

Computer Science 411/611
Virtual Reality Systems
Fall 2004
Homework 2 – Color Dance

Due: Thursday, 9/30/2004

Overview

For this project, you will modify a small program in C to learn more about graphics using XWindows.

Description

Given the zurburt program we discussed in class (and available on the class web page), modify the program so that each of the first four menu choices offers a different color name, and the selection of that menu option causes a solid fill of the display window with that color. The fifth menu choice (labeled “zurburt”) should produce either:

- (computer science) a continuously updated display of randomly colored rectangles in random locations within the display window. The rectangles should also be randomly sized, but not larger than 100 pixels in either direction. The update should continue until another menu choice or ‘q’ is selected (see XEventsQueued), at which point the display should stop (but not exit).
- (DPA) an elegant variation of the work of Piet Mondrian. Check books on Art History or on the internet for sample works.

Pressing key ‘q’ while the cursor is in the menu window should always cause an exit. Multiple ‘q’s should not be necessary.

Submission Requirements

You should submit the following:

- a hardcopy of your program (with your name, date, and compile line in a comment section at the beginning of your code)
- a sheet describing any special features of your project
- an electronic copy of your program (preferably tar’ed and gzip’ed) sent to me at tadavis@vr.clemson.edu