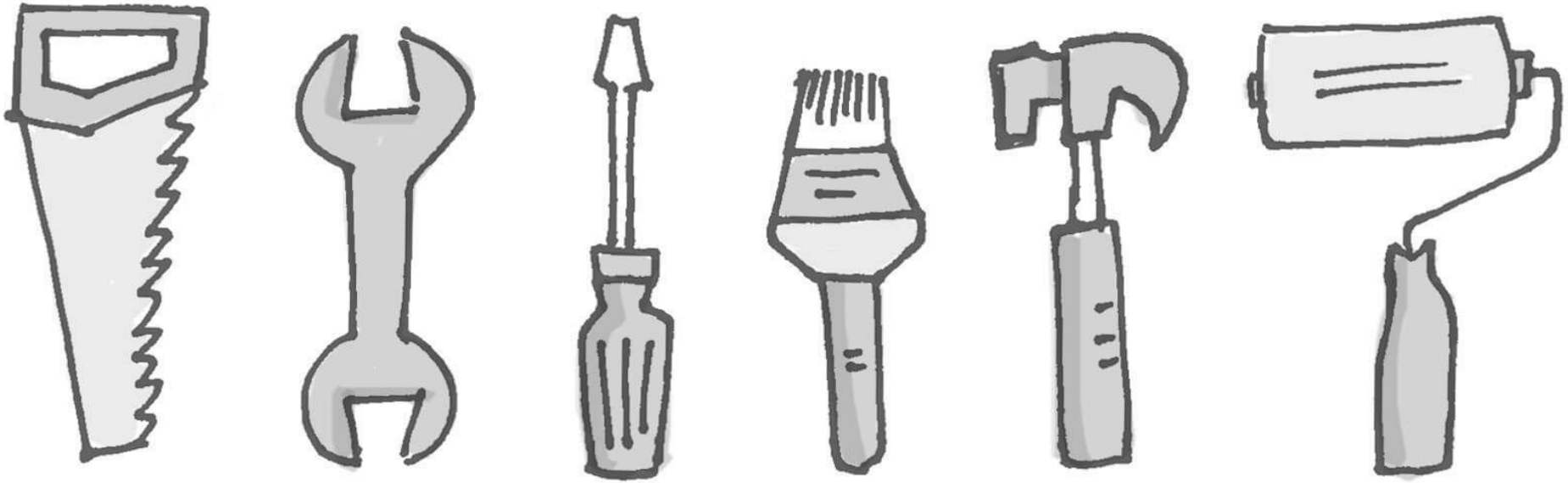
I360 Web Design

Module 1: Day 1

Tools, HTML, Project 1 Demo

00 Welcome to I360
01 The Web



Your tools

Text Editor • Browser • workflow

Text Editor

https://atom.io/

- Bring a laptop to class & lab
- **Create a folder** for all of your work in I360

Web Browser & Developer Tools

This semester we will only use **Chrome** or the **new Firefox**.

We will grade your work using these browsers. Your code only needs to work in those browsers and not perfectly in ALL browsers.

Note: All projects except the final project will be local and NOT on a server.

➡ *Inspect this page using your browser's developer tools:*

https://www.sice.indiana.edu/undergraduate/degrees-certificates/bs-informatics/index.html

Our first workflow

Prepare

- Have a *plan* for the site you want to create
- Collect *resources* into a project folder
- Open your **text editor** and **browser**
- Add the code needed for an empty web page
- Open your page in the browser

we'll talk more about project planning as the semester progresses.

Eventually we'll use a **template** (provided in class) for the more repetitive parts of the set up.

Markup the HTML

- Replace *special characters* in the text
- Add *content* to your empty web page
- Markup the content using **HTML** tags
- *Validate* the HTML as you work

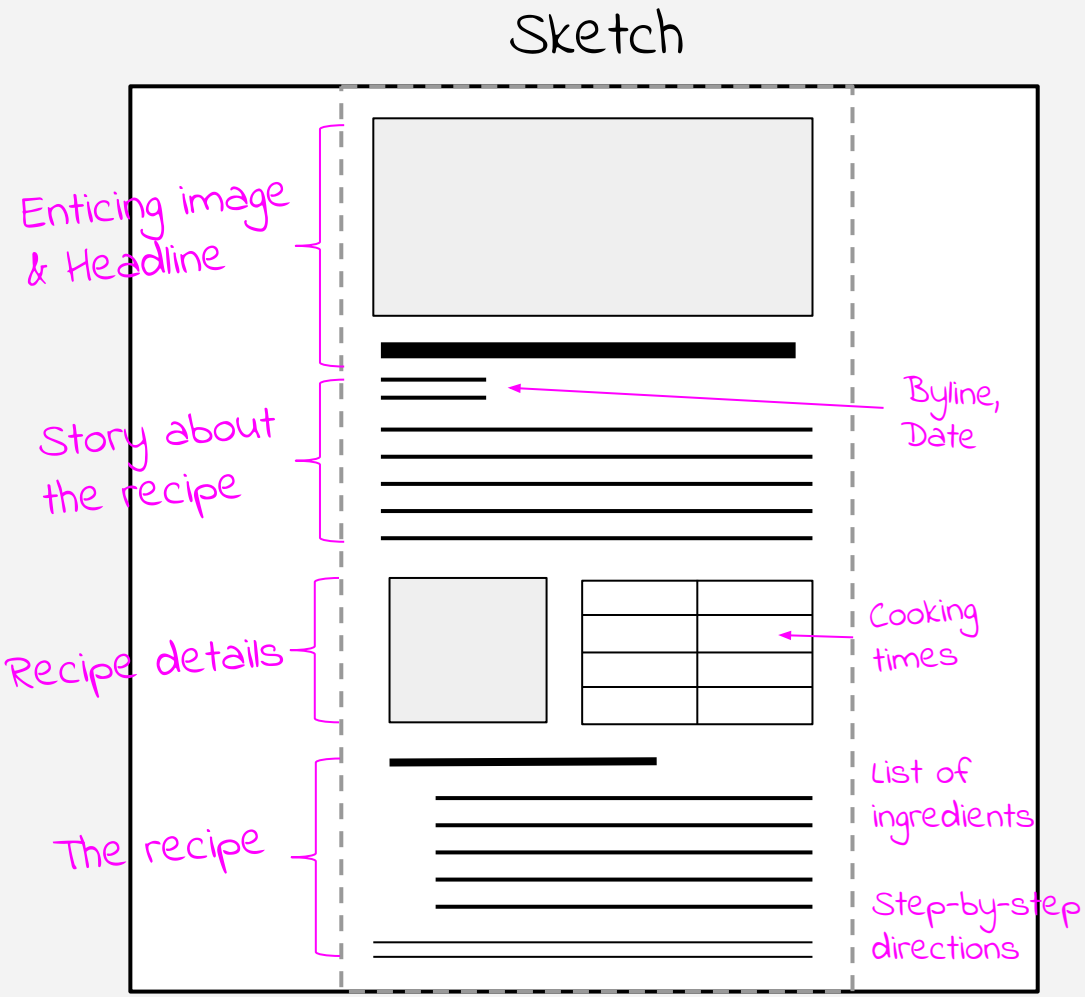
Project 1 Demo: The Recipe

Prepare: The plan

A recipe web page

- Photos of food
- Recipe name
- Recipe description
- Recipe details
- Ingredients list
- Step-by-step directions
- Related recipes
- Nutritional information
- Etc…

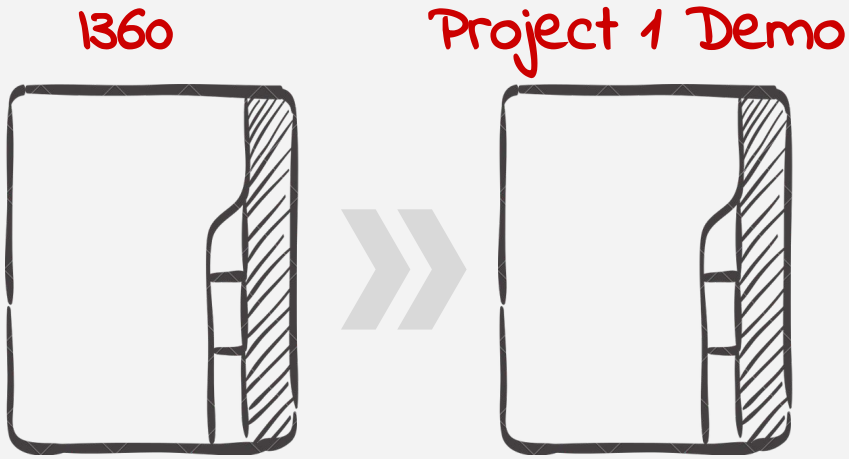
We've done this for you to start...



Prepare: Set up a Project Folder

1. **Download the resources for today and place into your I360 folder.**

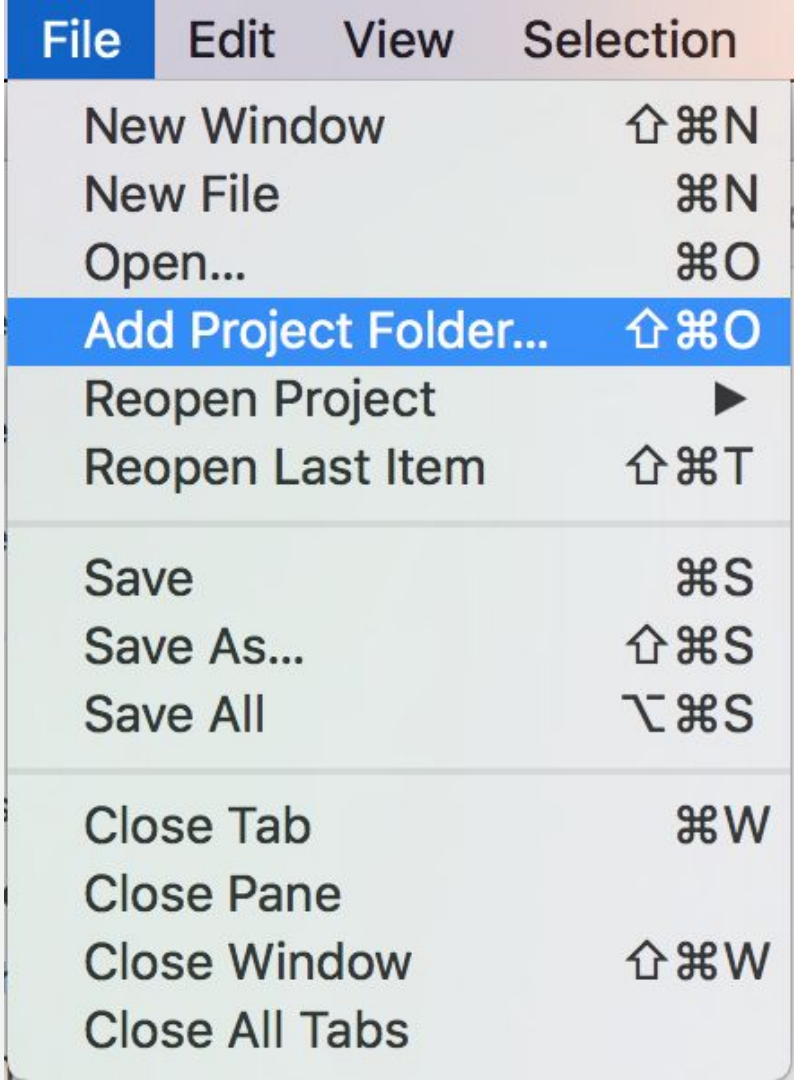
2. **Make sure your project folder has a name.**
   It should be "*Project 1 Demo*" or similar.



- We'll add our new HTML page here
- Images in an "**images**" folder
- Content (.txt)

Prepare: open / Create an HTML page in Atom

- Adding the Project Folder allows you to see all of the files from a project grouped together



Replace any special characters in text content

“	“
”	”
--	—
’	’
&	&

Complete list of HTML entities:
http://character-code.com/

In Atom, use **Find** (COMMAND-F) to search for these special characters. only replace the ones that need to be replaced. Be careful when selecting "replace all."

1. Open the text file for today with Atom
2. Find and replace these special characters to show that you have paid attention to typography and design

Prepare: Add required empty web page HTML

```
<!doctype html>
<html lang="en">
    <head>
        <meta charset="utf-8">
        <title>Title</title>

    </head>
    <body>
        Content
    </body>
</html>
```

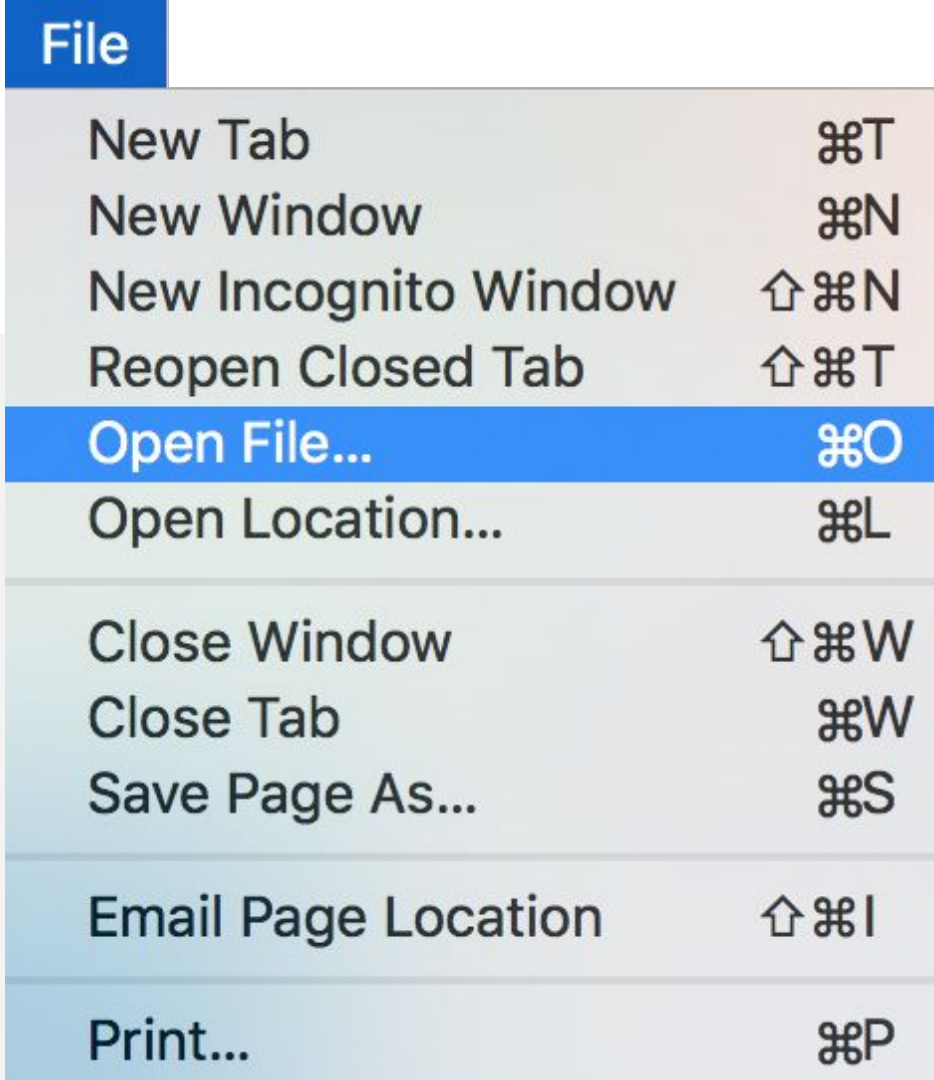
This is the **MINIMUM** needed for a valid, blank web page.

1. Create a new page in Atom and save as "**chicken-wonton-soup.html**"
2. Type in this code, adding your own information to <title>
3. Paste content BETWEEN <body> tags
4. Make sure to **SAVE** as you go
5. Open your HTML page in the browser
   (see next slide)

Prepare: open the HTML page in a browser

- In either Chrome or the new Firefox, choose *File* > *Open File…* select the **HTML** page

*Nothing will appear...*a blank screen within the browser window. BUT, the **tab** on the browser should be the **<title>** from your new page.



UP NEXT: Markup the content using HTML

Use the **Essential HTML and CSS** reference from Canvas.

- Remember, nearly all HTML tags have an opening and closing tag around the content that you want to markup.
- The closing tag has a slash before the tag's ID

```
<h1>World's Best Cheesecake</h1>
```

Q1: What does an empty HTML tag look like from a browser's perspective?

Q2: How are spaces in marked-up content treated by the browser?

UP NEXT: 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**

We’ll run your project’s code through the validator… you should too!

HOMEWORK

If you didn’t finish installing Atom or setting up your Project 1 Demo for next class, this is your **homework**.

- Next class we’ll remind ourselves about how to mark-up the **HTML**
- We’ll add in **images** and **links**
- And we’ll try out the **validator** together