# HW LAB 2: CSS Design and Layout

You'll style a "Victoria's Journal" .

1. Arrange Your  into Sections
2. Spacing With Padding and Margins, Backgrounds
3. Float, Alignment and Clear
4. Cosmetic Finishing Touches
5. Upload Your  to the Web

- Resources: Chrome Dev Tools, lecture slides, internet.

# Exercise 1: Arrange  into Sections (~20-25 min)

(The next 3 slides describe this exercise. Please read them all, then start.)

First download the following HTML file. Then open it in your text editor, and also open the HTML  on your hard drive in Chrome. Then move on to the next slide.

- journal.html

# Exercise 1, details

(See example screenshot on next slide.)

Organize `journal.html` by adding `ids`, `classes`, `spans` and `divs`. Then, add borders around these sections by editing your `layout.css`.

- The **borders** are all `5px` thick and `solid`.
- The **colors** are the intuitive HTML color names, e.g. the red border is the HTML color `red`.
- *Hint:* To reduce the needed `id` and `class` attributes, consider using CSS **context selectors**.

The only major changes to make to the HTML are adding `ids`, `classes`, `divs`, and `spans`.

# Exercise 1, output
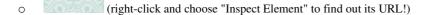
Your  should look like this when you are done:



# Exercise 2: Padding, Margins, Backgrounds (~15 min)
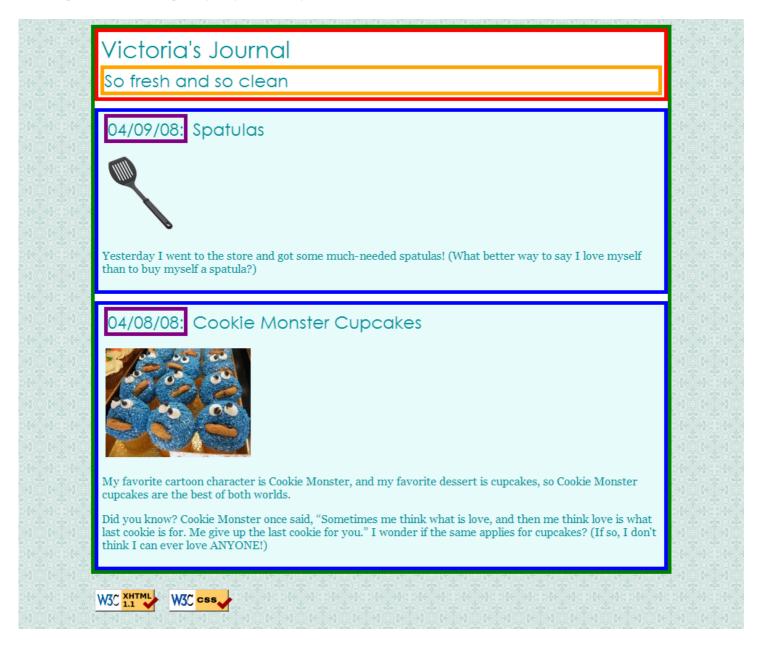
(See example screenshot on next slide.)

Add padding, margins, and backgrounds to the . Change only your `layout.css` file.

- The box with the **green** border should have a background color of `white.`
- The boxes with the **blue** borders should have a background color of `#E8FBFB.`
  - It should have a padding of `5px` (on all sides) and margin of `10px` only on the *top* of the box.
- The **overall  content** area should become centered on the , should have left and right margins of `10%`, and the following background image:

  

  -        (right-click and choose "Inspect Element" to find out its URL!)

# Exercise 2, example

This example is Victoria's with padding/margins and backgrounds:



# Exercise 3: Float, Align, Clear (~15 min)

(See example screenshot on next slide.)

Now we'll practice `float`, `clear`, and alignment. You may have to edit `journal.html` code as well as `layout.css`.

- The heading text in the **red** box should appear on the **right** side of that section of the .
- The text of each journal entry should be widened so that each line fills the entire width of the section ("fully justified").
- The journal entry images should hover on the **right** side next to the surrounding text. The image should stay within the bounds of the blue box; that is, it should not bleed into the other content below it.
    - (*Hint:* If your boxes are not tall enough to fit the floating elements inside them, see the "Making Floating Elements Fit" in Chapter 4 of the textbook.)

# Exercise 3, example

This example is Victoria's  with floating and alignment:



# Exercise 4: Finishing Touches (~10 min)

(See example screenshot on next slide.)

- Change the box with the **green** border to have a solid, white, 10px-thick border.
- Change the boxes with the **blue** border to have a solid, 4px-thick border, in color `#C2E9E9`, with a 15px rounded **border radius**.
- Change the box with the **purple** border to have *only* a bottom border: blue, dashed, and 2px-thick.
- Change the box with the **red** border to have a background color of `#A8F0F0`, and get rid of its border.
- Change the font size of the So fresh and so clean area to 14pt, and get rid of its border.

# Exercise 4, example

This example is Victoria's beautified :



# Exercise 5: Put  on Web (~5 min)

- Upload  your  to a Web server on the internet using an FTP program.
  - Put your files in a folder named `lab1` within your `public_html` folder.
- Check the  by viewing it in the web browser. Its URL should be:
  - http://

*Ask a if you have any problems  uploading your files!*

# Exercise 6: 2nd Column, Friends List

(See example screenshot on next slide.)

Add a second column to the layout. Copy and paste the following code into `journal.html`:

```
<h1>Friends</h1>
<ul>
    <li><a href="http://www.alquds.edu/190m/">Al-Quds University</a></li>
    <li><a href="http://www.willsmith.com/">Big Will</a></li>
    <li><a href="http://youtube.com/watch?v=mZHoHaAYHq8" title="Conan the
Librarian">Conan the Librarian</a></li>
</ul>
```

- Use the appropriate layout-related tags/attributes and CSS to make this list into a second, left-aligned column as shown below. The colors, borders, etc. of the list are not important; the focus is on the layout.
- **The layout with a second column must still be a liquid layout** -- that is, all parts of it should adjust in size accordingly when the browser size changes.
- *Hint:* When multiple elements float in the same direction, they arrange themselves into columns. Check the internet for "The clear Property" for more information.

# Exercise 6, example

This example is Victoria's  with the friends list:



# Exercise 7: (h4x0rz only): Yellow highlight

Write your  so that if you hover over *any* element (i.e. any header, paragraph, image, etc), the element is highlighted in yellow.

This must be a one-selector, one-property addition to your stylesheet -- no commas allowed! How can one rule apply to all elements? Google away! (Tricky.)

# Exercise 8: (h4x0rz only): Rounded borders

The new CSS version 3 introduces borders with rounded corners.

- If they don't have them already, place rounded corners on your journal borders.
- Try making each of the four corners have a different amount of roundedness.
- Google to find out how to make the roundedness be elliptical, that is, have different horizontal vs vertical size.
- If you finish that, consider exploring some other properties from CSS 3, such as text shadows or multiple text columns.

# If you finish them all...

If you finish all the exercises, you can add any other content or styles you like to your .

**Good Luck!**