CMSC 143: Introduction to Object-Oriented Programming with Robots
Assignment 3: Online Robots
Due March 19, 2010

Online robots like the telegarden[1] combine the internet with robotics to provide telepresence. This assignment asks you to build a webpage describing the state of your robot – a robot status panel.

You will write a python program that generates HyperText Markup Language (HTML) code which you can then upload to a webserver or look at locally in your web browser. You encouraged to post the resulting HTML file to your student web space on Bard's student webserver [2].

First, you should read the first few HTML tutorials provided by the w3schools.com [3]. HTML is a markup language, meaning that along with the actual content (the data) the text file also alo contains annontations of the content (meta-data). In HTML, the annotations, or tags, are predetermined commands that describe the structure of the document and also how it should be displayed (e.g. `body`, `a`, `img`). The HTML tags are enclosed in angle brackets and the tags are often found in open/close pairs.

Guidelines for the webpage:

1. Robot: You must show the robot's name and some of the robot's sensor values (light, infrared, battery).

2. HTML: You must use a header, a link, an image, a list, a table.

Beyond those specific guidelines, you should be as creative as possible. You might:

1. Provide a graph of the robot's sensors or battery voltage for some amount of time.

2. Links to some of your programs you have created.

Learning Objectives

- Work with File I/O
- Use HTML

Deliverables

Submit an electronic copy of your program and your webpage via moodle using files named:

cmsc143_webpage_FIRSTNAME_LASTNAME.py.
cmsc143_webpage_FIRSTNAME_LASTNAME.html

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[1] http://www.usc.edu/dept/garden/
[2] http://inside.bard.edu/computing/webpublish/
[3] http://www.w3schools.com/html/html_intro.asp