

CS 328 - Homework 2

Deadline

11:59 pm on Sunday, February 4, 2024

Purpose

To practice writing and (at-least-partially) validating more strict-style HTML.

How to submit

Each time you wish to submit, submit your files using `~st10/328submit` on nrs-projects, with a homework number of 2 .

Homework 2 Requirements/Set-up

- For this homework's problems, do **not** include any CSS except for the external CSS `normalize.css` included in `html-template.html` and `html-style-play-before.html`
- If you wish to include an `img` element in document for Problem 3, note that it needs to validate as strict-style HTML. If its URL does not do so, make a copy of the image in your nrs-projects account (if you can legally do so) or use a service such as `tinyurl` to avoid problematic characters.
- Make a sub-directory in your `public_html` directory for Homework 2's HTML documents. And, in this case, **you** choose the name for this sub-directory.

```
cd ~/public_html          # make sure you are in your public_html
mkdir name-you-choose     # make a directory within public_html
chmod 711 name-you-choose # make it world-executable
cd name-you-choose       # go to that new subdirectory
```

Remember that a world-readable file *my-doc.html* in the `public_html` subdirectory *name-you-choose* would have the URL:

`https://nrs-projects.humboldt.edu/~your_user_name/name-you-choose/my-doc.html`

- (Note: it is also perfectly fine if you choose to put your Homework 2 files in a "deeper" sub-directory within `public_html`.)

Problem 1

FUN FACT: There is an HTML element `cite` that should be used for a creative work such as the title of a book or the name of a newspaper.

- `cite` can have content.
- `cite` should be within an appropriate "containing" element, for example `p` or `li`.
- according to the Web Hypertext Application Technology Working Group (WHATWG) (as reported

at <https://developer.mozilla.org/en-US/docs/Web/HTML/Element/cite>), `cite` should *not* include author name(s) within its content.

To practice thinking about structuring content using HTML, consider the following desired *content*:

Recent Noteworthy Children's Picture Books

These are the top five children's picture books from the New York Times Best Sellers for February 4, 2024. These were obtained from the list at <https://www.nytimes.com/books/best-sellers/> on January 27, 2024.

Top Five Children's Picture Books

1. Little Blue Truck's Valentine, by Alice Schertle and Jill McElmurry
2. Love from Bluey, by Suzy Brumm
3. Love from the Very Hungry Caterpillar, by Eric Carle
4. Just One More Sleep, by Jamie Lee Curtis and Laura Cornell
5. How to Catch a Loveosaurus, by Alice Walstead and Andy Elkerton

Starting from the `html-template.html` posted on the course public site and along with this homework handout, create a "strict" HTML document meeting the following requirements:

- Include **prob1** somewhere in its file name, and give its file name the suffix `.html`.
- Fill in the opening comment block as specified, putting in your name, the last modified date, and the URL that can be used to run your document.
- Include your last name along with appropriately-descriptive content in its `title` element.
- Use HTML to include and structure the above given desired content appropriately.
- Include HTML to make the URL that appears within this desired content a hyperlink that leads to that URL.
- Remember: some of our course style standards are not things that validators check. BUT, you can check if your result follows at least some of the strict-style HTML syntax as you did in the Week 2 Lab Exercise:
 - On nrs-projects, in the directory where your `your-file-name-prob1.html` resides, run:

```
cp your-file-name-prob1.html your-file-name-prob1.xhtml
```
 - Paste the URL of your copy of `your-file-name-prob1.xhtml` into the Address field at <https://html5.validator.nu/> to check it.

Submit your `your-file-name-prob1.html` file.

Problem 2

Along with this handout, you'll find the content for a file `html-style-play-before.html`. Currently, however, this content is NOT valid strict-style HTML.

- Use this content as the initial content of a file that includes **prob2** somewhere in its file name, and give its file name the suffix `.html`.
- Fill in the opening comment block as specified, putting in your name, the last modified date, and the URL that can be used to run your improved document.
- Add your last name to the current content in its `title` element.
- Correct this content to make it follow course style standards.
- REMEMBER that it does not check for all of the CS 328 required style standards -- but you can use an `.xhtml` copy of your document with <https://html5.validator.nu/> to assist you in correcting this.

Submit your *your-file-name-prob2.html* file.

Problem 3

Consider the small bookstore database created and initially-populated by `create-bks.sql` and `pop-bks.sql`, which you described in relation-structure form in `describe-bks.txt` as part of Homework 1.

You get to choose the "theme" along with a name for the bookstore represented by your instance of the bookstore database, and will use these as you build application pieces atop this database during the semester. You should not feel limited in any way by the titles that `pop-bks.sql` happens to insert. (That is, you could choose a literary theme, or a technical theme, or a fantasy theme, or a musical theme, or a game-based theme, etc.)

Decide on a theme and a name, and, using the posted `html-template.html` as the initial basis, create a strict-style HTML document `about-bks.html`. This needs to contain at least the following:

- Fill in the opening comment block as specified, putting in your name, the last modified date, and the URL that can be used to run your document.
- In its `head` element, include a `title` element with appropriate content.
- In its `body` element, include at least:
 - A name for your bookstore, included in a top-level/level-1 heading.
 - A paragraph describing your bookstore, included in a `p` element.
 - Within its `footer` element, include a `p` element whose contents include your name.
 - You may include additional appropriate content, in appropriate strict-style HTML elements, as you would like.
- REMEMBER that it does not check for all of the CS 328 required style standards -- but you can use an `.xhtml` copy of your document with <https://html5.validator.nu/> to assist you in validating and checking over your document.

Submit your `about-bks.html` file.