

Assignment 4: jQuery Mobile and jQuery UI (full assignment posted on Nov 30)

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Due Dec 18 by 11:59pm **Points** 100 **Submitting** a text entry box, a website url, or a file upload **Available** after Nov 18 at 12am

This assignment is due on December 18, 2015, by 11:59 PM Eastern time. This assignment is worth 25% of your course grade, or 100 points. Please note that since this is the final assignment of the semester, **there are no regrades and no late submissions.**

Create a 2-3 page website about a topic of your choosing. Your topic should be legal, ethical, moral, and safe for work. If you have a question about your topic and its appropriateness, ask!

Part 1: jQuery Mobile (67% of grade)

Create a 2-3 page website using jQuery Mobile. Use the jQuery Mobile definition of "page" for the page count, not the number of HTML documents.

- Create the site using jQuery Mobile pages or dialogs. (Hint: this means there will be one single HTML page, but the navigation will make it seem like 2-3 pages.)
- Use the grid system and make something responsive with custom code (not the built-in breakpoint). Use at least one breakpoint, as defined in a media query. (You may code more if you wish.) This must be applied to at least one of the pages on your site.
- Include at least one button or icon (or both).
- From the jQuery Mobile demo page (<http://demos.jquerymobile.com/1.4.5/> <http://demos.jquerymobile.com/1.4.5/>), make use of at least 2 items that end in "widget". Example: listview widget, navbar widget, popup widget, etc. Not all of these were covered in class. You should be able to read the docs and implement these.
- Create a custom theme for your site using ThemeRoller and make use of it in your site. (You can apply the theme to the whole page or a few elements on your page – your pick.) You should have at least one main theme (i.e. a "c" theme), but if you want to add additional styling elements to more themes (like a "d" or "e" theme), you are welcome to do so.
- Create a form for your site that contains at least 4 distinct field types. (Example: a group of radio buttons, a text field, a select list, etc.) The form does not have to submit. Use proper HTML5 coding and field types for creating the form, as covered in previous lectures. For at least two of the field types, include a jQuery Mobile modification, as demonstrated in the lecture (horizontal display, mini version, etc) or some other modification you find in the documentation.
- Apply at least two of the jQuery Mobile touch events to your page(s) to make something happen. jQuery Mobile events are listed at <http://api.jquerymobile.com/category/events/> <http://api.jquerymobile.com/category/events/>. Some were covered in lecture, and you may use these, or you may use other events listed in the docs.

Part 2: jQuery UI (33% of grade) -- added November 30

Create a separate document or documents using jQuery UI and demonstrating the requirements below. This can be part of your jQuery Mobile site, or it can stand alone as a separate URL.

- You may combine jQuery Mobile and jQuery UI on the same page. However, as noted in the lecture, this may be buggy, so it is recommended that you have a separate jQuery UI document(s) demonstrating the below features.
- You do not have to create a custom jQuery UI download. You may use the default with all of the options.
- Create a custom jQuery UI ThemeRoller theme. This may compliment the jQuery Mobile theme, or it may be totally different.
- Include in the page(s) the following. Interaction/widget/effect groups are taken from the jQuery UI website:
 - ONE INTERACTION: Draggable, droppable, resizable, selectable, sortable. You may use more than one interaction in your site.
 - ONE WIDGET. You may NOT use: Buttons (and other form elements listed under Buttons), Datepicker, Tooltip. You may use more than one widget in your site.
 - ONE EFFECT. You may NOT use: Add class, remove class, show, hide. I recommend investigating Toggle but you may choose any of the other remaining effects. You may use more than one effect in your site.
 - FOR EACH INTERACTION/WIDGET/EFFECT: you will create something new, not demonstrated on the demo page. I want you to do what I did in the video. Using the tooltip, I combined "custom animation" with "track the mouse". It looked ugly, but it was not code that I copied and pasted in whole from the website either. I am looking for a demonstration of understanding that you can read the documentation and write good quality jQuery to form your own interactions/widgets/effects on your site. You should combine at least two aspects in each example. You are welcome to combine more.
 - NO CREDIT GIVEN FOR: Copying/pasting the examples into your work without manipulation, or with only CSS manipulation. Watching the lynda.com videos and using their examples in your homework.

Additional requirements

You may use the same website you used for Assignment 2 or 3, adding these jQuery Mobile or jQuery UI elements to it. This is not a requirement. You may build a new website if you wish. You may use the same content from Assignment 2 or 3 with a new layout -- and given the different approach that jQuery Mobile takes to websites, this is probably the better approach.

Please write your own content for this website. Do not copy content from Wikipedia or some other source. I'd like you to write your own markup from scratch, not copy the markup from some other website and plop it into your document. It's easy to copy markup if you're copying content from the web.

If you need images for your site, you can find many free image websites online. I like <http://www.freeimages.com/> but there are many others. Remember that only .jpg, .png, and .gif images work on the web, and remember that you should resize your images to optimize download time. You are also welcome to use image placeholder services like lorempixel.com.

Post your website on your web hosting space, whether that's at SiteGround or another service.

NO ADDITIONAL JAVASCRIPT CRAZINESS. Please stick to jQuery, jQuery Mobile, and jQuery UI. Don't write extensive JavaScript or integrate Framework du Jour (Angular, Meteor, React, blah blah blah).

When students go over the top with assignments, that is a RED FLAG for grading. We then look at your assignment very carefully to determine if the work was lifted from somewhere else on the web. That includes your content as well as your code. It's common for students to "borrow" something they worked on previously and turn that in as an assignment. Unless that was specifically permitted, don't do it. (In the case of this assignment, you are specifically permitted to reuse Assignment 2 or 3 as a base, but that's all!)

Please just demonstrate what's requested in the assignment.

What Jen cares about

- **You follow the instructions. That includes "How to Turn In The Assignment", below.** Note that students who did not follow instructions about how to turn in the assignment last time got an F **and this time there are no regrades.** Instructions are listed because we need to streamline this process as much as possible.
- Your code is valid HTML5 and CSS3 code that works with some combination of Mac/PC/Chrome/Firefox. Please note that validation issues occasionally occur with Other People's Code. However, YOUR code should be valid.
- Your code works.
- You demonstrate mastery of the three lectures and the contents. **Please do not simply follow along with the lecture and turn this code in as the assignment.** I have provided all code for you with the lectures, so by doing this, you have not demonstrated mastery of anything. Be sure you read the jQuery UI requirements carefully.

What Jen doesn't care about

- Your graphic design and color matching abilities/inabilities don't matter to me. Neither does your ability/inability to make pretty pictures.
- **Cross-browser compatibility does not matter.** Valid and standards-compliant code does matter.

How to Turn In Your Assignment

Turn your assignment in at the assignment page in Canvas.

Use the commenting feature for your assignment, or create a text file.

In the text file/comment, please complete the following:

- My **week 12-13 jQuery Mobile assignment** is located at this/these URL(s): ____
 - Grid system is located on this/these page(s): ____
 - Button and/or icon is located here: ____
 - My two widgets are ____ and ____ and they are located on these pages: ____
 - My custom theme is applied on this page ____ line number ____
 - The form is located here: ____ and the modifications I used are ____ and ____ HTML line numbers ____
 - The jQuery Mobile events I used on my site include: ____ They are located here: ____
- My **week 14 jQuery UI assignment** is located at this/these URL(s): ____
 - My custom theme is applied on this page ____ line number(s) ____
 - My interaction is ____ applied on this page ____ line number(s) ____ (HTML and JS please!)
 - My widget is ____ applied on this page ____ line number(s) ____ (HTML and JS please!)
 - My effect is ____ applied on this page ____ line number(s) ____ (HTML and JS please!)

URL specified above means the EXACT URL where this is located. Do not give me the home page URL unless that's where the effect is located. Provide the URL to the about page if that's where the effect is located.

Help! I'm going to be late!

There are NO late submissions for this assignment. You must go through the Extension school and fill out an incomplete request, **which may not be approved**, in order to turn in this assignment late.

If you have a real life event, I always work with students for extensions. That includes severe and sudden illness or accident, death in the family, and other serious and sudden event. However, your bad time management, too much to do at work, the kids got sick, etc -- these excuses don't work at the end of the term.

Regrading of assignment

There are NO regrades on this assignment. The end of the term is December 19.

Contacting the instructors

Harvard is closed for US Thanksgiving on Thursday and Friday, November 26 and 27. It's likely you'll have a tough time getting hold of anyone on Wednesday, Saturday, or Sunday that week either.

Jen will be on the road Nov 23-30 (with travel days on either end). However, she will check email at least occasionally, and answer as she can.

Rebecca will be away Nov 21-29, but she will be available by email.

Erin is away December 2-12. It will be difficult to answer emails at that time, so direct TA questions to Rebecca.

Jen will be very busy with digital media capstone students the week of December 8, and particularly Dec 11-13 (the hybrid weekend when they're in town). She will be slow to answer emails.