

## Lab 2 Online Researches and Web Design

(Due by: 11:55pm, 4/30/Monday at Canvas)

Your name:	Grade:
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### Important notice about this lab:

- The lab consists of **two** different portions:
  - **(75 points)** On-line searches/researches for your “Lab/Presentation Assignment” (see the course syllabus).
  - **(125 points)** Simple Web Design (related with Javascript, HTML, and HCI).
    - You may get **up-to 75 bonus** points for your excellent Web design.
    - (Making your homepage “fancy”, “showy” (... over-using pictures) does **not** necessarily get bonus. A succinct but informative (with the right use of pictures and advanced HTML/Javascript functions) **does**.)
  - (This lab and Lab 1 constitute the “Lab/Presentation” part of the coursework defined in the syllabus.)
- **Submit** your work at Canvas (<https://salemstate.instructure.com/login>).
  - Create a folder with a name like “CSC215\_YourName”;
  - Create **two (2)** subfolders for the two portions of this assignment;
  - Compress the folder (with all your solutions within) into a **single zip file** and submit it at Canvas.

### Part one: On-line searches/researches

- Find **3** academic articles/papers in the area of Computer Science/Engineering
  - (You may use the following key words/phrases to narrow your searching for journals, magazines, paper titles: Interactions, HCI (or CHI), Programming, Programming Languages, Graphics, Computer Graphics, Games, Interacting, Multimedia, Communications, Internet, Network, Robotics, Visual, Embedded, Computer Vision, Software,...)
  - You may look for papers through the following link:
    - <http://www.salemstate.edu/library/3826.php>
- **Submissions:** for *each* of the papers, you need to provide:
  - Its journal/magazine title, volume/issue number, publication date,
  - The author(s)’s names, and
  - Brief description of the paper *in your own words* in one paragraph (3 lines to half a page).

## Part two: Simple Web/Homepage Design

Use lecture/web resources (from the course website) to prepare a simple web biography about yourself. You should have a title, two section headings, two short paragraphs, two radio buttons, and image rollover.

- The first section heading and paragraph will tell us something about where you are from.
- The second will tell us something about your educational background (from elementary, middle, and/or high ... college schools).
- The two radio buttons will provide fun facts.
- Using at least 2 images for rollover (a simple example can be found at <http://cs.salemstate.edu/~byi/2012Spring/CSC215/resources/Javascript4Beginners/index.html>)

Sample HTML and JavaScript is provided in the lecture notes. Use it to prepare your HTML files with an editor such as Notepad, WordPad, ... or Kompozer ... Your instructor will test your code using Mozilla Firefox.

- This lab is *not only about the use of Javascript and HTML, but also related to the HCI/User-Interface design issues*. So your homepage should look *nice* for you to get a higher score for this lab!

A sample outline is given below. Yours should provide a few more details and actually work.

### About Beifang

#### Origins

Beifang was born in Hubei Province (State), People's Republic of China and he went to an engineering college in China when he was 16 years old and weighted less than 90 pounds. He came to the US in 2000 after he had been a computer engineer for about 14 years.

#### Education

- **Ph. D.**, Computer Science and Engineering, 05/2006, University of Nevada, Reno.
- **M.S.**, Computer Engineering, 08/2003, University of Nevada, Reno.
- **M.S.**, Computer Science and Engineering, 10/1986, Southwest Jiaotong University, China.
- **B.S.**, Automation (Computer Application), 08/1983, Southwest Jiaotong University, China.

#### Teaching Experience

- 09/2008—present: Salem State University, Computer Science Department, Assistant Professor.

- 08/2006—08/2008: SUNY-Fredonia, Computer and Information Sciences Department, Visiting Assistant Professor.

Radio 1 – when pressed outputs “I have a very old (about 15 years old) gas-guzzler car.” (and/or an image)

Radio 2 – when pressed outputs “I have a new (about 3 years old) snow blower.” (and/or an image)

Add more features and functions to your homepage for the **bonus points (up to 75 bonus points—to get the bonus points, your homepage should look like the one done by a professional web designer)**. The following are only for your reference (you are welcome to add other features.):

- Textboxes,
- Alert boxes/messages,
- Using Javascript IF...WHILE, SWITCH...FOR statements,
- Using Javascript Arrays,
- ....
- (Everything added should be related with the **theme** of your homepage, i.e., you should develop your design following the principle of HCI/UI, focusing on the topics while providing a nice interface to the topic.)