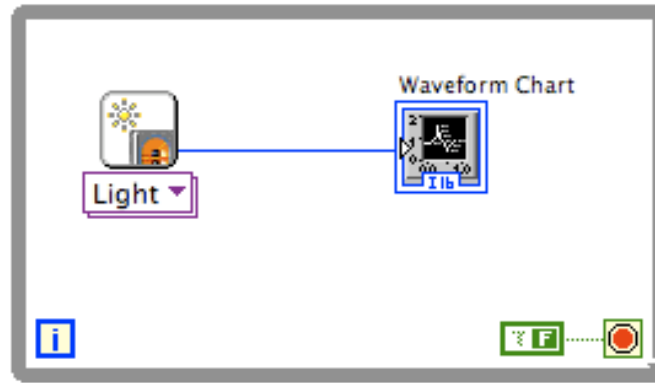
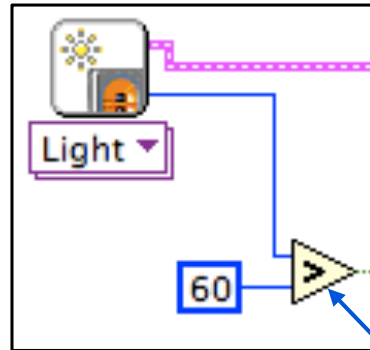| Front Panel	Block Diagram
	Waveform Chart

What does "dark" mean?

What does "dark" mean?

Lots of Noise

pick a threshold
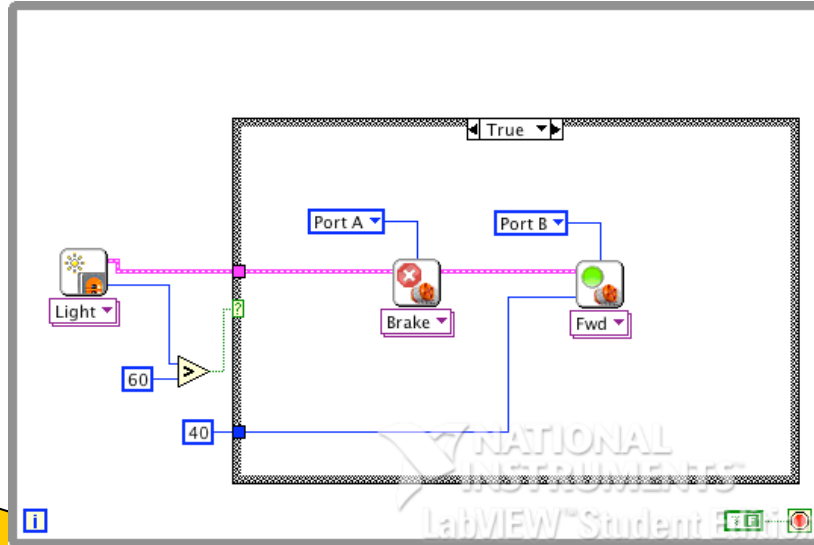
Thresholding

If the light is **greater than** 60

Emit **true**

Greater than

Putting it all Together

Putting it all Together