CIS 4004: Web-Based Information Technology Spring 2018
Project Three (80 pts)
Due Sunday February 25, 2018

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                    HEC 236, 407-823-2790
                    Office Hours: M, W & Th: 1:00-3:00pm
                                        T: 1:00-2:00pm
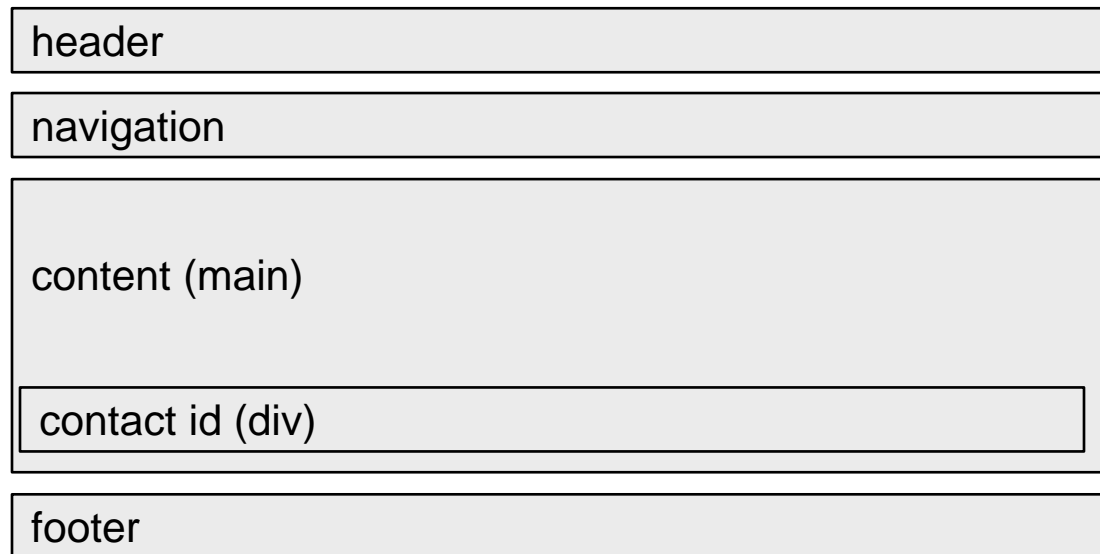
Department of Computer Science
University of Central Florida

Project Three

- This assignment has three main objectives:

  (1) To give you some practice adding images to an existing webpage.

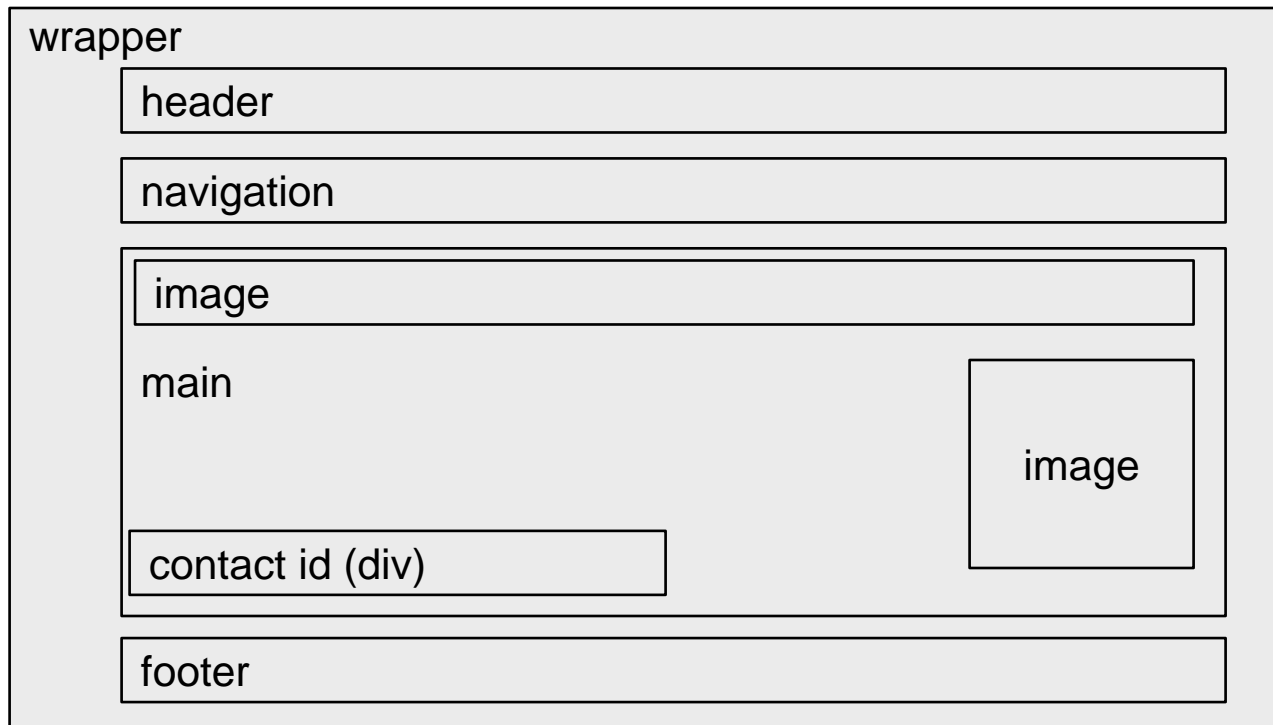 (2) To apply additional CSS to alter the presentation of a webpage.

Project Three

- Begin this assignment with the two webpages that you created for Project Two along with the external style sheet that you created for that project. Project Two culminated with two webpages and one external style sheet with each page constructed according to the wireframe shown below.

header

navigation

content (main)
contact id (div)

footer

Project Three

- We'll modify the wireframe to look like the one shown below. The wrapper is a `<div>` element which contains the entire body of the document.

```
wrapper
    ┌──────────────────────────────────────────────┐
    │ header                                        │
    └──────────────────────────────────────────────┘
    ┌──────────────────────────────────────────────┐
    │ navigation                                    │
    └──────────────────────────────────────────────┘
    ┌──────────────────────────────────────────────┐
    │ ┌──────────────────────────────────────────┐ │
    │ │ image                                    │ │
    │ └──────────────────────────────────────────┘ │
    │ main                                          │
    │                                  ┌─────────┐  │
    │                                  │         │  │
    │                                  │  image  │  │
    │ ┌────────────────────────┐       │         │  │
    │ │ contact id (div)       │       └─────────┘  │
    │ └────────────────────────┘                    │
    └──────────────────────────────────────────────┘
    ┌──────────────────────────────────────────────┐
    │ footer                                        │
    └──────────────────────────────────────────────┘
```

Project Three

- In this project you will modify the external stylesheet created in Project Two to add additional style elements to your markup.

- You will also add images to the webpages and begin to enhance the overall look of the website.

- Copy the index.html, menu.html, and the bistro.css files from your Project Two folder into a new folder named Project Three.

- Unless specifically instructed to do so, do not remove markup from either index.html or menu.html or any rules from your bistro.css stylesheet.

Project Three: Task 1

- Your first task for Project Three is to modify the `bistro.css` stylesheet.

- Code the CSS to the following specifications:

  – Select `<body>` elements to have Verdana, Arial, or sans-serif font typeface. Place the image `ocean.jpg` into the background of this element with a horizontal repetition.

  – Select `<h1>` elements appearing in `<header>` elements to display the image named `lighthouselogo.jpg` on the left side of the header with no repetition. Also set the height at 110px with 130px left padding and 30px of top padding. Place a 1px solid border using color #FFE4C4 around the elements, with a border-radius of 15px. Text color in this element should be #00008B.

  – Select `<nav>` elements to have bold text.

  – Use a descendant selector to style `<a>` elements inside `<nav>` elements to eliminate the display of the underline for hyperlinks.

  (continued on next slide)

Project Three: Task 1

- Continued from previous slide:

  – Select `<ul>` elements to display the image `marker.gif` as the list bullet.

  – Select `<footer>` elements in `<main>` to use the image `lighthouselogo1.jpg` with horizontal repetition. Set the height to 35px with a -2em top margin and a solid 1px border using color #FFE4C4 and a 6px radius.

  – For the id named `address`, add rule to display text with 92% font size.

  – Define an `id` named `wrapper` with auto-sized left and right margins with a maximum width of 900px and a minimum width of 750 px. Set the width of this element to be 80%. This will provide us with a variable-width centered layout design.

- Save and validate the `bistro.css` stylesheet.

Project Three: Task 2

- Create a folder named `images` inside your Project Three folder.

- Download the images from the WebCourses assignment page into this folder. There are nine images to download with the following names:

  - `clamstrips.png`
  - `coffee.jpg`
  - `favicon.ico`
  - `lighthouselogo.jpg`
  - `lighthouselogo1.jpg`
  - `marker.gif`
  - `ocean.jpg`
  - `oldmackinaclight.jpg`
  - `tea.jpg`

Project Three: Task 2

- Modify the `index.html` (home) page as follows:

  - Remove any `<b>`, `<small>`, or `<i>` elements from the page (if you have any).

  - Place an `<img>` element as the first element inside `<main>` to display the image named `oldmackinaclight.jpg`, aligned to the right side of the element with an explicit width of 250px and an explicit height of 350px. Don't forget to include an `alt` attribute description of the image.

  - Include a link to the `favicon.ico` file so that the icon image displays on the browser tab for your webpage.

- After making these changes, your `index.html` page should look very similar to the one shown on the next page.

The Lighthouse Bistro

Home   Our Menu   Entertainment Schedule   Reservations

Enjoy Fine Dining and Entertainment at Lighthouse Point

The Lighthouse Bistro offers fine dining and entertainment a stones throw from the Old Mackinac Point Lighthouse on the Straits of Mackinac. The lighthouse was build in 1892 as a sentinel for vessels entering the Straits of Mackinac. Open year round. Yes, even in the winter! Stop in for a mug of one our specialty coffees after your hike.

- Specialty Coffees and Teas
- Bagels, Muffins, and Organic Snacks
- Clam Strips, Oysters, and Fresh Fish served daily
- Music and Poetry Readings
- Open Mic Night Every Friday starting at 8:00pm

The Lighthouse Bistro
#27 Lighthouse Road
Mackinac City, Michigan 49701

888-555-5555

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yourfirstname@yourlastname.com

Project Three: Task 2

- The second task for this project is to modify the `menu.html` markup as follows:

  – Remove any `<b>`, `<small>`, or `<i>` elements from the page (if you have any).

  – Add an `<img>` element just above the Coffees header which displays the `coffee.jpg` image. Just above the Teas header add an `<img>` element to display the `tea.jpg` image, and just above the Snacks header add an `<img>` element to display the `clamstrips.png` image. All three of these images should be right aligned with explicit width and height of 250px each. Be sure to specify the `alt` attribute for each image.

  – Modify the main content of this page from whatever markup you used previously, whether it was `<h3>` elements, or a `<ul>` elements to use a definition list `<dl>`.

  – Include a link to the `favicon.ico` file so that the icon image displays on the browser tab for your webpage.

- After making these changes your menu page should look like the one shown on the next two slides.

The Lighthouse Bistro

Home   Our Menu   Entertainment Schedule   Reservations

Coffees

Just Java
Regular house blend, decaffeinated coffee, or flavor of the day.
Endless Cup $2.00

Cafe au Lait
House blended coffee infused into a smooth, steamed milk.
Single $2.00   Double $3.00

Iced Cappuccino
Sweetened espresso blended with icy-cold milk and served in a chilled glass.
Single $4.75   Double $5.75   Wow! $7.75

Espresso
Our house blend espresso - the best!
Single $5.00   Double $7.50

Teas

Breakfast Teas
Darjeeling, English Breakfast, Queen Anne, Green Tea with Lemon
Endless Cup $2.00

Afternoon Teas
Lemon, Pure Peppermint, Earl Grey, China Oolong,

Coffees

Just Java
Regular house blend, decaffeinated coffee, or flavor of the day.
Endless Cup $2.00

Cafe au Lait
House blended coffee infused into a smooth, steamed milk.
Single $2.00   Double $3.00

Iced Cappuccino
Sweetened espresso blended with icy-cold milk and served in a chilled glass.
Single $4.75   Double $5.75   Wow! $7.75

Espresso
Our house blend espresso - the best!
Single $5.00   Double $7.50

Teas

Breakfast Teas
Darjeeling, English Breakfast, Queen Anne, Green Tea with Lemon
Endless Cup $2.00

Afternoon Teas
Lemon, Pure Peppermint, Earl Grey, China Oolong,
Endless Cup $3.00

Exotic Teas
Orange & Cinnammon Spice, Camomile, Honey & Vanilla, Pomegranate & Raspberry.
One Cup $3.50

Snacks

Bagels and Muffins
Bagels, Plain Muffins, Blueberry Muffins, Chocolate Muffins, and much more
Small $2.00   Large $3.00

Organic Snacks
Organic chips with sea salt, Organic salads
Prices vary

Fresh Fish
Clam Strips, Fried Fish Strip, Fried Oysters, and many other seasonal selections.
Prices Vary By Season $5.75-$15.00

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yourfirstname@yourlastname.com

Project Three: Important Note

- As of early February 2018, the W3C has issued an important update to the use of ARIA landmark roles as they relate to HTML elements.

- The details of this report can be found at https://w3c.github.io/html-aam/. More specific HTML-level information can be found at http://www.w3.org/TR/html-aria/#docconformance.

- The gist of this document can be summarized in the following paragraph from that document:

"Web developers MAY use the ARIA role and aria-* attributes on HTML elements, in accordance with the requirements described in [wai-aria-1.1], except where these conflict with the strong native semantics or are equal to the implicit ARIA semantics of a given HTML element. These constraints, are intended to prevent developers from making assistive technology products report nonsensical user interface (UI) information that does not represent the actual UI of the document."

Project Three: Important Note

- The end result of this is that we should no longer be including the ARIA landmark "role" attribute in the HTML.

- Web developers SHOULD NOT set the ARIA role and aria-* attributes to values that match the implicit ARIA semantics defined for each HTML element.

- For example, we have been including the following in our HTML markup:

```
<body role="document">

<nav role="navigation">
```

- We will now stop doing this from this point forward. I'll give some more updates on how to correctly include ARIA features when I get some more time to look over the W3C documents.

What To Turn In

Place all of the deliverables for this assignment into a folder named Project3. The deliverables for this assignment are to be submitted via WebCourses no later than 11:59pm Sunday February 25, 2018 are:

1.   The two valid HTML5 documents containing the semantically correct markup for the index/home and menu pages (30 pts – 15pts for each page).

2.   A folder named `images` containing the eight images for this project. (5 pts)

3.   A document containing screen captures for HTML5 validations (both passing!) (10 pts – 5pts for each valid page).

4.   A valid CSS stylesheet named `bistro.css`, with styles defined as outlined in this document. (25 pts).

5.   A document containing a screen capture of the validation of the stylesheet (10 pts).

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for uploaded file index.html

Checker Input

Show ☐ source ☐ outline ☐ image report   [Options...]

Check by [file upload ▼] [Choose File] No file chosen

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

[Check]

Document checking completed. No errors or warnings to show.

Used the HTML parser.

Total execution time 6 milliseconds.

About this checker • Report an issue • Version: 18.2.12

Menu | /manager | Welcome to Servlets! | The Lighthouse Bistro Me | W3C CSS Validator result

jigsaw.**w3.org**/css-validator/validator

The W3C CSS Validation Service

W3C CSS Validator results for bistro.css (CSS level 3 + SVG)

Jump to: **Validated CSS**

W3C CSS Validator results for bistro.css (CSS level 3 + SVG)

Congratulations! No Error Found.

This document validates as CSS level 3 + SVG !

To show your readers that you've taken the care to create an interoperable Web page, you may display this icon on any page that validates. Here is the XHTML you could use to add this icon to your Web page:

```
<p>
    <a href="http://jigsaw.w3.org/css-validator/check/referer">
        <img style="border:0;width:88px;height:31px"
            src="http://jigsaw.w3.org/css-validator/images/vcss"
            alt="Valid CSS!" />
    </a>
</p>
```

```
<p>
<a href="http://jigsaw.w3.org/css-validator/check/referer">
    <img style="border:0;width:88px;height:31px"
        src="http://jigsaw.w3.org/css-validator/images/vcss-blue"
        alt="Valid CSS!" />
    </a>
</p>
```