

# CSC 170 Lab 06: CSS for Navigation

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In this lab you will create a non-working horizontal navigation bar and integrate it in a web page with formatting and layout.

## Make a copy of Lab 5 (CSS for Layout)

- After you've completed Lab 5 and got an acceptable grade, make a copy of all the files in it to a new folder named **lab06**
- ❑ In your **start.html** file, Change the title in the `<title>` tag to "Lab 6 - ..."  
e.g. `<title>Lab 6 - Shakespeare</title>`

## Code a horizontal navigation bar

- ❑ In your **index.html** file, below the `<header>` block and above the `<article>` block, insert a `<nav>` block.<sup>1</sup>
- ❑ Give the `<nav>` block a class of "**menu**" like this:  
`<nav class="menu">...`
- ❑ Within the `<nav>` block, code an **unordered list** with five list items.
- ❑ Within the list items, code anchor tags, each with an attribute of: `href="#"` like this:  
`<a href="#">...</a>`
- ❑ Within each anchor tag, type the name of the five menu items: **Home**, **Products**, **Services**, **About Us**, and **Contact Us**

## Create a special CSS file

- ❑ In the head of the HTML file, under the existing `<link>` to the `styles.css`, create a new link to another CSS file that you'll name: **navigation.css**
- ❑ In the file system, in the **css** folder, create a new blank plain-text file named **navigation.css**
- Test to make sure your new CSS link is working. Add something like: **body { color: red; }**  
...save all your files and look at the `index.html` file in a browser. If you see red text, then the connection works. Go back and delete the `body { color: red; }` code.

## Style your Navigation Bar

- ❑ Edit your navigation CSS file (not the `styles.css` file). Add the typical code web developers use to nullify the effects of the unordered list:

```
.menu ul {
    margin: 0;
    padding-left: 0;
    list-style-type: none;
}
```

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<sup>1</sup> If you used multiple `<article>` elements, nest them all in a `<section>` element, then insert the `<nav>` between the end of the `<header>` and beginning of the `<section>`.

- ❑ Add a border to the list items to turn them into things that look like buttons:

```
.menu li { border: 1px solid black; }
```

- ❑ To differentiate the anchor tags in the menu from the other anchor tags in this document:

```
.menu a {  
    color: black;  
}  
.menu a:hover {  
    color: white;  
    background-color: #333333;  
}
```

- ❑ To give the user a bigger area to click, turn the anchor tags from inline (its default) to “block”, and then add a little padding:

```
.menu a {  
    color: black;  
    display: block;  
    padding: 5px 20px;  
}
```

- ❑ Try different layout techniques for the menu (try them all out, one at a time):

```
.menu li {display: inline-block; }
```

...then delete and use this...

```
.menu ul { display: flex; }
```

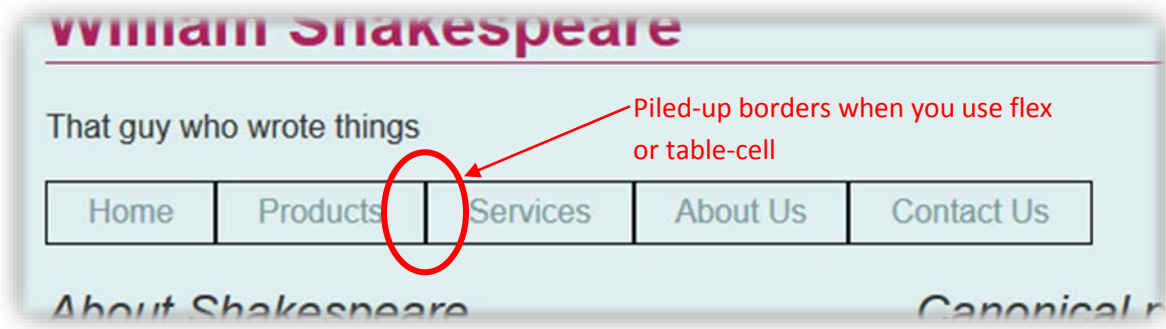
*(Notice: for the flex technique, the target is the UL, not the LI)*

...then delete and use this...

```
.menu li { display: table-cell; }
```

Notice the different effect between inline-block and flex.

- With inline-block, there is a space between the menu items.
- With flex and table-cell, the menu items touch, side-by-side, which causes an unfortunate effect: the borders pile-up in-between the items.



Although the flex technique is more awesome, you cannot easily fix the piled-up borders problem. (You can, but it's insanely wonky.) However, you *can* fix the piled-up borders problem with the table-cell technique.

- ☐ To fix the piled-up border problem (works with table-cell only):

```
.menu ul { border-collapse: collapse; }
```

(Notice: the target is the UL, not the LI)

### Part 3: Check and Upload your Work

When you are done with your webpage, use an FTP tool (like *WinSCP*) to access your account on       .rochestercs.org to create a folder: **lab06** and upload all your files into it.

- ☐ In a web browser (any), go to this address to check your handiwork:

***accountname*.rochestercs.org /lab06/start.html**

(where "*accountname*" is your account name)

Remember: All files and folder names must always be all lowercase and no spaces.

### Report your work

Remember: Use the W3C HTML validator (**validator.w3.org**) AND the W3C CSS validator (**http://jigsaw.w3.org/css-validator**) to check your work before you report it!

- In our Blackboard section, in Lab 6, post a link to your webpage to receive credit for this Lab.