

CS 134 Lab 3

About the exercises

This lab we will be experimenting with forms, JavaScript, and jQuery as we learned in chapters 11, 15, and 16 of the book. We'll have two parts. First we will create a form and build in some automatic validation, second we will walk through the steps required to install a jQuery plug-in for use in a web project.

Part 1 (Forms & Validation):

Create a part1.html document using a standard template for HTML (you can use the list examples on the course website for pointers). In the body, create a mock form for requesting a free t-shirt. Include the following elements:

- Textboxes for Name, e-mail address, phone number, and address, city, and zip code.
- A drop down element for state (feel free to include only a handful of states).
- A set of radio buttons to choose a size (Small, Medium, or Large).
- A textarea prompting the user to explain why they should be sent a free t-shirt.
- A submit button
- A reset button

The target or “action” for the form can go to a dummy page, we won't be interpreting the output here.

Create labels for each of the elements, and associate them with the appropriate input elements.

Use a stylesheet to ensure that all the labels and form elements line up (as we saw in the slides).

Using either HTML5 validation, JavaScript, and/or jQuery (we've seen examples with each), validate that each of the elements has been filled out (use appropriate HTML5 input types e.g. for e-mail and phone number, and patterns as described in the forms chapter to validate phone number and zip code. Provide feedback to the user to let them know what they need to fix if the form fails to validate (we've seen methods to do this with JavaScript, jQuery, and with HTML5 by itself).

Part 2 (jQuery plug-in):

- Produce an image gallery with the jQuery Lightbox plug-in (as we saw in the jQuery and plugins lecture : <http://lokeshdhakar.com/projects/lightbox2/>).
- Include at least 5 images, and set captions for each of them. (remember there are free online utilities that can be used to make Thumbnails if you don't have access to photoshop or a similar graphics utility).

This section is primarily aimed to have you walk through the steps of downloading and implementing a pre-built jQuery plugin. Feel free to explore the examples and options from the author's web-page and implement them into your project. So long as each of the images expands as it should, I'll consider this part of the lab completed.

Grading and submission:

Grading for this assignment will be based primarily on the functionality of the form validation and plugin. As usual though ensure that your HTML and CSS validates appropriately.

You won't be penalized for minor deviations from the instructions or for additional content you may decide to experiment with (so long as you don't dramatically overwrite rules in the above steps).

Submission will be to the Box site, in the lab3 folder, or failing that to my e-mail by the start of class next Wednesday.