

CTIS 255

Final - Fall'14

120 Mins

Each question has a corresponding video that shows what you are supposed to do. Watch the video along with the description of each question in this paper.

Q1.(15Pts) You will implement a DHTML page that consists of two objects; a button, and a paragraph. The content of the paragraph is "Text" and its initial size is 16px. You will toggle font size of the text between 16px and 30px on each click of the button. Watch **q1.mp4** video.

Partial : *If you click the button, it changes its size to 30px but not toggling (reverting to its normal size : 16px after another click), you will get 5Pts.*

Q2.(20Pts) The page consists of two objects: a button , and a table with three cells. You will randomly select a cell among three cells of the table on each click of the button, and it shows an "X" character within the selected cell. **CSS properties:** each cell has a 1px solid black border, and font-size is 30px, padding is 5px, and contents are centered, font-family of the text is arial. The space between borders is 10px. Watch **q2.mp4** video.

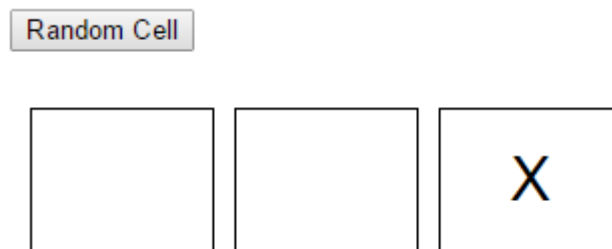


Figure 1: Layout of the page.

Partial : *HTML and CSS part (5Pts), RandomCell is clicked but it marks "X" for a specific cell, not a random cell. (5Pts)*

Q3. (25Pts) You will implement an animated menu. The page has 3 Div objects positioned using "absolute" method, one under another, Fig1. Their contents are 1 to 3 from top to bottom. When the user clicks on any item, it extends, another click for the extended item gets smaller (slides to the left), Fig2. However, while the clicked item is sliding to the right side, extended menu items slides to the left side. In other words, only one menu item is in an extended state at a time. Check out **q3.mp4** video.



Figure 1: Initial page view

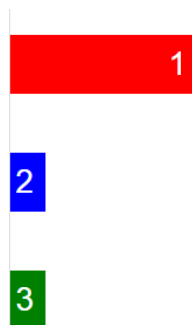


Figure 2: Click on an item (1 in this case)

Initial CSS Properties of Div objects: widths are 150px, heights are 50px, font-size is 28px and line height is 50px, font family is arial, color is white, right padding is 10px, the numbers are aligned at the right side within div objects. Place 3 div objects approximately. The background colors are red, blue and green respectively. Use jQuery animate function for the sliding effects.

Partial: *HTML and CSS (5Pts), Click on an item and it extends/slides (5Pts), Click on an extended item slides to the right side (5Pts)*

Q4.(40Pts) The page has 5 div objects, one of them is the container of other 4 div objects and a list box containing 4 items representing different images : Day (day.jpg), Night (night.jpg), Trinket (trinket.jpg) and Alley (alley.jpg), Fig 1. Each jpeg has a (width)170 x (height)237 pixel dimension. Each div object has a 1px solid border with any color of your choice. When you move mouse over to any 4 inner Div object, their background color changes slightly (hover effect). When the user clicks on any four div object, the selected image in the listbox starts to animate from clicked mouse position to the upper left corner of the clicked div object, Fig2. During the animation, both the position and the opacity of the image change. After all div object are filled with an image, all images start to fade out ONE by ONE from left to right. Use 500 milliseconds fade out period for each image. After assigning an image to the div object, you can not click it any more.

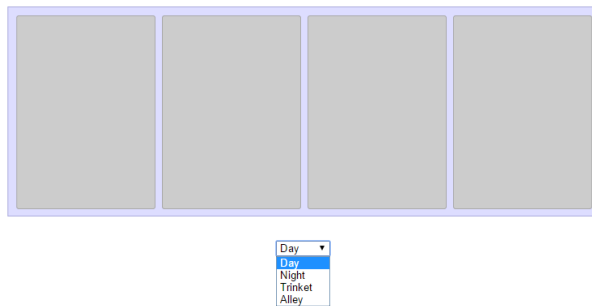


Figure 1: Initial view of the page.

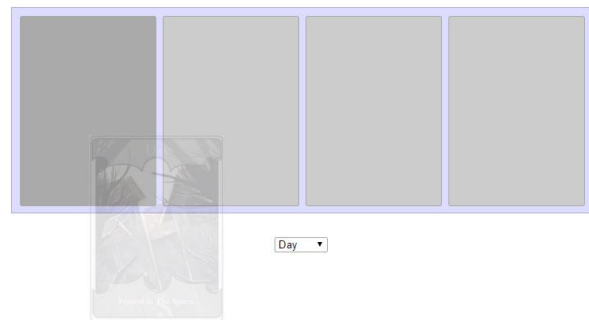


Figure 2: Click on the first Div object.

You have to calculate the width, height, position and other CSS properties. They don't have to be exactly the same with the ones in the video. You can use approximate values.

Watch **q4.mp4** video.

Partial : Initial page HTML and CSS (5Pts), Hover effect on inner Divs (5Pts), Click on an inner Div object and selected image appears instantly without animation (10Pts), with animation (20Pts), Fade out one by one (10Pts).