"Other" Assignment #3

We depend on our color perception to perform many tasks. We use it to decide if a piece of fruit is ripe or not, we use it to know when to stop or to go at a stop-light, etc. Therefore, it is important for us to understand how color perception works.

Part 1:

Read the information presented at <http://www.firelily.com/opinions/color.html>. This will describe how color deficiencies work.

Based on the information presented there, and your knowledge of color vision theories, describe how color deficiencies relate to the trichromatic theory of color vision.

Hint: use the figure below to figure out what "long", "medium" and "short" wavelength cones must be.

![Color Perception Diagram](image)

Part 2:

Go to <http://www.geocities.com/Heartland/8833/coloreye.html> and do the color vision test that is presented there. If you cannot correctly answer each test, then you should be further checked for color vision problems (the answers are at the bottom of the page).

Approximate length: 1 – 2 pages.

Due date: 2/27/03