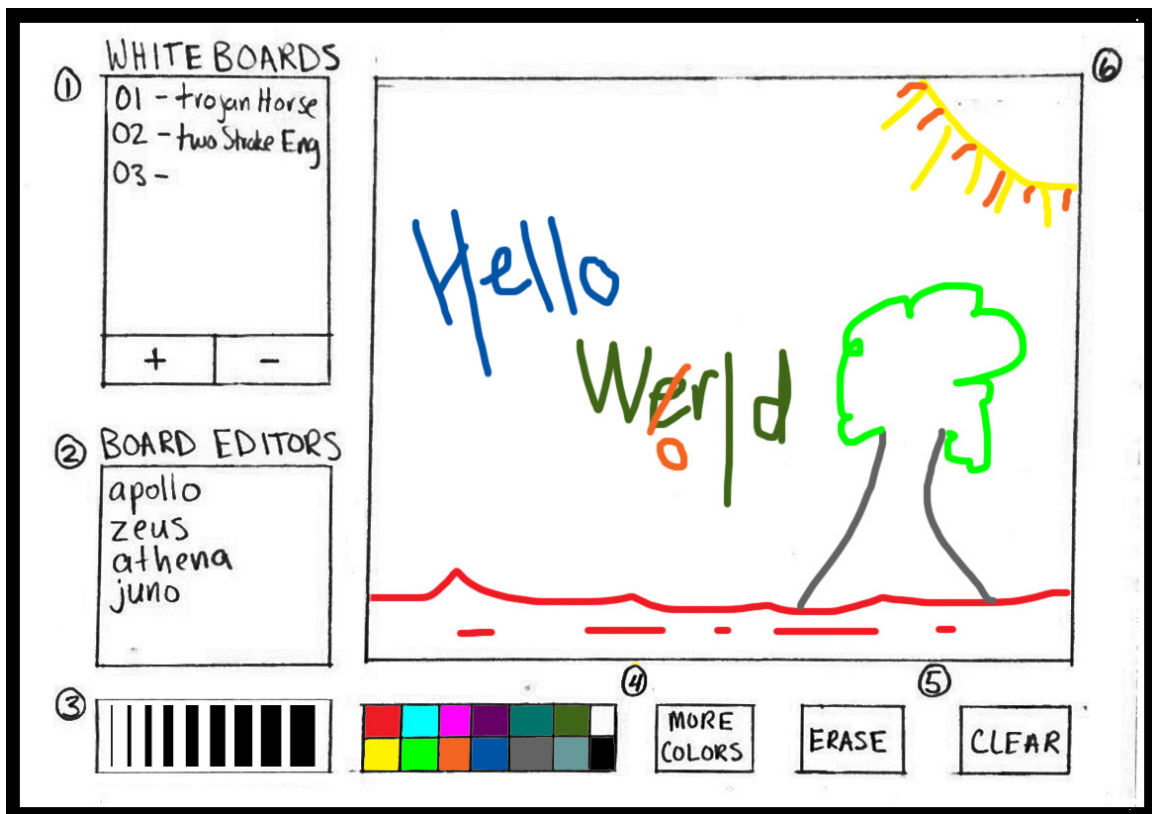


Design Milestone

ANDRE ABOULIAN, CATHLEEN GENDRON, & JON BEAULIEU

6.005 Software Construction - Fall 2013 - Project 2: "Collaborative Whiteboard"

I. USER FUNCTIONALITY OVERVIEW



I. Whiteboard Selector

The board selector in the left pane includes a list of all current whiteboards. Each line will represent a different board, which will be numbered sequentially and named by the user. Upon creation of a new board, users will be prompted to enter a name, which will be permanently stored. Clicking on a board in the list will download the board from the server, overwriting the local copy if one exists, and display the board in the canvas window.

II. Board Editors

Displays a list of users, including the viewer, who are currently modifying the selected board. This list will be updated as users enter and exit this board.

III. Thickness Selector

This tool allows the user to select a brush/eraser thickness for use on the whiteboard.

IV. Color Selector

The main color palette displays a grid of colors from which the user can choose to paint with. Clicking the "more colors" button will open a new window with a larger selection of colors (JColorChooser).

V. Erasing Tools

The erase button will allow the user to toggle between erasing and painting. "Erasing" will be defined as drawing with a white selection. Toggling back to painting will preserve users' previous color choice.

VI. Whiteboard Window

Displays the status of the currently selected whiteboard. The whiteboard be real-time interactive to allow users to collaborate simultaneously.

II. PROTOCOL