

COSC 231 FALL 2013
Distributed: 8/8/2013

Program Project #3
Due: 10/25/2013 (Friday) 5pm.

Using HTML CSS and Javascript, create a web drawing application.

Give the user a 50 X 50 drawing surface. Each element is 10 X 10 pixels. The drawing area should be surrounded with a border.

Give the user a palette of 10 colors. The “pen” is an imaginary pen in the position given by the cursor. The user sets the color of the ‘pen’ by clicking on a color in the palette.

When the pen is up, there is no line drawn. When the pen is down, the current color of the pen is ‘transferred’ to the drawing surface.

Display the state of the pen near the palette, appropriately labeled. The state of the pen has two pieces of information: the current pen color, the current pen position (up or down). You can choose the style of display of state of the pen.

The page will initialize to a blank, white drawing surface; the default “pen” color is BLACK, and pen position is up.

When the user clicks anywhere on the page, except on a color in the palette, the “pen” toggles between pen up and pen down. When the pen, in down position, mouses over the drawing surface, the element the pen is over will change to the current pen color. When the pen is in up position, mousing over the drawing surfaces causes no change.

Important!

Do not use any deprecated HTML (e.g., <center>,)

You CANNOT cannabilize any web code for this. You can use code from class lecture, from the Javascript book, and from w3schools – none other.

You must work independently.

You must document the code and use good, readable style.

By 5pm on Friday, 10/25, email Professor Haynes and Bharat a link to your working project. At the next class period, bring hardcopy of your code (HTML, CSS, Javascript).

CSS and Javascript may be internal, external or inline.

Grade based on:

Meets specs: 50%

Style: 25%

Elegance: 25% (code and user interface design)

Extra credit will be given for additional functionality.