

**Computer Science 411/611**  
**Virtual Reality Systems**  
**Fall 2003**  
**Homework 1 – Color Dance**

**Due: Thursday, 9/25/2003**

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.