# CSC 337, Fall 2013
## Assignment 4
## Due: Wednesday, October 16 at 22:00:00

The first two CSS assignments focused on various mechanics of CSS. In this assignment you'll be creating more practical pages.

**Restriction on all problems: You are not permitted to use WYSIWYG HTML/CSS design tools like Adobe Dreamweaver and Google Web Designer**; the HTML files that you submit are to be 100% manually coded. It's fine to use editors that provide syntax highlighting, auto-completion, and more, but tools that generate HTML and CSS for you are not permitted. You'll be on your honor to obey this rule. You will be asked to submit `honor.txt`, an affirmation of compliance. (See **`honor.txt`** section below for details.)

If you're doubtful about whether a particular tool is permitted, ask us about it!

**Restriction on problems 1-3: You may not use the CSS `position` property.** (It's ok to use it on problems 4 and 6. There are no restrictions on the use of the <u>`background`</u>-`position` property.)

## Problem 1. (10 points) `mudge.html`

Create an HTML document that matches the renderings shown in `$a4/mudge[12].png` when displayed in browser windows with similar aspect ratios and zoom levels.

**The details are important!** Pay attention to corners, alignments, spacing, things that do/don't touch, and font weights and styles. The only font families used are serif, sans-serif, and monospace. Colors need only be approximate. Font sizes need only be roughly proportional.

**You may use only the media files present in the `$a4` directory, and they may not be altered in any way.**

Use `div`s, not `<input>` elements, for the button-like things (Home, et al.)

For your convenience text for the page is in `$a4/mudge.txt`.

Along with `$a4/mudge[12].png` you'll find `$a4/mudge[12]x2.png`. The latter are full resolution screenshots from my Retina Mac that have twice the resolution. You might find them handy for examining fine details.

## Problem 2. (10 points) `george.html`

Same as problem 1 but for `$a4/george[12].png`.

Use `div`s, not `<form>` and `<input>`, elements for the Join! button and stuff around it.

## Problem 3. (10 points) `rpsd.html`

Same as problem 1 but for `$a4/rpsd[12].png`.

**Problem 4. (10 points) `fav.html`**

The first three problems use lorem ipsum text and such to hopefully prevent you from Googling up the real web pages that the designs are based on. In this problem you're to find some page on the web that has a styling that you find interesting and/or challenging and then create a reproduction of it.

Or, if you're feeling creative, design a page from scratch instead of creating a reproduction.

The complexity of the page should be comparable to that of problems 1 and 2. (Problem 3 is a bit too simple, but I liked its look!) We'll be happy to provide a quick thumbs up/down as to whether the page you choose and/or your reproduction of it is satisfactory.

You are on your honor to (1) not look at the source code of the page you choose to reproduce; and (2) not use tools like Chrome DevTools and Firebug to explore the structure of the pages. You can resize, measure, and check colors with sampling tools like GIMP but no looking behind the scenes, so to speak!

**Important: Include an HTML comment in `fav.html` with the URL of the page you've reproduced, or indicate the design is original.**

Be sure to include any media files needed by your `fav.html` in your `a4.zip`.

**Problem 5. (10 points) `questions.html`**

`$a4/questions.html` is an HTML file with a list of free-response questions. Copy the file and answer the questions. Put your response in the `<div class=answer>` element that's nested inside the `<div class=question>` element for each question.

Each of the questions has a copy of this empty `div`: `<div class=score></div>`. Be sure to leave it untouched; our grading machinery will insert scoring information into it.

Be sure that the file still renders properly after your edits.

**EXTRA CREDIT Problem 6. (10 points) `fav2.html`**

**For ten points of extra credi**t, repeat problem 4 but for a different page or a design of your own.

**`honor.txt`**

This is a plain-text file that simply affirms that you followed the rules in the assignment that put you on your honor to do things in certain way. You need to affirm that (1) no WYSIWYG tools were used to create any of the code you're submitting; and (2) for `fav.html` and `fav2.html`, you didn't examine the source code of the page(s) you chose to reproduce and that you didn't use any tools like Chrome DevTools or Firebug to explore their structure.

Choose your own wording or say something like "I affirm that I followed the on-my-honor rules set forth in the assignment 4 write-up."

**Turning in your work**

Use the D2L Dropbox named `a4` to submit a zip file named `a4.zip` that contains all your work. If you submit more than one `a4.zip`, we'll grade your final submission. Here's the full list of deliverables:

```
mudge.html
george.html
```

```
rpsd.html
fav.html
questions.html
fav2.html (for extra credit)
honor.txt (see above)
```

Note that all characters in the file names are lowercase.

Have the files in the uppermost level of the zip. For example, do **<u>NOT</u>** have `prob1/mudge.html`.

It's ok if your zip includes other files, too. Don't forget files needed by `fav.html` and `fav2.html`.

**Miscellaneous**

HTML slides 1-90, all the CSS slides, and in-class examples should provide all you need to complete this assignment. If you find yourself wanting to use aspects of CSS we haven't covered, you're probably overlooking something and/or making a problem more difficult than intended.

Point values of problems correspond directly to assignment points in the syllabus. In total this assignment represents 5% of your final grade in this course.

`$a4` follows the convention of `$a`*N* on the previous assignments.

Remember that late assignments are not accepted and that there are no late days; but if circumstances beyond your control interfere with your work on this assignment, there may be grounds for an extension. See the syllabus for details.

<u>My estimate is that it will take a typical CS junior between five and ten hours to complete this assignment.</u> If you're a CS senior, you'll probably do it in less. If you've taken only a single programming class, you might be on the high end or beyond. We recommend that you touch base with us if you pass the six-hour mark—give us a chance to be sure you're not making things too hard.

None of your solutions need to validate with either the HTML5 validator or the "Jigsaw" CSS validator, but you may find the CSS validator to be helpful in diagnosing mysterious problems with CSS. (The typical mysterious CSS problem is that a declaration is ineffective, like those on slide CSS slide 16.)

Keep in mind the point value of each problem; don't invest an inordinate amount of time in a problem or become incredibly frustrated before you ask for a hint or help. Remember that the purpose of the assignments is to build understanding of the course material by applying it to solve problems. If you reach the seven-hour mark, regardless of whether you have specific questions, it's probably time to touch base with us. Give us a chance to speed you up! Our goal is that everybody gets 100% on this assignment and gets it done in an amount of time that is reasonable for them.

Remember that I award Bug Bounty points; if you find problems, there's a potential reward for reporting them. I prefer that bugs be reported by mail to me. I'll put up a " FAQs and Corrections" post on Piazza and update it as things come in.

Use the `a4` folder for any Piazza posts about the assignment.