

## CMSC 143: Introduction to Object-Oriented Programming with Robots

### Assignment 3: Scribbler Status

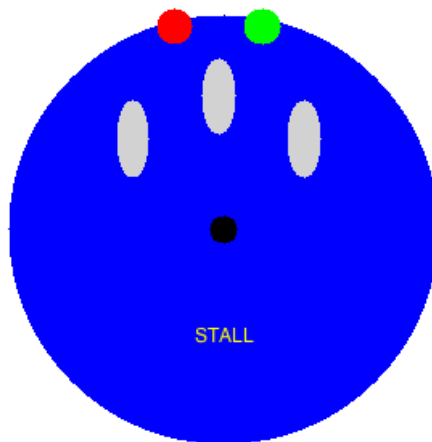
Due March 14, 2011

The third assignment asks you to create a live visualization of your scribbler, similar to the online robots lab. Your program should continually convey the status of your scribbler using the graphics objects recently introduced in class. At a minimum, you should visualize the following aspects of your robot:

- Name
- Battery
- Three light sensors
- Two infrared sensors

Be creative about how you visualize the robot's status, consider using various shapes, sizes, colors, or text to convey the information. Here is an example that uses color to indicate the level of the light sensors (varying between black and white), red and green to convey the value of the infrared obstacle detectors, a center circle which visualizes the battery value (it's size is proportional to the battery level) and text to indicate the robot's name and state of the stall sensor.

#### Elmer



#### Learning Objectives

- Use graphics objects
- Visualize data

#### Deliverable

Submit an electronic copy of your program via moodle. Please include a a discussion about your design in a comment at the top of the file. It should be named: **cmsc143\_scribbler\_status\_NAME.py**.