1360 Web Design

Lab 1: HTML Practice

Submit to Canvas assignment

LAB 1: HTML Practice

- HTML
- File structure
- HTML Validator

HTML is all about **STRUCTURING CONTENT**.

Your page should be **readable** when you're finished with markup, but it <u>won't be pretty</u>.

Do NOT try to adjust the look and feel today beyond what we say in the directions... for example by using a lot of
br>
(PLEASE, NO!!!!)

NEXT WEEK -- we will start with the HTML you created today and add CSS styling.

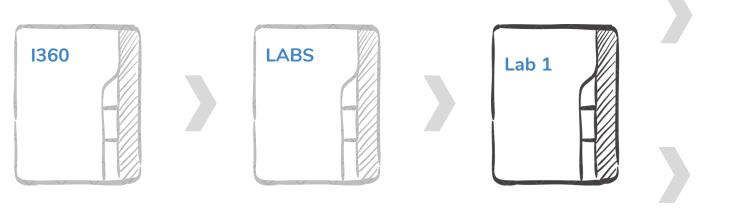
THEN it will look better.

Be patient.

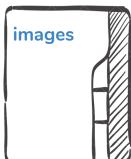
File structure

1. Download the **Lab 1** files for today and place in your I360 folder setup >>> DO NOT LEAVE YOUR FILES IN DOWNLOADS

Open in VS Code with File > Open... then add to a Workspace OR
 Try creating the workspace and then adding the folder.



- 3. Create a new HTML file chocolate-chip-cookies.html
- 4. Open the HTML file (Preview or in Chrome or Firefox) (page will be blank)



chocolatechipcookies .html

Look back at the slides for Lessons 1 & 2

Remind yourself of the steps needed to (1) **finish preparations** and (2) **markup the HTML**

NOTE: For Project 1, much of the HTML you will need can be found in our **P1 Demo** or in **02 Essential HTML** on Canvas

LAB 1 Details

- Place one image at the top of the page using IMG
- Place the other image between "Recipe courtesy of..." and "Total: 1 hr 50 min" using the FIGURE / IMG / FIGCAPTION
- The title should be your **H1**. It is also a link (A) to the recipe.
- The section starting with "Total: 1 hr 50 min" is a small TABLE
- Use both an unordered and an ordered list
- Use SMALL for the copyright line at the bottom
- Use an HTML entity for the **copyright** symbol at the bottom of the content
- Copy/paste lab-1-styles.txt into the HEAD of your HTML document (under TITLE)
 - INCLUDED IN YOUR RESOURCES FOR TODAY NO NEED TO TYPE IN
 - You'll need to add <div class="container"></div> that the styles attach to in the HTML
 - follow the directions in the next few slides

1) Add a container around your content

Problem: Our content stretches too far -- it's too wide!

We need an HTML element to serve as a **container** for our content — a way to control the width of the content displayed the browser.

The <div> tag is the most generic container within HTML. It stands for "division" and basically means "make a box here".

2) Add styles to container & images

```
<style>
  .container {
       width: 720px;
       margin: 35px auto; /* centers the container */
       border: 1px solid black;
       padding: 50px;
       background-color: #FFFFFF;
  img {
       /* forces images to pay attention to parent */
       width: 100%;
       display: block;
</style>
```

we'll go through CSS in detail on Day 3 & 4, but we want to go ahead and add this bit today in order to control our page.

BTW, CSS in the HEAD

(in a STYLE tag anywhere <u>AFTER</u>

META... that location is important)

is called an internal style sheet.

2A) Add basic styling to your container

```
<head>
                                                The STYLE tag is used to include CSS inside an HTML page (within the HEAD)
    <style>
    .container {
                                                Arbitrary choice dependent on project
         width: 720px;
                                                Centers a block-level element, but ONLY
         margin: 35px auto; ←
                                                IF it has a width narrower than 100%.
         border: 1px solid black;
         padding: 50px;
                                                Adds a border. Adds space between
         background-color: #FFFFF;
                                                the border and the content.
    </style>
                                                Changes the background to white.
```

</head>

2B) Get your images to behave

Problem: Now our images don't fit!

```
<head>
    <style>
    img {
         width: 100%;
         display: block;
    </style>
</head>
```

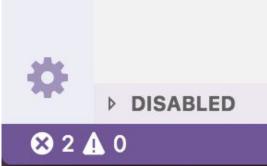
Tells the image to pay attention to the width of its parent (container).

The image will now behave like we expect it to and will act like a block-level element pushing other content before and after it instead of trying to appear inline.

3) Final step: Validate your code

Make sure you have no errors in VS Code

- No added extension needed.
- Errors show up as red squiggles in the code
- Details can be found by clicking on the error notifications in the lower left corner of the VS Code interface.
- The VS Code error checker WILL NOT catch unclosed HTML tags and some other basic issues. It will be up to you to make sure all that is in place.



<!DOCTYPE html> <html lang="en"> 2 Indicates an error 3 <head> Error messages and errors <meta charset="UTF-8"> will sometimes not be that <meta name="viewport" content="width=device-width,</pre> helpful. Know that the issue initial-scale=1.0"> may be with where the error <meta http-equiv="X-UA-Compatible"</pre> 6 is indicated or it might be content="ie=edge"> ABOVE that line and it just took the checker a bit to <title>Example</title> catch that it wasn't an 8 <body> expected value that followed. 9 </head> 10 <h1>I360 Web Design</h1> Click the notifications for more details. Try fixing issues 11 In this course, we will be learning the one at a time from top to foundations of web development. bottom of your code. 12 <0l> 13 HTML CSS 14 15 16 </body> 17 </html>

3) Final step: Validate your code

At several points in our development stage, we will want to more thoroughly check the validation. Run code through the https://validator.w3.org/ validator as many times as needed:

- Paste code into "direct input" tab
- Click "check" to see if any errors are caught
- This is the first of many ways to debug a web page
- Use AS NEEDED to debug your code, and to check if it's valid

HINT: We'll run your project code through a validator... you probably should too!

Using the W3C validator:

- If the validator shows a red bar and says there are errors, go back to your editor and go line by line in your code. Try to fix the issues one at a time, then revalidate. TIP: The error will likely be ON or ABOVE the line indicated.
- Keep fixing / testing until the validator shows a green bar saying no errors.

HOW TO TEST

Select all of your code with COMMAND-A (CTRL-A)

Copy the code with COMMAND-C (CTRL-C)

Paste the code into the box under "Direct Input" tab in the validator.

COMMAND-V (CTRL-V)

Click the **CHECK** button.

Did you...

Hang on to this code. We will style the page you marked up today in our next lab.

- Replace special characters found in the content with the corresponding HTML entities to improve your typography? (i.e. double quote marks)
- Add all the required HTML code needed for a valid, blank web page?
- Markup ALL of the text content with HTML tags nothing should remain as just plain text
- Add a div with class container then apply the structural CSS we gave you?
- Validate your HTML and attempt to fix any errors?

Did you learn today's skills?

If you are not sure on any of these, please attend a help session:

Can you...

- Complete a basic FIND AND REPLACE in VS Code
- Use **keyboard shortcuts** to indent / unindent, comment / uncomment a block of code
- Explain how your images show up what does 'images/' do for us?
- Complete the lab using web standard HTML
- Understand and be able to set up a basic file structure for your project
- Validate your code using keyboard shortcuts, e.g. using
 SELECT ALL, CUT, COPY, PASTE... and the amazing UNDO

Save this project for use in lab next week.