

## CS 328 - Week 8 Lab Exercise - 2025-03-13/14

### Deadline

Due by the end of lab.

### Purpose

To practice with more CSS properties, including some related to the CSS Box Model.

### How to submit

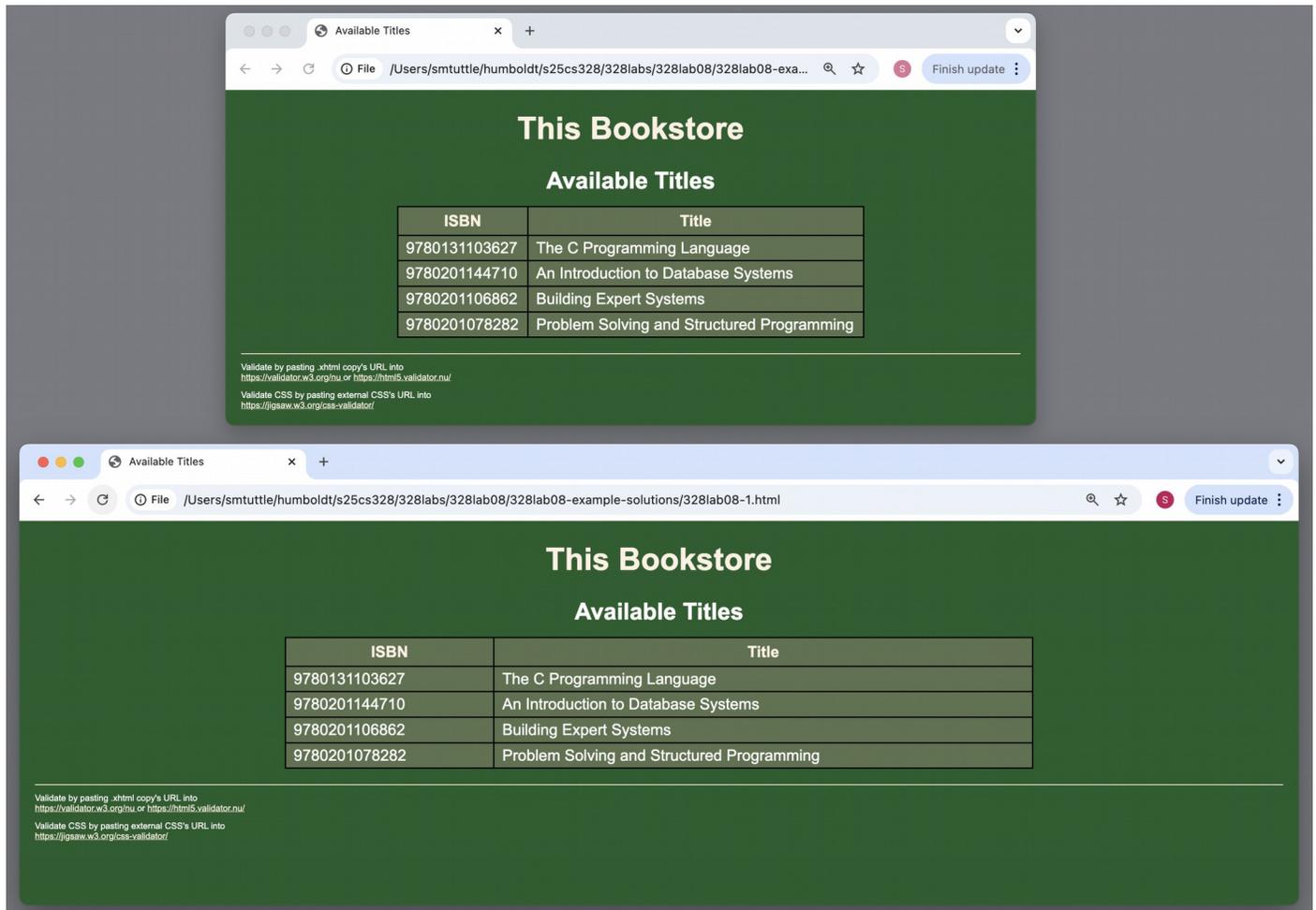
Submit your files for this lab using `~st10/328submit` on nrs-projects, each time entering a lab number of **88**.

### Requirements

- You are required to work in **pairs** for this lab exercise.
  - This means **two** people working at **ONE** computer, one typing ("driving"), one saying what to type ("navigating"),  
while **BOTH** are looking at the **shared** computer screen and **discussing** concepts/issues along the way.
- Make sure **BOTH** of your names appear in each file submitted.
- When you are done, before you leave lab, **BOTH** of you should submit appropriate versions of these files using `~st10/328submit` on nrs-projects, with a lab number of **88**.
- You are expected to follow the style standards from the posted "CS 328 CSS Coding Standards so far" (at <https://nrs-projects.humboldt.edu/~st10/s25cs328/328-css-coding-standards.pdf>).
- Note that, with just a few exceptions, there are examples of all of the CSS properties needed for today's lab exercise in the posted example `328lect08-2.css`.
  - For those exceptions, the CSS property you should use is specifically noted in the lab exercise.

**(Problem 1 starts on the next page)**

## Problem 1 - formatting a document including a table



- Consider the above screen shot. This is a display, in the Chrome browser on Mac OS X, of `328lab08-1.html` styled using CSS.
- Copy over the following "starter" HTML file into your desired `public_html` subdirectory, that you will then add to as part of today's lab exercise:
 

```
cp ~st10/328lab08-1-start.html 328lab08-1.html
```
- Fill in the opening comment block as specified, putting in your **names**, the last modified **date**, and the **URL** that can be used to run your document.
  - (You *will* lose some credit if this URL does not work when I or the grader paste it into a browser!)
- **Within** the **head** element, after the **link** element specifying that this document is being styled by `normalize.css`, add a second **link** element following course style standards specifying that this document will then be further styled using a file `328lab08-1.css` that you are about to create for this lab exercise.
  - **Do not include any inline or internal CSS rules in your `328lab08-1.html`.**
- Do not make any other changes to your `328lab08-1.html`.

- Read over this and notice what HTML elements are included in its **body** element.

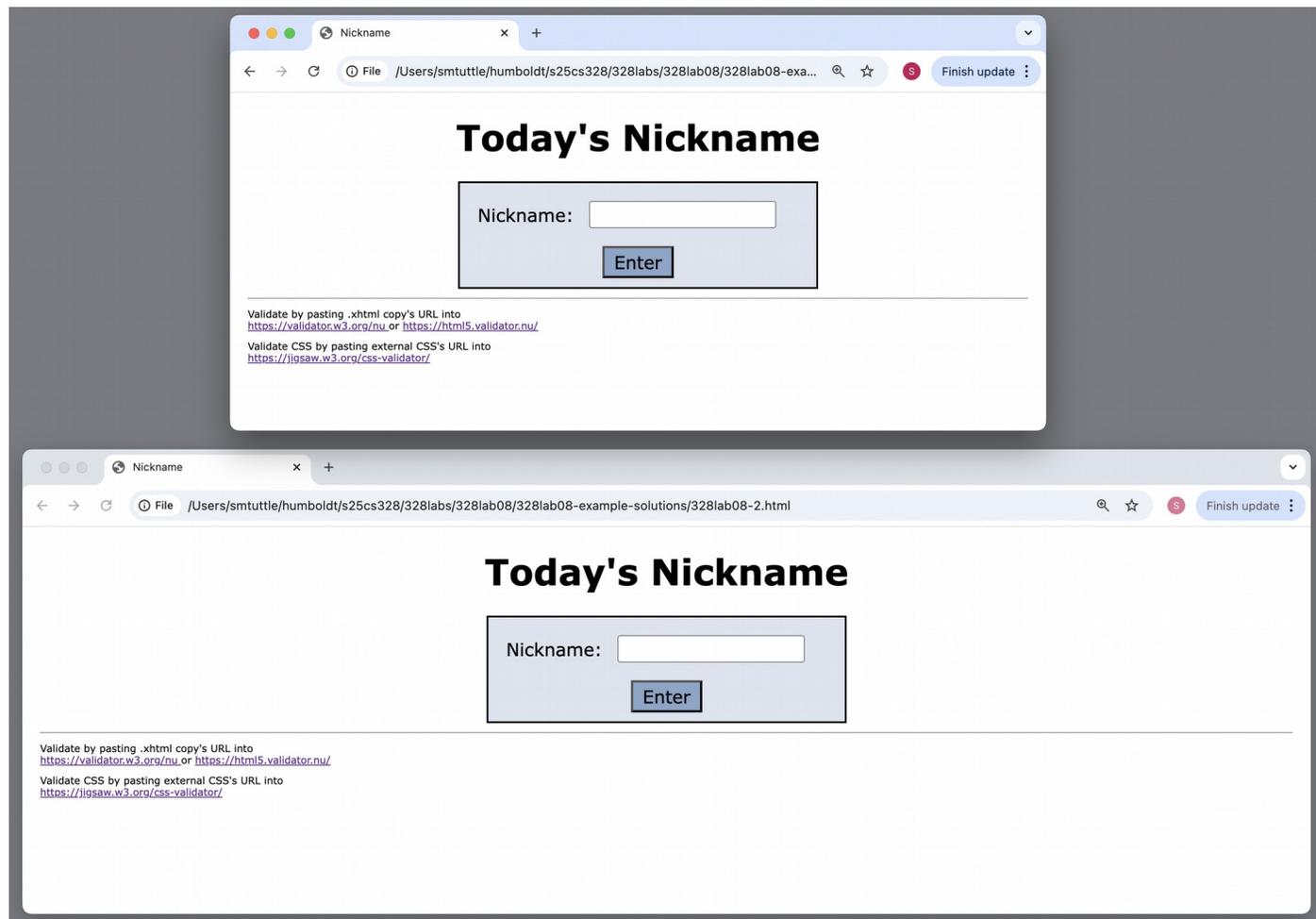
Now create this external CSS file **3281ab08-1.css** in the same directory as your **3281ab08-1.html**, trying to style **3281ab08-1.html** to match the above shown layout as **closely** as possible, noting the following:

- Start this with an opening comment block containing your **names** and the last modified **date**.
- The **body** element above is styled using:
  - a **font-family** whose first choice is **Arial** and whose second choice is **sans-serif**
  - left and right margins of **1em**
  - a background color of **#215E2D**
  - a color of **#FFFFFF**
- **h1** elements are styled using:
  - a color of **#FFF1E2**
  - centered text alignment
- **table** elements are styled using:
  - a background color of **#5D734F**
  - a width of **60%**
  - left and right margins of **auto**
- **table**, **th**, and **td** elements are all styled using:
  - a border that is **0.1em**, solid, and black
  - a **border-collapse** of **collapse**
- **th** elements are further styled using:
  - top and bottom padding of **0.3em**
  - a color of **#FFF1E2**
- **td** elements are further styled using:
  - top and bottom padding of **0.2em**
  - left and right padding of **0.5em**
- **a** elements are styled using:
  - a color of **#FFF1E2**
- **caption** elements are styled using:
  - a **font-size** of **1.5em**
  - a **font-weight** of **bold**
  - a bottom margin of **0.5em**

- **hr** elements are styled using:
  - a top margin of **1em**
  - a border that is **0.05em**, solid, and color **#FFF1E2**
- the **footer** element is styled using:
  - a **font-size** of **0.5em**
- **328lab08-1-start.html** validates as strict-style HTML. Make sure it still does in your **328lab08-1.html**, and that your resulting **328lab08-1.css** validates as valid CSS.

**(Problem 2 starts on the next page)**

## Problem 2 - formatting a document including a simple form



- Consider the above screen shot. This is a display, in the Chrome browser on Mac OS X, of **3281ab08-2.html** styled using CSS.
- Copy over the following "starter" HTML file into your desired `public_html` subdirectory, that you will then add to as part of today's lab exercise:
 

```
cp ~st10/3281ab08-2-start.html 3281ab08-2.html
```
- Fill in the opening comment block as specified, putting in your **names**, the last modified **date**, and the **URL** that can be used to run your document.
  - (You *will* lose some credit if this URL does not work when I or the grader paste it into a browser!)
- **Within** the **head** element, after the **link** element specifying that this document is being styled by `normalize.css`, add a second **link** element following course style standards specifying that this document will then be further styled using a file **3281ab08-2.css** that you are about to create for this lab exercise.
  - **Do not include any inline or internal CSS rules in your 3281ab08-2.html.**
- Do not make any other changes to your **3281ab08-2.html**.

- Read over this and notice what HTML elements are included in its **body** element.

Now create this external CSS file **3281ab08-2.css** in the same directory as your **3281ab08-2.html**, trying to style **3281ab08-2.html** to match the above shown layout as **closely** as possible, noting the following:

- Start this with an opening comment block containing your **names** and the last modified **date**.
- The **body** element above is styled using:
  - a **font-family** whose first choice is **Verdana** and whose second choice is **sans-serif**
  - left and right margins of **1em**
- **h1** elements are styled using:
  - centered text alignment
- **form** elements are styled using:
  - a background color of **#DCE4EF**
  - a width of **20em**
  - left and right margins of **auto**
  - a border that is **0.1em**, solid, and black
- **label** elements are styled using:
  - a left margin of **1em**
  - right padding of **0.5em**
- elements with **class="submit\_cont"** are styled using:
  - a width of **4em**
  - left and right margins of **auto**
  - a bottom margin of **0.5em**
- submit buttons are styled using:
  - a background color of **#8BA6CA**
  - a width of **4em**
  - padding of **0.2em**
- the **footer** element is styled using:
  - a **font-size** of **0.5em**
- **3281ab08-2-start.html** validates as strict-style HTML. Make sure it still does in your **3281ab08-2.html**, and that your resulting **3281ab08-2.css** validates as valid CSS.

## Validate your files:

Make sure `.xhtml` copies of your `328lab08-1.html` and `328lab08-2.html` validate as **strict-style HTML**,

and that your `328lab08-1.css` and `328lab08-2.css` validate as **valid CSS** at

<https://jigsaw.w3.org/css-validator/>.

## BEFORE you leave lab:

Make sure that you **both** have copies of the files:

- `328lab08-1.html`, `328lab08-1.xhtml`, and `328lab08-1.css`
- `328lab08-2.html`, `328lab08-2.xhtml`, and `328lab08-2.css`

...and you BOTH submit these using `~st10/328submit` on nrs-projects, with a lab number of **88**.

## How the navigator can get today's files:

(for a driver with username `dr12`, and a navigator with username `na89` - replace these with your *actual* usernames when you actually do this)

- Because these are files the nrs-projects web server has to be able to reach, the navigator should be able to get a copy of them from the driver using an approach like this:

- Assume the driver has, in their `public_html` directory, a sub-directory `328lab08` containing today's `.html` and `.css` files. (Adapt the following accordingly based on your driver's actual directory location for today's files.)

- The NAVIGATOR `na89` can now:

- log in to THEIR (`na89`'s) nrs-projects account, and run these commands:

```
cd public_html
mkdir 328lab08 # or other name they choose
chmod 711 328lab08
cd 328lab08
cp ~dr12/public_html/328lab08/328lab08-1.html . # note space & period!
cp ~dr12/public_html/328lab08/328lab08-1.css . # note space & period!
cp ~dr12/public_html/328lab08/328lab08-2.html . # note space & period!
cp ~dr12/public_html/328lab08/328lab08-2.css . # note space & period!
```

- Now the navigator `na89` should have their own copies of these `.html` and `.css` files.

- Either repeat for the `.xhtml` files,

or (if desired) change the URL within the navigator's `.html` files to refer to the *navigator's* copy, and then make the `.xhtml` copy (and double-check that it still validates):

```
cp 328lab08-1.html 328lab08-1.xhtml
cp 328lab08-2.html 328lab08-2.xhtml
```