

J220: Intro to Coding


Class 2
Monday Jan. 31

**Note to
lecturers:**
start Zoom
recording

TOPIC:

1. HTML, continued
2. Preparing a simple portfolio

Agenda

- Announcements/Reminders
- Lightning review on iClicker
- Text Editor (making your code readable)
- Semantic HTML
- Hierarchy
- Catching bugs 

Break

- File structure
- Class workshop

Announcements/reminders

- Message both Yoli and Soo in a group DM on Slack for logistical questions or requests about attendance, tardiness, assignments, etc.
- Do not take off your masks in class for water or food. Step outside if you need to drink water, doing your best to disrupt the class as little as possible.
- OK to remotely attend* lectures today, Feb. 7, and Feb. 14. We will discuss near Presidents' Day how we want to move forward.
 - * With the understanding that the livestream and/or recordings may be low quality; that wifi may be spotty; that auto-transcriptions might not be accurate; that we might not see your questions if we are helping others in the classroom and are away from the chat. Please remember that we are doing our best.



Lightning Review



Sign into iClicker.com

1. How do you mark up the closing tag?

```
<p>Beware, for I am fearless and  
therefore powerful. 
```

Quote from Mary Shelley's *Frankenstein*

1. How do you mark up the closing tag?

```
<p>Beware, for I am fearless and  
therefore powerful.</p>
```

Quote from Mary Shelley's *Frankenstein*

2. What's the correct *attribute* for a link?

```
<p>The assigned reading is  
posted on the <a  
[ ]="https://journ  
220.github.io/">J220 course  
website</a>.</p>
```

- A. alt
- B. href
- C. name
- D. src
- E. url

2. What's the correct *attribute* for a link?

```
<p>The assigned reading is  
posted on the <a  
href="https://journ  
220.github.io/">J220 course  
website</a>.</p>
```

A. alt

B. href

C. name

D. src

E. url

3. How do you mark up comments in HTML?

A. `<-- This is the right way. -/>`

B. `<%- No, this is the right way. -%>`

C. `{= You're wrong, this is the method. =}`

D. `<!-- Excuse me, this is the right way. -->`

E. `<?-- This is the correct comment. --?>`

3. How do you mark up comments in HTML?

A. `<-- This is the right way. -/>`

B. `<%- No, this is the right way. -%>`

C. `{= You're wrong, this is the method. =}`

D. `<!-- Excuse me, this is the right way. -->`

E. `<?-- This is the correct comment. --?>`

4. What are the attributes for (a), (b)?



```
<img (a) ="https://images.pexels.com/photos/1624496/pexels-photo-1624496.jpeg?auto=compress&cs=tinysrgb&dpr=3&h=256&w=384" (b) ="snow capped mountain at night under a starry sky">
```

4. What are the attributes for (a), (b)?



```

```

5. Which example(s) show proper nesting?

```
<p>You can find placeholder  
images of dogs on <a  
href="https://placedog.net/  
>placedog.net</a>.</p>  
</p>
```

A.

```
<p>You can find placeholder  
images of dogs on <a  
href="https://placedog.net/  
>placedog.net</a>.</p>  

```

B.

```
<p>You can find placeholder  
images of dogs on <a  
href="https://placedog.net/  
>placedog.net.</p>  
</a>
```

C.

5. Which example(s) show proper nesting?

```
<p>You can find placeholder  
images of dogs on <a  
href="https://placedog.net/  
>placedog.net</a>.</p>  
</p>
```

A.

```
<p>You can find placeholder  
images of dogs on <a  
href="https://placedog.net/  
>placedog.net</a>.</p>  

```

B.

```
<p>You can find placeholder  
images of dogs on <a  
href="https://placedog.net/  
>placedog.net.</p>  
</a>
```

C.

Text Editor, and
making your
code readable



Text Editor

You can write code anywhere, but a text editor will:

1. Make it readable

```
<!DOCTYPE html>
<html>
  <head>
    <!-- metadata goes here -->
  </head>
  <body>
    <header>
      <h1>This is a h1 header</h1>
      <h2>This is a subhead, which is wrapped in an h2</h2>
    </header>
    <nav>
      <ul>
        <li>Link 1</li>
        <li>Link 2</li>
        <li>Link 3 </li>
      </ul>
    </nav>
    <article>
      <h3>This is an article header</h3>
      <p>This is an opening section that also has a <a
href="www.oaklandnorth.net">link to a website</a>.</p>
      <p>Adding a second paragraphs for good measure</p>
      
      <p>Finishing paragraph.</p>
    </article>
  </body>
</html>
```


Text Editor

You can write code anywhere, but a text editor will:

1. Make it readable
2. Give you visual cues when tags are not closed

```
<!DOCTYPE html>
<html>
  <head>
    <!-- metadata goes here -->
  </head>
  <body>
    <header>
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href="www.oaklandnorth.net">link to a website</a>.</p>
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      <p>Finishing paragraph.</p>
    </article>
  </body>
</html>
```

Text Editor

You can write code anywhere, but a text editor will:

1. Make it readable
2. Give you visual cues when tags are not closed
3. Allows you to leave comments.

```
<!DOCTYPE html>
<html>
  <head>
    <!-- metadata goes here -->
  </head>
  <body>
    <header>
      <h1>This is a h1 header</h1>
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    </nav>
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      <p>Finishing paragraph.</p>
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  </body>
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Text Editor

You can write code anywhere, but a text editor will:

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3. Allows you to leave comments.

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<!DOCTYPE html>
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    <!-- metadata goes here -->
  </head>
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      <h1>This is a h1 header</h1>
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    <nav>
      <ul>
        <li>Link 1</li>
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      <p>Finishing paragraph.</p>
    </article>
  </body>
</html>
```

Text Editor

Also notice how things are being formatted.

There is spacing and indentation to be aware of.

Let's take a closer look.

```
<!DOCTYPE html>
<html>
  <head>
    <!-- metadata goes here -->
  </head>
  <body>
    <header>
      <h1>This is a h1 header</h1>
      <h2>This is a subhead, which is wrapped in an h2</h2>
    </header>
    <nav>
      <ul>
        <li>Link 1</li>
        <li>Link 2</li>
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      </ul>
    </nav>
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      <h3>This is an article header</h3>
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href="www.oaklandnorth.net">link to a website</a>.</p>
      <p>Adding a second paragraphs for good measure</p>
      
      <p>Finishing paragraph.</p>
    </article>
    <footer>
      <p>Copyright @2022</p>
    </footer>
  </body>
</html>
```

Text Editor

Here's an empty HTML page.

Ignore the fact that you might not know what these tags are. Let's look at how they are spaced

```
<!DOCTYPE html>
<html>
  <head>
    <!-- metadata goes here -->
  </head>
  <body>
    <!-- stuff inside of body -->
  </body>
</html>
```

Text Editor

<!DOCTYPE html>

All HTML documents have to start with this declaration. It lets the browser know that the page is an HTML document.

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    <!-- metadata goes here -->
```

```
  </head>
```

```
  <body>
```

```
    <!-- stuff inside of body -->
```

```
  </body>
```

```
</html>
```

Text Editor

This is followed by the `<html>` tag.
It needs to wrap around the whole document.

It should have no indentation.

```
<!DOCTYPE html>
<html>
  <head>
    <!-- metadata goes here -->
  </head>
  <body>
    <!-- stuff inside of body -->
  </body>
</html>
```


Text Editor

This is followed by the `<html>` tag. It needs to wrap around the whole document.

It should have no indentation.

Some text editors also give you a faint gray line that connects the opening and closing tags. It helps with lining up your document.

```
<!DOCTYPE html>
<html>
  <head>
    <!-- metadata goes here -->
  </head>
  <body>
    <!-- stuff inside of body -->
  </body>
</html>
```

Text Editor

Let's now look at the **<head>** tag.

```
<!DOCTYPE html>
<html>
  <head>
    <!-- metadata goes here -->
  </head>
  <body>
    <!-- stuff inside of body -->
  </body>
</html>
```

Text Editor

Let's now look at the `<head>` tag.

Why does it have space in front of it?

```
<!DOCTYPE html>
<html>
  <head>
    <!-- metadata goes here -->
  </head>
  <body>
    <!-- stuff inside of body -->
  </body>
</html>
```

Text Editor

Let's now look at the `<head>` tag.

Why does it have space in front of it?

Because it is a nested element inside of the `<html>` tag.

```
<!DOCTYPE html>
<html>
  <head>
    <!-- metadata goes here -->
  </head>
  <body>
    <!-- stuff inside of body -->
  </body>
</html>
```

Text Editor

Anytime something is nested inside of another tag, you should add 2-4 spaces (or click the tab key) to create the spacing.

```
<!DOCTYPE html>
<html>
  <head>
    <!-- metadata goes here -->
  </head>
  <body>
    <!-- stuff inside of body -->
  </body>
</html>
```

Text Editor

Anytime something is nested inside of another tag, you should add 2-4 spaces (or click the tab key) to create the spacing.

Why is this necessary?

```
<!DOCTYPE html>
<html>
  <head>
    <!-- metadata goes here -->
  </head>
  <body>
    <!-- stuff inside of body -->
  </body>
</html>
```

Text Editor

The browser does not care about spacing.

Text Editor

The browser does not care about spacing.

You can have a page set up like this and it would be able to build it correctly.

```
<!DOCTYPE html><html><head><!--  
metadata goes here  
--></head><body><!-- stuff inside of  
body --></body></html>
```


Text Editor

BUT THIS IS HARD FOR A
HUMAN TO READ (AND EDIT)!

```
<!DOCTYPE html><html><head><!--  
metadata goes here  
--></head><body><!-- stuff inside of  
body --></body></html>
```

Text Editor

So why focus on spacing?

Remember, you are not just writing code for the browser. You are writing it for yourself and anyone else who might be collaborating with you now (or in the future!)

```
<!DOCTYPE html><html><head><!--  
metadata goes here  
--></head><body><!-- stuff inside of  
body --></body></html>
```

Text Editor

So using correct spacing shows that you can be organized with your code and are being a thoughtful collaborator.

```
<!DOCTYPE html>
<html>
  <head>
    <!-- metadata goes here -->
  </head>
  <body>
    <!-- stuff inside of body -->
  </body>
</html>
```

Text Editor

As you learn more HTML and start building pages, this HTML in a text editor will start looking less scary. You'll see how the text editor is helping you.

```
<!DOCTYPE html>
<html>
  <head>
    <!-- metadata goes here -->
  </head>
  <body>
    <header>
      <h1>This is a h1 header</h1>
      <h2>This is a subhead, which is wrapped in an h2</h2>
    </header>
    <nav>
      <ul>
        <li>Link 1</li>
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    </nav>
    <article>
      <h3>This is an article header</h3>
      <p>This is an opening section that also has a <a
href="www.oaklandnorth.net">link to a website</a>.</p>
      <p>Adding a second paragraphs for good measure</p>
      
      <p>Finishing paragraph.</p>
    </article>
    <footer>
      <p>Copyright @2022</p>
    </footer>
  </body>
</html>
```

Text Editor

Here are some best practices:

```
<!DOCTYPE html>
<html>
  <head>
    <!-- metadata goes here -->
  </head>
  <body>
    <header>
      <h1>This is a h1 header</h1>
      <h2>This is a subhead, which is wrapped in an h2</h2>
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    </article>
    <footer>
      <p>Copyright @2022</p>
    </footer>
  </body>
</html>
```

Text Editor

Here are some best practices:

1. Keep your `<head>` and `<body>` tags at the same indentation. They are your two structural anchors on the page

```
<!DOCTYPE html>
<html>
  <head>
    <!-- metadata goes here -->
  </head>
  <body>
    <header>
      <h1>This is a h1 header</h1>
      <h2>This is a subhead, which is wrapped in an h2</h2>
    </header>
    <nav>
      <ul>
        <li>Link 1</li>
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href="www.oaklandnorth.net">link to a website</a>.</p>
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      <p>Finishing paragraph.</p>
    </article>
    <footer>
      <p>Copyright @2022</p>
    </footer>
  </body>
</html>
```

Text Editor

Here are some best practices:

1. Keep your `<head>` and `<body>` tags at the same indentation. They are your two anchors on the page
2. Inside of the `<body>`, anything that appears nested inside receives a second indentation.

```
<!DOCTYPE html>
<html>
  <head>
    <!-- metadata goes here -->
  </head>
  <body>
    <header>
      <h1>This is a h1 header</h1>
      <h2>This is a subhead, which is wrapped in an h2</h2>
    </header>
    <nav>
      <ul>
        <li>Link 1</li>
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      <h3>This is an article header</h3>
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href="www.oaklandnorth.net">link to a website</a>.</p>
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      <p>Finishing paragraph.</p>
    </article>
    <footer>
      <p>Copyright @2022</p>
    </footer>
  </body>
</html>
```

Text Editor

Here are some best practices:

1. Keep your `<head>` and `<body>` tags at the same indentation. They are your two anchors on the page
2. Inside of the `<body>`, anything that appears nested inside receives a second indentation.
 - a. Look at the `` inside of `<nav>`

```
<!DOCTYPE html>
<html>
  <head>
    <!-- metadata goes here -->
  </head>
  <body>
    <header>
      <h1>This is a h1 header</h1>
      <h2>This is a subhead, which is wrapped in an h2</h2>
    </header>
    <nav>
      <ul>
        <li>Link 1</li>
        <li>Link 2</li>
        <li>Link 3</li>
      </ul>
    </nav>
    <article>
      <h3>This is an article header</h3>
      <p>This is an opening section that also has a <a
href="www.oaklandnorth.net">link to a website</a>.</p>
      <p>Adding a second paragraphs for good measure</p>
      
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    </article>
    <footer>
      <p>Copyright @2022</p>
    </footer>
  </body>
</html>
```


Text Editor

Here are some best practices:

1. Keep your `<head>` and `<body>` tags at the same indentation. They are your two anchors on the page
2. Inside of the `<body>`, anything that appears nested inside receives a second indentation.
 - a. Look at the `` inside of `<nav>`
 - b. Look at the `<h3>` and `<p>` inside of `<article>`

```
<!DOCTYPE html>
<html>
  <head>
    <!-- metadata goes here -->
  </head>
  <body>
    <header>
      <h1>This is a h1 header</h1>
      <h2>This is a subhead, which is wrapped in an h2</h2>
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    </nav>
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      <h3>This is an article header</h3>
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href="www.oaklandnorth.net">link to a website</a>.</p>
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      <p>Finishing paragraph.</p>
    </article>
    <footer>
      <p>Copyright @2022</p>
    </footer>
  </body>
</html>
```

Text Editor

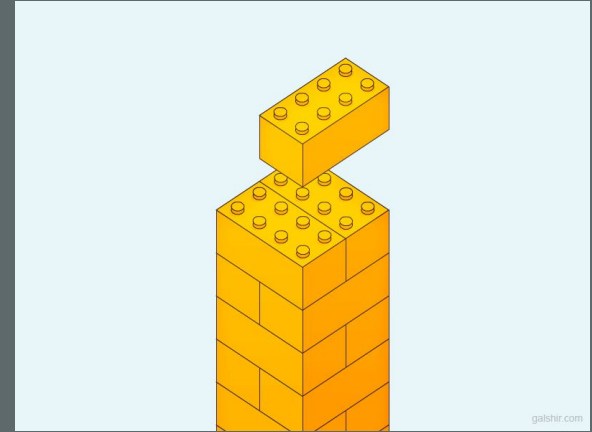
The text editor will show you proper nesting, some typos and make it all readable.

```
<!DOCTYPE html>
<html>
  <head>
    <!-- metadata goes here -->
  </head>
  <body>
    <header>
      <h1>This is a h1 header</h1>
      <h2>This is a subhead, which is wrapped in an h2</h2>
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    </article>
    <footer>
      <p>Copyright @2022</p>
    </footer>
  </body>
</html>
```

Readable code

Making code readable is something you'll always be working on. Don't worry if you are so focused on your first runthrough that you forget about adding spacing and tabs. We all do this. Just take the time in the end to review your code.

Semantic HTML



Semantic HTML

What is it?

Both humans and the browsers read the document. But there are tags that make is easy for both the browser and the person reading to the code to know what is being built.

```
<!DOCTYPE html>
<html>
  <head>
    <!-- metadata goes here -->
  </head>
  <body>
    <header>
      <!--Stuff in header -->
    </header>
    <nav>
      <!--Stuff in nav -->
    </nav>
    <article>
      <!--Stuff in article -->
    </article>
    <footer>
      <!--Stuff in footer -->
    </footer>
  </body>
</html>
```

Semantic HTML

The `<head>` tag is read by the browser. It should include all your **metadata**.

This is not seen by readers. But it is necessary because the **metadata** tells the browser what it'll find on your page and how to process it.

```
<!DOCTYPE html>
<html>
  <head>
    <!-- metadata goes here -->
  </head>
  <body>
    <header>
      <!--Stuff in header -->
    </header>
    <nav>
      <!--Stuff in nav -->
    </nav>
    <article>
      <!--Stuff in article -->
    </article>
    <footer>
      <!--Stuff in footer -->
    </footer>
  </body>
</html>
```

Semantic HTML: Inside <head>

The **metadata** in **<head>** can include the following:

```
<head>
  <meta charset="utf-8">
  <meta name="viewport"
content="width=device-width,initial-scale=1"
">
  <title>First web page</title>
  <meta name="description" content="Page
showing all the HTML I have learned.">
  <link rel="stylesheet" href="main.css">
</head>
```

Semantic HTML: Inside <head>

The **metadata** in **<head>** can include the following:

<meta charset="utf-8">

This tag will specify the “character set” to the latest, most universal range of characters for many different languages.

```
<head>
  <meta charset="utf-8">
  <meta name="viewport"
content="width=device-width,initial-scale=1"
">
  <title>First web page</title>
  <meta name="description" content="Page
showing all the HTML I have learned.">
  <link rel="stylesheet" href="main.css">
</head>
```


Semantic HTML: Inside <head>

The **metadata** in **<head>** can include the following:

**<meta name="viewport"
content="width=device-width,
initial-scale=1">**

It will set your page up for mobile compatibility so that the initial scale is equivalent to the resolution of the device. By changing the initial-scale to a different number (1 is the same as 100%) may make your web page appear zoomed in.

```
<head>
  <meta charset="utf-8">
  <meta name="viewport"
content="width=device-width,initial-scale=1"
">
  <title>First web page</title>
  <meta name="description" content="Page
showing all the HTML I have learned.">
  <link rel="stylesheet" href="main.css">
</head>
```

Semantic HTML: Inside <head>

The **metadata** in **<head>** can include the following:

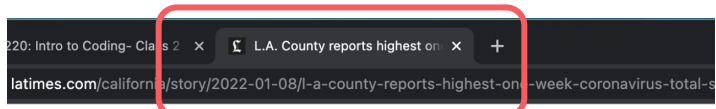
<title>First webpage</title>

This won't appear on the page itself, but rather at the top of the browser, and when people bookmark or link to the page. (And in some Google search results.)

```
<head>
  <meta charset="utf-8">
  <meta name="viewport"
content="width=device-width,initial-scale=1"
">
  <title>First web page</title>
  <meta name="description" content="Page
showing all the HTML I have learned.">
  <link rel="stylesheet" href="main.css">
</head>
```

Semantic HTML: <head>

Top of browser tab



Los Angeles Times



CALIFORNIA

L.A. County reports highest one-week total of pandemic



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L.A. County reports highest one-week coronavirus total ...

Los Angeles County continued to report a high number of new coronavirus cases Saturday amid an Omicron-fueled surge that has yet to abate. County public health officials announced they had recorded more than 200,000 new coronavirus cases over the past seven days, the highest one-week total since the pandemic began.

Semantic HTML: Inside <head>

The **metadata** in **<head>** can include the following:

**<meta name= “description”
content= “Page showing all the
HTML I have learned.”>**

This tag is an optional description you can add to the page that Google and other vendors use to knowing more about the page’s purpose and function. Be clear, descriptive and concise.

```
<head>
  <meta charset="utf-8">
  <meta name="viewport"
content="width=device-width,initial-scale=1"
">
  <title>First web page</title>
  <meta name="description" content="Page
showing all the HTML I have learned.">
  <link rel="stylesheet" href="main.css">
</head>
```

Semantic HTML: Inside <head>

Google search

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[L.A. County reports highest one-week coronavirus total ...](#)

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Los Angeles County continued to report a high number of new coronavirus cases Saturday amid an Omicron-fueled surge that has yet to abate. County public health officials announced they had recorded more than 200,000 new coronavirus cases over the past seven days, the highest one-week total since the pandemic began.

Semantic HTML: Inside <head>

The **metadata** in **<head>** can include the following:

**<link rel="stylesheet"
href="main.css">**

This tag optionally includes a separate CSS file that will style your page.

```
<head>
  <meta charset="utf-8">
  <meta name="viewport"
content="width=device-width,initial-scale=1
">
  <title>First web page</title>
  <meta name="description" content="Page
showing all the HTML I have learned.">
  <link rel="stylesheet" href="main.css">
</head>
```

Semantic HTML: Inside <head>

Quick note:

There are additional versions of these tags to customize heds and deks on Twitter (Cards) and Facebook (Open Graph). They also have specialized tags for share images.

Facebook:

```
<meta property="og:title" content="First webpage"/>
```

Twitter:

```
<meta name="twitter:title" content="First webpage"/>
```

```
<head>
  <meta charset="utf-8">
  <meta name="viewport"
content="width=device-width,initial-scale=1"
">
  <title>First web page</title>
  <meta name="description" content="Page
showing all the HTML I have learned.">
  <link rel="stylesheet" href="main.css">
</head>
```

Semantic HTML: What the reader sees

The **<body>** tag includes everything seen by the reader!

Here is where most semantic HTML tags are used. They help structure the page, but also, let you and the browser know what is nested inside.

```
<!DOCTYPE html>
<html>
  <head>
    <!-- metadata goes here -->
  </head>
  <body>
    <header>
      <!--Stuff in header -->
    </header>
    <nav>
      <!--Stuff in nav -->
    </nav>
    <article>
      <!--Stuff in article -->
    </article>
    <section>
      <!--Stuff in section -->
    </section>
    <footer>
      <!--Stuff in footer -->
    </footer>
  </body>
</html>
```


Semantic HTML: Inside <body>

Here are **some** examples....

```
<!DOCTYPE html>
<html>
  <head>
    <!-- metadata goes here -->
  </head>
  <body>
```

```
    </body>
  </html>
```

Semantic HTML: Inside <body>

Here are **some** examples....

1. **<header></header>** (not the same as the **<head>** that includes your metadata.

```
<!DOCTYPE html>
<html>
  <head>
    <!-- metadata goes here -->
  </head>
  <body>
    <header>
      <!--Stuff in header -->
    </header>

    </body>
  </html>
```

Semantic HTML: Inside <body>

```
<header>
```

```
  <h1>Yoli Martinez</h1>
```

```
  <h2>Page showing all the HTML I have learned.</h2>
```

```
</header>
```

```
<header></header>
```

This appears on top of your webpage. It should be one of the first elements inside your body tags.

With this tag, you are signifying that inside the browser will find important identifying information about the page it will display. Such as a headline or description.

*h tags will be reviewed later!

Semantic HTML: Inside <body>

Here are **some** examples....

1. <header></header> (not the same as the <head> that includes your metadata.
2. <nav></nav>

```
<!DOCTYPE html>
<html>
  <head>
    <!-- metadata goes here -->
  </head>
  <body>
    <header>
      <!--Stuff in header -->
    </header>
    <nav>
      <!--Stuff in nav -->
    </nav>

    </body>
  </html>
```

Semantic HTML: Inside `<body>`

```
<nav>

  <ul>

    <li>Home</li>

    <li>Blog</li>

    <li>Portfolio</li>

    <li>Contact</li>

  </ul>

</nav>
```

`<nav></nav>`

The top navigation for your webpage! It can be a dropdown, shown horizontally across the page or tucked in a hamburger icon.

These `` and `` elements could be surrounded by a undescriptive `<div>` or even a `<section>`, but by using `<nav>`, it is an identifying feature. Anyone reading or the browser will know this is the main navigation for you page.

Semantic HTML: Inside <body>

Here are **some** examples....

1. <header></header> (not the same as the <head> that includes your metadata.
2. <nav></nav>
3. <article></article>

```
<!DOCTYPE html>
<html>
  <head>
    <!-- metadata goes here -->
  </head>
  <body>
    <header>
      <!--Stuff in header -->
    </header>
    <nav>
      <!--Stuff in nav -->
    </nav>
    <article>
      <!--Stuff in article -->
    </article>

    </body>
  </html>
```

Semantic HTML: Inside <body>

<article>

<h3>Cranberry Spritzer Watermelon</h3>

<p>Bulgarian carrot strawberry mango smoothie
mediterranean tomato and basil blackberries cilantro lime
vinaigrette roasted butternut squash crispy iceberg lettuce
jalapeño bruschetta peppermint cherries salty sesame
soba noodles double dark chocolate kimchi picnic fig
arugula cashew salad spiced peppermint blast overflowing
cookies ginger tofu peaches red grapes. </p>

<p>Chia seeds basil miso dressing casserole avocado
basil pesto Thai super chili pasta citrusy pineapple salsa red
curry tofu noodles.</p>

</article>

<article></article>

The <article> tag describes a piece of syndicated content (where content changes on an interval, like a news website.)

Most of your content will live here.

Semantic HTML: Inside <body>

Here are **some** examples....

1. <header></header> (not the same as the <head> that includes your metadata.
2. <nav></nav>
3. <article></article>
4. <section></section>

```
<!DOCTYPE html>
<html>
  <head>
    <!-- metadata goes here -->
  </head>
  <body>
    <header>
      <!--Stuff in header -->
    </header>
    <nav>
      <!--Stuff in nav -->
    </nav>
    <article>
      <!--Stuff in article -->
    </article>
    <section>
      <!--Stuff in section -->
    </section>

    </body>
  </html>
```


Semantic HTML: Inside <body>

```
<section>
```

```
<h3>Contact</h3>
```

```
<p>For freelance or job opportunities reach me via <a  
href="mailto:fakeemail@berkeley.edu">fakeemail@berkeley.edu</  
a>.
```

```
<p>You can also reach me via social media</p>
```

```
<ul>
```

```
<li>Twitter: <a href=  
"https://twitter.com/twitterName">@TwitterName</a></li>
```

```
<li>Facebook: <a href= "https://facebook.com/fbName"  
>fbName</a></li>
```

```
</ul>
```

```
</section>
```

```
<section></section>
```

It's designed more for structuring static content that doesn't typically change much; think a "section" of a web page.

All sections typically come with an **h** tag, headlining what will be found inside

A **<section>** could wrap around your contact information or clips that don't change.

Semantic HTML: Inside <body>

Here are **some** examples....

1. <header></header> (not the same as the <head> that includes your metadata.
2. <nav></nav>
3. <article></article>
4. <section></section>
5. <footer></footer>

```
<!DOCTYPE html>
<html>
  <head>
    <!-- metadata goes here -->
  </head>
  <body>
    <header>
      <!--Stuff in header -->
    </header>
    <nav>
      <!--Stuff in nav -->
    </nav>
    <article>
      <!--Stuff in article -->
    </article>
    <section>
      <!--Stuff in section -->
    </section>
    <footer>
      <!--Stuff in footer -->
    </footer>
  </body>
</html>
```

Semantic HTML: Inside <body>

```
<footer>
```

```
  <ul>
```

```
    <li>Copyright @2022</li>
```

```
    <li>Subscribe to newsletter</li>
```

```
  </ul>
```

```
  
```

```
</footer>
```





```
<footer></footer>
```

It is the last element in your webpage. It can include copyright, legal info, sitemap and related links.

Most company pages have footers as well as news orgs.

HTML Document: Inside <body>

San Francisco Chronicle



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

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

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Semantic HTML: Inside <body>

As we'll learn later when working with CSS, being as descriptive as possible is helpful for you and for those loading your page.

“One of the best accessibility aids a screen reader user can have is an excellent content structure with headings, paragraphs, lists, etc.”

Read more:

<https://developer.mozilla.org/en-US/docs/Learn/Accessibility/HTML>

```
<!DOCTYPE html>
<html>
  <head>
    <!-- metadata goes here -->
  </head>
  <body>
    <header>
      <!--Stuff in header -->
    </header>
    <nav>
      <!--Stuff in nav -->
    </nav>
    <article>
      <!--Stuff in article -->
    </article>
    <section>
      <!--Stuff in section -->
    </section>
    <footer>
      <!--Stuff in footer -->
    </footer>
  </body>
</html>
```

Hierarchy

Hierarchy

```
<h1>This is a hed</h1>
```

H tags

Typically, h tags represent the heading of a page or section.

Hierarchy

```
<h1>This is a hed</h1>
```

H tags

Like most HTML elements, they need an **opening** and **closing** tag.

Hierarchy

```
<h1>This is a hed</h1>
```

```
<h2>This is a hed</h2>
```

```
<h3>This is a hed</h3>
```

```
<h4>This is a hed</h4>
```

```
<h5>This is a hed</h5>
```

```
<h6>This is a hed</h6>
```

H tags

There are 6 variations to pick from. They are ordered from most important to least important heading on your page.

Most websites don't use anything past the h3 or h4 tags.

Hierarchy

```
<h1>This is a hed</h1>
```

```
<h2>This is a hed</h2>
```

```
<h3>This is a hed</h3>
```

```
<h4>This is a hed</h4>
```

```
<h5>This is a hed</h5>
```

```
<h6>This is a hed</h6>
```

H tags

A page is only allowed one `<h1>` tag. It's usually your headline/title.

Tags have to be used in hierarchical order. You're telling the browser which text matters. You can decide if the `<h2>` is your dek.

`<h3>` can be around all your subheads/section names (if you have any)

Hierarchy

```
<h1>This is a hed</h1>
```

```
<h2>This is a hed</h2>
```

```
<h3>This is a hed</h3>
```

```
<h4>This is a hed</h4>
```

```
<h5>This is a hed</h5>
```

```
<h6>This is a hed</h6>
```

H tags

Even without CSS, the h tags come with a bit of built-in styling. `<h1>` will look bigger than `<h2>`'s and so on.

The tags have to be used in order. You cannot skip to an h4 from an h2. You have to use a h3 before using the h4.

Hierarchy

Let's look at the h tags in action. Double click the `htags.html` file
This should open it in your browser.

Review

Page structure

Here is a very simple webpage.

```
<!DOCTYPE html>
<html>
  <!-- READ BY THE BROWSER -->
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>First webpage</title>
    <meta name="description" content="Page showing all the HTML I have learned.">
    <link rel="stylesheet" href="main.css">
  </head>
  <!-- SEEN BY THE READER -->
  <body>
    <header>
      <h1>Yoli Martinez's first web page.</h1>
      <h2>Page showing all the HTML I have learned.</h2>
    </header>
    <nav>
      <ul>
        <li>Home</li>
        <li>Blog</li>
        <li>Work Samples</li>
      </ul>
    </nav>
    <article>
      <h3>Cranberry Spritzer Watermelon</h3>
      <p>Bulgarian carrot strawberry mango smoothie mediterranean tomato and basil
blackberries cilantro lime vinaigrette.</p>
      <p>Butternut squash crispy iceberg lettuce jalapeño bruschetta
peppermint.</p>
      
    </article>
    <footer>
      <p>Copyright @2022</p>
    </footer>
  </body>
</html>
```

Page structure

Here is a very simple webpage.

We have the **<head>** with the metadata
(It's read by the browser)

```
<!DOCTYPE html>
<html>
  <!-- READ BY THE BROWSER -->
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>First webpage</title>
    <meta name="description" content="Page showing all the HTML I have learned.">
    <link rel="stylesheet" href="main.css">
  </head>
  <!-- SEEN BY THE READER -->
  <body>
    <header>
      <h1>Yoli Martinez's first web page.</h1>
      <h2>Page showing all the HTML I have learned.</h2>
    </header>
    <nav>
      <ul>
        <li>Home</li>
        <li>Blog</li>
        <li>Work Samples</li>
      </ul>
    </nav>
    <article>
      <h3>Cranberry Spritzer Watermelon</h3>
      <p>Bulgarian carrot strawberry mango smoothie mediterranean tomato and basil
blackberries cilantro lime vinaigrette.</p>
      <p>Butternut squash crispy iceberg lettuce jalapeño bruschetta
peppermint.</p>
      
    </article>
    <footer>
      <p>Copyright @2022</p>
    </footer>
  </body>
</html>
```

Page structure

Here is a very simple webpage.

We have the `<head>` with the metadata
(It's read by the browser)

Followed by the `<body>` with all the
information the reader will see.

```
<!DOCTYPE html>
<html>
  <!-- READ BY THE BROWSER -->
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>First webpage</title>
    <meta name="description" content="Page showing all the HTML I have learned.">
    <link rel="stylesheet" href="main.css">
  </head>
  <!-- SEEN BY THE READER -->
  <body>
    <header>
      <h1>Yoli Martinez's first web page.</h1>
      <h2>Page showing all the HTML I have learned.</h2>
    </header>
    <nav>
      <ul>
        <li>Home</li>
        <li>Blog</li>
        <li>Work Samples</li>
      </ul>
    </nav>
    <article>
      <h3>Cranberry Spritzer Watermelon</h3>
      <p>Bulgarian carrot strawberry mango smoothie mediterranean tomato and basil
blackberries cilantro lime vinaigrette.</p>
      <p>Butternut squash crispy iceberg lettuce jalapeño bruschetta
peppermint.</p>
      
    </article>
    <footer>
      <p>Copyright @2022</p>
    </footer>
  </body>
</html>
```


Page structure

1. `<head>` is always above `<body>` tags

```
<!DOCTYPE html>
<html>
  <!-- READ BY THE BROWSER -->
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>First webpage</title>
    <meta name="description" content="Page showing all the HTML I have learned.">
    <link rel="stylesheet" href="main.css">
  </head>
  <!-- SEEN BY THE READER -->
  <body>
    <header>
      <h1>Yoli Martinez's first web page.</h1>
      <h2>Page showing all the HTML I have learned.</h2>
    </header>
    <nav>
      <ul>
        <li>Home</li>
        <li>Blog</li>
        <li>Work Samples</li>
      </ul>
    </nav>
    <article>
      <h3>Cranberry Spritzer Watermelon</h3>
      <p>Bulgarian carrot strawberry mango smoothie mediterranean tomato and basil
blackberries cilantro lime vinaigrette.</p>
      <p>Butternut squash crispy iceberg lettuce jalapeño bruschetta
peppermint.</p>
      
    </article>
    <footer>
      <p>Copyright @2022</p>
    </footer>
  </body>
</html>
```

Page structure

1. `<head>` is always above `<body>` tags
2. `<header>` is the first tag within `<body>`

```
<!DOCTYPE html>
<html>
  <!-- READ BY THE BROWSER -->
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>First webpage</title>
    <meta name="description" content="Page showing all the HTML I have learned.">
    <link rel="stylesheet" href="main.css">
  </head>
  <!-- SEEN BY THE READER -->
  <body>
    <header>
      <h1>Yoli Martinez's first web page.</h1>
      <h2>Page showing all the HTML I have learned.</h2>
    </header>
    <nav>
      <ul>
        <li>Home</li>
        <li>Blog</li>
        <li>Work Samples</li>
      </ul>
    </nav>
    <article>
      <h3>Cranberry Spritzer Watermelon</h3>
      <p>Bulgarian carrot strawberry mango smoothie mediterranean tomato and basil
blackberries cilantro lime vinaigrette.</p>
      <p>Butternut squash crispy iceberg lettuce jalapeño bruschetta
peppermint.</p>
      
    </article>
    <footer>
      <p>Copyright @2022</p>
    </footer>
  </body>
</html>
```

Page structure

1. `<head>` is always above `<body>` tags
2. `<header>` is the first tag within `<body>`
3. If there is a navigation component, then `<nav>` comes next.

```
<!DOCTYPE html>
<html>
  <!-- READ BY THE BROWSER -->
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>First webpage</title>
    <meta name="description" content="Page showing all the HTML I have learned.">
    <link rel="stylesheet" href="main.css">
  </head>
  <!-- SEEN BY THE READER -->
  <body>
    <header>
      <h1>Yoli Martinez's first web page.</h1>
      <h2>Page showing all the HTML I have learned.</h2>
    </header>
    <nav>
      <ul>
        <li>Home</li>
        <li>Blog</li>
        <li>Work Samples</li>
      </ul>
    </nav>
    <article>
      <h3>Cranberry Spritzer Watermelon</h3>
      <p>Bulgarian carrot strawberry mango smoothie mediterranean tomato and basil blackberries cilantro lime vinaigrette.</p>
      <p>Butternut squash crispy iceberg lettuce jalapeño bruschetta peppermint.</p>
      
    </article>
    <footer>
      <p>Copyright @2022</p>
    </footer>
  </body>
</html>
```

Page structure

1. `<head>` is always above `<body>` tags
2. `<header>` is the first tag within `<body>`
3. If there is a navigation component, then `<nav>` comes next.
4. Inside of your article, follow the h tag order.

```
<!DOCTYPE html>
<html>
  <!-- READ BY THE BROWSER -->
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>First webpage</title>
    <meta name="description" content="Page showing all the HTML I have learned.">
    <link rel="stylesheet" href="main.css">
  </head>
  <!-- SEEN BY THE READER -->
  <body>
    <header>
      <h1>Yoli Martinez's first web page.</h1>
      <h2>Page showing all the HTML I have learned.</h2>
    </header>
    <nav>
      <ul>
        <li>Home</li>
        <li>Blog</li>
        <li>Work Samples</li>
      </ul>
    </nav>
    <article>
      <h3>Cranberry Spritzer Watermelon</h3>
      <p>Bulgarian carrot strawberry mango smoothie mediterranean tomato and basil  
blackberries cilantro lime vinaigrette.</p>
      <p>Butternut squash crispy iceberg lettuce jalapeño bruschetta  
peppermint.</p>
      
    </article>
    <footer>
      <p>Copyright @2022</p>
    </footer>
  </body>
</html>
```

Page structure

1. `<head>` is always above `<body>` tags
2. `<header>` is the first tag within `<body>`
3. If there is a navigation component, then `<nav>` comes next.
4. Inside of your article, follow the h tag order.
5. **`<footer>`** will always close out your page.

```
<!DOCTYPE html>
<html>
  <!-- READ BY THE BROWSER -->
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>First webpage</title>
    <meta name="description" content="Page showing all the HTML I have learned.">
    <link rel="stylesheet" href="main.css">
  </head>
  <!-- SEEN BY THE READER -->
  <body>
    <header>
      <h1>Yoli Martinez's first web page.</h1>
      <h2>Page showing all the HTML I have learned.</h2>
    </header>
    <nav>
      <ul>
        <li>Home</li>
        <li>Blog</li>
        <li>Work Samples</li>
      </ul>
    </nav>
    <article>
      <h3>Cranberry Spritzer Watermelon</h3>
      <p>Bulgarian carrot strawberry mango smoothie mediterranean tomato and basil blackberries cilantro lime vinaigrette.</p>
      <p>Butternut squash crispy iceberg lettuce jalapeño bruschetta peppermint.</p>
      
    </article>
    <footer>
      <p>Copyright @2022</p>
    </footer>
  </body>
</html>
```

Resources

- Read more about HTML tags:

<https://developer.mozilla.org/en-US/docs/Web/HTML/Element>

<https://www.w3schools.com/TAGS/default.ASP>

<https://developer.mozilla.org/en-US/docs/Learn/Accessibility/HTML>

- Dive into meta tags for social:

<https://css-tricks.com/essential-meta-tags-social-media/>

[https://developer.mozilla.org/en-US/docs/Learn/HTML/Introduction to HTML/The head metadata in HTML](https://developer.mozilla.org/en-US/docs/Learn/HTML/Introduction_to_HTML/The_head_metadata_in_HTML)

Debugging Code

Debugging Code

Typical mistake in your code:

1. Unclosed tags:

`<h1>This is not closed<h1>`

Debugging Code

Typical mistake in your code:

1. Unclosed tags:

```
<h1>This is not closed<h1>
```

2. Unclosed quotation marks:

```
<a href="www.berkeley.edu" target= "_blank">Berkeley</a>
```

Debugging Code

Typical mistake in your code:

1. Unclosed tags:

```
<h1>This is not closed<h1>
```

2. Unclosed quotation marks:

```
<a href="www.berkeley.edu target= "_blank">Berkeley</a>
```

3. Using a combination of single and double quotes:

```
<a href="www.berkeley.edu' target= "_blank"> Berkeley</a>
```

Debugging Code

Remember, things break **all the time**.

Eventually your eye will get better at catching typos or unclosed tags. Sometimes it takes another set of eyes, and that's okay. Sublime and other text editors are pretty good at catching unclosed tags and pointing out mistakes.

Let's try to find the mistakes in the following...

Debugging Code: Find why this is breaking

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>First Webpage</title>
    <meta "description" content="Page showing all the HTML I have learned.">
    <link rel="stylesheet" href="main.css">
  </head>
</html>
```

Debugging Code: Find why this is breaking

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>First Webpage</title>
    <meta name="description" content="Page showing all the HTML I have learned.">
    <link rel="stylesheet" href="main.css">
  </head>
</html>
```

Debugging Code: Find why this is breaking

```
<body>

  <header>

    <h1>Yoli Martinez</h2>

    <h2>Page showing all the HTML I have learned<h2>

  </header>

  <article>

    <h3>Links to my work</h3>

    <h4>BART increases fare</h4>

    <img src= "storyPhoto.jpg" alt= "Platform at 12th St. Station" >

    <p>A story about the 25% increase in fare for commuters. I interviewed a BART spokesperson and morning commuters in Oakland.</p>

    <a "https://oaklandnorth.net/2022/01/04/story-heading" >OaklandNorth, Jan., 2022</a>

  </article>

</body>
```

Debugging Code: Find why this is breaking

```
<body>

  <header>

    <h1>Yoli Martinez</h1>

    <h2>Page showing all the HTML I have learned</h2>

  </header>

  <article>

    <h3>Links to my work</h3>

    <h4>BART increases fare</h4>

    <img src= "storyPhoto.jpg" alt= "Platform at 12th St. Station" />

    <p>A story about the 25% increase in fare for commuters. I interviewed a BART spokesperson and morning commuters in Oakland.</p>

    <a href="https://oaklandnorth.net/2022/01/04/story-heading" >OaklandNorth, Jan., 2022</a>

  </article>

</body>
```

BREAK



**Note to
lecturers:**
pause Zoom
recording

File structure

**Note to
lecturers:**
resume Zoom
recording

File Structure

Sorry all, this can sound boring, but IT IS SO IMPORTANT.

So many things can go wrong, disappear, unlink or appear broken if your file folders are not set up properly.

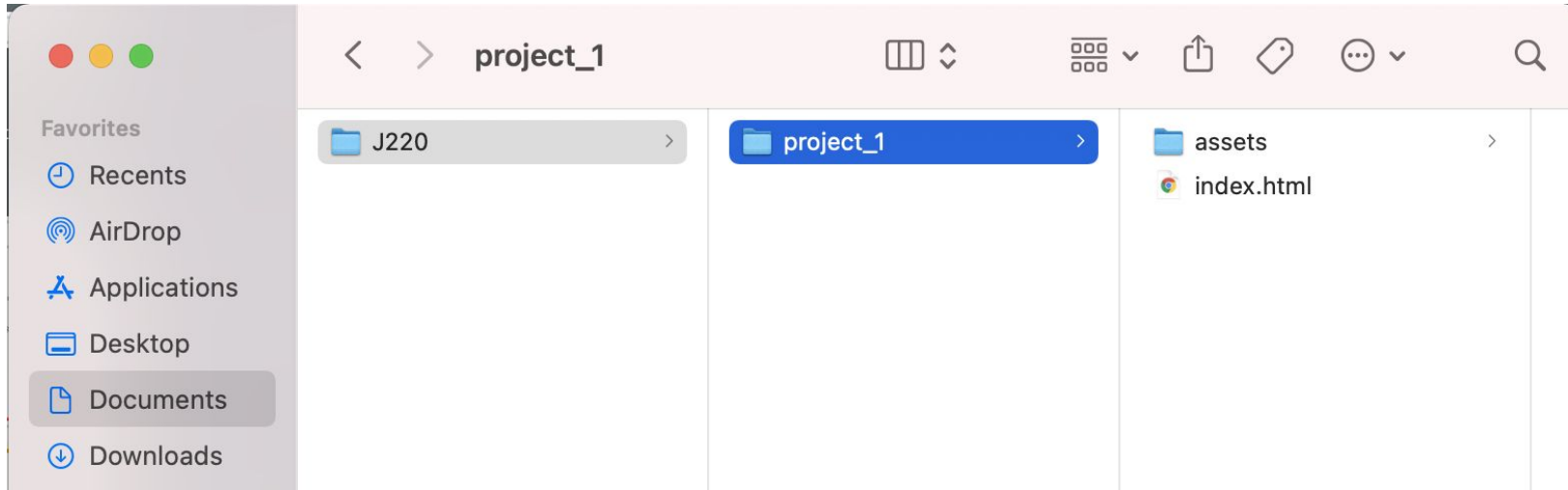
So here are some basic rules for this class:

File Structure

1. For this class, create a “J220” folder in your main “Documents” folder. Never, never, never, never just save html and css files onto your desktop/download/easily misplaced folder.
2. Inside of you “J220” folder, create a new folder, called “project_1”
3. Create another folder in your “project_1” folder called “assets.” This is where you will save all your images.

File Structure

This is what your files should look like



File Structure

So now let's take a look at our `` tag again

```

```

File Structure

So now let's take a look at our `` tag again

The “src” attribute let's the browser know where to find the image.

```

```

File Structure

In HTML, you use periods and slashes to let the browser know how to navigate through your file structure.

```

```

File Structure

What this gets
interpreted as is:

“./” - in this directory

```

```


File Structure

What this gets
interpreted as is:

“./” - in this directory

“assets/” - in folder with
this name

```

```

File Structure

What this gets
interpreted as is:

“./” - in this directory

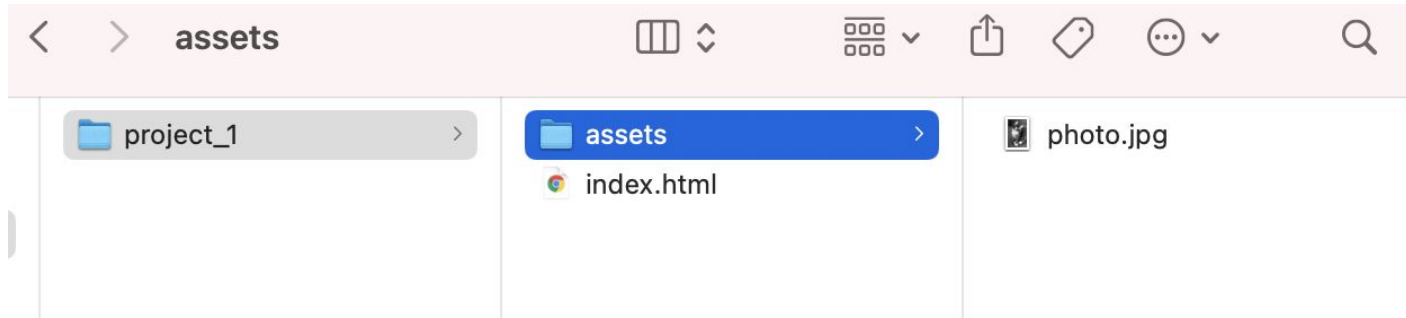
“assets/” - in folder with
this name

You'll find a file with this
name.

```

```

File Structure



```

```

File Structure

This matter because you can end up with a web page with photos, audio or video. And you'd want to organize each of those asset types into their own folder.

```

```

In-class assignment

Create a simple portfolio using the template here:

https://docs.google.com/document/d/1OFcofDrIWkJUf8monvQEUX_2RRxzKFTcn_o1rVm5IRDs/edit (will drop this link into our Slack channel)

You can work on building the HTML with the rest of time in class.

Homework

Reading

Assignment #2 on bCourses (write the HTML for your simple portfolio)