I360 Web Design

Lab 1: HTML Practice

Keyboard Shortcuts (AI Demo)

First select several lines of code...

PC users:

Replace **COMMAND**

with **CONTROL.**

Indent and un-indent a block of code

COMMAND {

COMMAND }

Comment / uncomment a block of code

COMMAND / (this one is a toggle - try it multiple times to see what happens)

Keyboard Shortcuts (AI Demo)

SELECT ALL

COMMAND A

PASTE

COMMAND V

CUT

COMMAND X

UNDO

COMMAND Z

COPY

COMMAND C

PC users:

Replace **COMMAND** with **CONTROL.**

TODAY:

- HTML
- File structure
- HTML Validator

HTML is all about **STRUCTURING CONTENT**.

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

Do NOT try to adjust the look and feel today beyond what we say in the directions... for example by using a lot of

(PLEASE, NO!!!!)

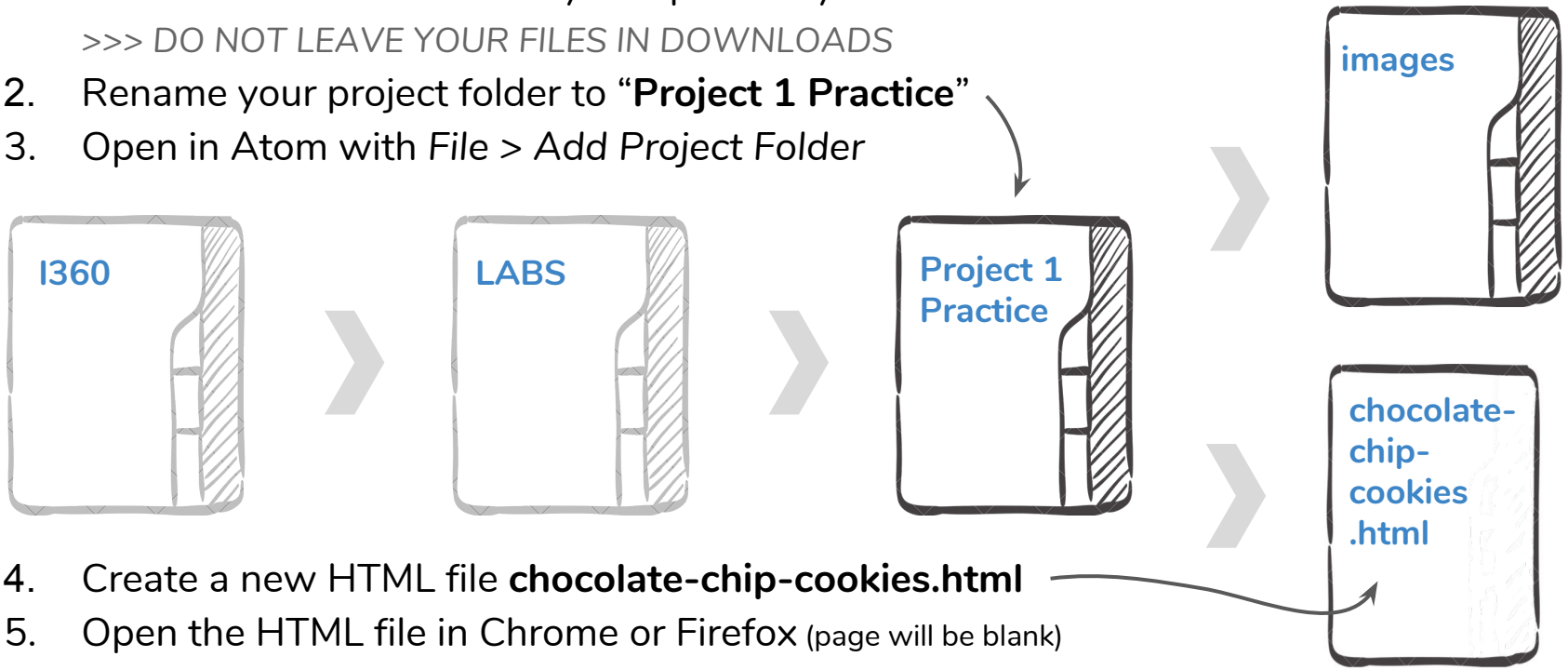
NEXT WEEK -- we will start with the HTML you created today and add CSS styling.

THEN it will look better.

Be patient.

File structure

1. Download the files for today and place in your I360 folder
   >>> DO NOT LEAVE YOUR FILES IN DOWNLOADS
2. Rename your project folder to "**Project 1 Practice**"
3. Open in Atom with *File > Add Project Folder*



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

Look back at the slides for Day 1 & 2

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

NOTE: For Project 1, all of the HTML you will need can be found in the ***Essential HTML and CSS*** *reference 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 **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 and 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 ** ** 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.

```
<body>
    <div class="container">
        Content goes here
    </div>
</body>
```

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

NOTE: This code has been provided for you in the Lab 1 resources for today.

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 AFTER META... that location is important) is called an internal style sheet.

NOTE: This code has been provided for you in the Lab 1 resources for today.

2A) Add basic styling to your container

```
<head>
    ...
    <style>
    .container {
        width: 720px;
        margin: 35px auto;
        border: 1px solid black;
        padding: 50px;
        background-color: #FFFFFF;
    }
    </style>
</head>
```

The STYLE tag is used to include CSS inside an HTML page (within the HEAD)

Arbitrary choice dependent on project

Centers a block-level element, but ONLY IF it has a **width** narrower than 100%.

Adds a border. Adds space between the border and the content.

Changes the background to white.

NOTE: This code has been provided for you in the Lab 1 resources for today.

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 act 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

Run code through the validator as many times as needed:

https://validator.w3.org/

- 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 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...

Anything you didn't finish today should be considered **homework**. We will style the code 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?

Get CHECKED IN by an AI:

For your participation today:

- Demonstrate a basic **FIND AND REPLACE** in Atom
- Use **keyboard shortcuts** to indent / un-indent and comment / uncomment a block of code
- Explain how your **images** show up - what does *images/* do for us?
- Show your in-progress / completed **web standard HTML** to the AI, including the **file structure** of your project.
- **Validate** your code for the AI using **keyboard shortcuts**, e.g. using **SELECT ALL**, **CUT**, **COPY**, **PASTE**... and the amazing **UNDO**

Save this project for use in lab next week.