J220
Coding for Journalists

LECTURER
Soo Oh

PROMPTS

Sign into Poll Everywhere:
https://pollev.com/soooh

Download lesson materials at
https://journ220.github.io

start Zoom recording + captions

Agenda

Announcements

Homework review

More HTML elements: for text and visuals

BREAK

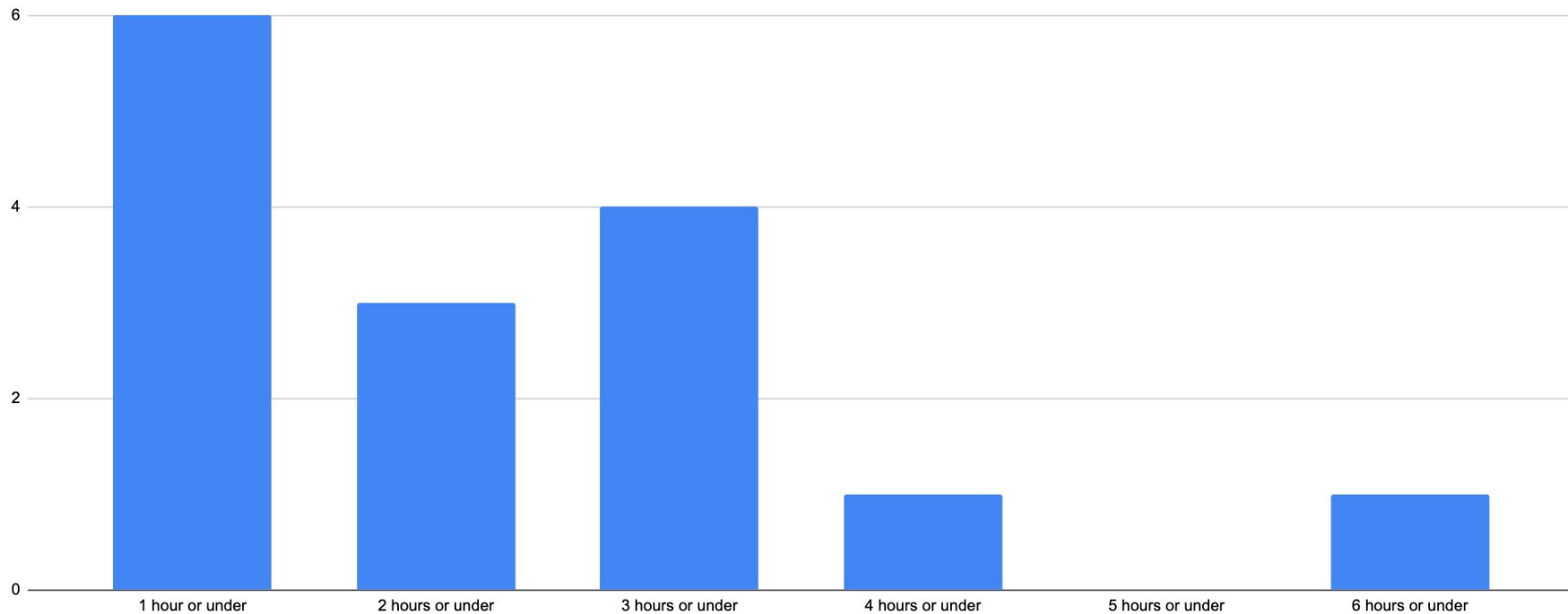HTML tables

In-class assignment

Next week's homework

Announcements

Students who are going to NICAR:
please bring back notes about stuff
you've learned to share with the class
on March 6.

How much time spent on J220 last week

Week 01-30: Number of students grouped by hours spent outside of lecture and office hours

Homework Review

Note 1

Note 2

Note 3

```html
<!-- This is correct. -->
<meta charset="utf-8">

<!-- This is wrong. Why? -->
<meta charset="utf-8">
```

Homework Review 1

Homework Review

Note 1

Note 2

Note 3

```html
<!-- This is correct. -->
<meta charset="utf-8">

<!-- This is correct, but it's harder to read. -->
<meta charset = "utf-8">
```

Homework Review

Note 1

Note 2

Note 3

```html
<!--
We didn't define <p> last week.
It stands for paragraph, but maybe you figured that
out.
-->

<p>This is a paragraph!</p>

<p>This is another paragraph!</p>
```

More HTML elements

More HTML

Lists

Pull quotes and blockquotes

`<figure>`, etc.

Linking to other pages on your site

Linking within the same page

Use lists for grouping items into a list.

You can make a **bulleted list** or a **numbered list**.

More HTML

Lists

Pull quotes and blockquotes

`<figure>`, etc.

Linking to other pages on your site

Linking within the same page

unordered list (bullet points)

HTML

```
<ul>
    <li>Monday</li>
    <li>Tuesday</li>          list item
    <li>Wednesday</li>
    <li>Thursday</li>
    <li>Friday</li>
</ul>
```

BROWSER OUTPUT

- Monday
- Tuesday
- Wednesday
- Thursday
- Friday

More HTML

Lists

Pull quotes and blockquotes

`<figure>`, etc.

Linking to other pages on your site

Linking within the same page

ordered list (numbered)

HTML

```
<ol>
   <li>Monday</li>
   <li>Tuesday</li>
   <li>Wednesday</li>
   <li>Thursday</li>
   <li>Friday</li>
</ol>
```

only the outer tags change

BROWSER OUTPUT

1. Monday
2. Tuesday
3. Wednesday
4. Thursday
5. Friday

More HTML

Lists

Pull quotes and blockquotes

`<figure>`, etc.

Linking to other pages on your site

Linking within the same page

Use `<aside>` for **decorative pull quotes**.

Marian Carey and the N.F.L. wide receiver Calvin Ridley. "We have a message," she told the assembled reporters: "Get out of this county or expect to start seeing sentences that go life-plus, because I am not going to negotiate with gang members."

'We're just going to do that case like every other. I don't know why it's shocking to people. If it turns out that charges are legitimate, we're going to bring them.'

When I visited her office late last year, Willis sat behind a large desk and indicated that I should take a seat on a couch about 10 feet away. Jeff DiSantis, her media-relations chief, sat in a corner, wearing cowboy boots and rarely glancing up from his laptop. Gov.

```
<aside>
  <p>'We're just going to do that case like every other. I
  don't know why it's shocking to people. If it turns out
  that charges legitimate, we're going to bring them.'</p>
</aside>
```

`More HTML`

Lists

Pull quotes and blockquotes

`<figure>`, etc.

Linking to other pages on your site

Linking within the same page

Use `<blockquote>` when you want to show a **quotation or citation** as a **block**.

What's the point of semantic HTML?

From W3C's HTML standard:

> "Elements, attributes, and attribute values in HTML are defined … to have certain meanings (semantics). … These definitions allow HTML processors, such as web browsers or search engines, to present and use documents and applications in a wide variety of contexts that the author might not have considered."

```
<blockquote cite="https://html.spec.whatwg.org/#semantics-2">
  <p>"Elements, attributes, and attribute values in HTML are
  defined … to have certain meanings (semantics). … These
  definitions allow HTML processors, such as web browsers or
  search engines, to present and use documents and
  applications in a wide variety of contexts that the author
  might not have considered."</p>
</blockquote>
```

More HTML

Lists

Pull quotes and blockquotes

`<figure>`, etc.

Linking to other pages on your site

Linking within the same page

Use `<blockquote>` when you want to show a **quotation or citation** as a **block**.

What's the point of semantic HTML?

From W3C's HTML standard:

> "Elements, attributes, and attribute values in HTML are defined … to have certain meanings (semantics). … These definitions allow HTML processors, such as web browsers or search engines, to present and use documents and applications in a wide variety of contexts that the author might not have considered."

link to the source (if it exists online) using the `cite` attribute

```
<blockquote cite='https://html.spec.whatwg.org/#semantics-2">
  <p>"Elements, attributes, and attribute values in HTML are
  defined … to have certain meanings (semantics). … These
  definitions allow HTML processors, such as web browsers or
  search engines, to present and use documents and
  applications in a wide variety of contexts that the author
  might not have considered."</p>
</blockquote>
```

More HTML

Lists

Pull quotes and blockquotes

`<figure>`, etc.

Linking to other pages on your site

Linking within the same page

"Usually a `<figure>` is an image, illustration, diagram, code snippet, etc., that is referenced in the main flow of a document, but that can be moved to another part of the document or to an appendix without affecting the main flow."

—[Mozilla](#)

More HTML

Lists

Pull quotes and blockquotes

`<figure>`, etc.

Linking to other pages on your site

Linking within the same page

HTML

```
<figure>
  <img src="./assets/illus6.jpg" alt="Line drawing of a bear
  named Winnie-the-Pooh falling out of tree">
  <figcaption>Winnie-the-Pooh falls out of a tree.
  (Ernest H. Shepard)</figcaption>
</figure>
```

BROWSER OUTPUT

Winnie-the-Pooh falls out of a tree. (Ernest H. Shepard)

`<figcaption>` is optional

More HTML

Lists

Pull quotes and blockquotes

`<figure>`, etc.

Linking to other pages on your site

Linking within the same page

When to not use alt text

HTML

```html
<figure>
  <img src="flower.png" alt="">
  <figcaption>Close-up shot of a blue flower by
  photographer Soo Oh.</figcaption>
</figure>
```

Instead, leave the alt text attribute blank.

More HTML

Lists

Pull quotes and blockquotes

`<figure>`, etc.

Linking to other pages on your site

Linking within the same page

When to not use alt text

HTML

```html
<figure>
  <img src="flower.png" alt="Close-up shot of a
  blue flower">
  <figcaption>Credit: Soo Oh</figcaption>
</figure>
```
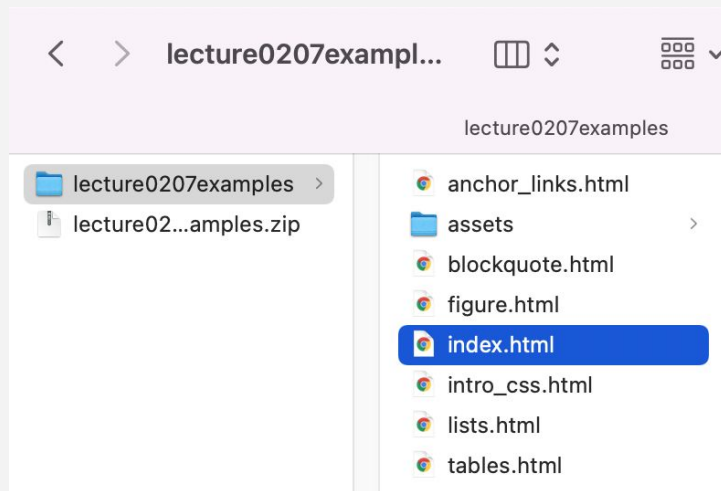
Use alt text if the caption isn't a description of the image.

More HTML

Lists

Pull quotes and blockquotes

`<figure>`, etc.

Linking to other pages on your site

Linking within the same page

lecture0207exampl...

lecture0207examples

- lecture0207examples
- lecture02...amples.zip

- anchor_links.html
- assets
- blockquote.html
- figure.html
- index.html
- intro_css.html
- lists.html
- tables.html

You learned this last week! Check "File Structure" section in slides related to `<img>`'s `src` attribute

```html
<ul>
  <li><a href="./lists.html">Lists</a></li>
  <li><a href="./tables.html">Tables</a></li>
  <li><a href="./figure.html">Figure</a></li>
  <li><a href="./blockquote.html">Blockquote</a></li>
  <li><a href="./intro_css.html">Intro to CSS</a></li>
</ul>
```

More HTML

Lists

Pull quotes and blockquotes

`<figure>`, etc.
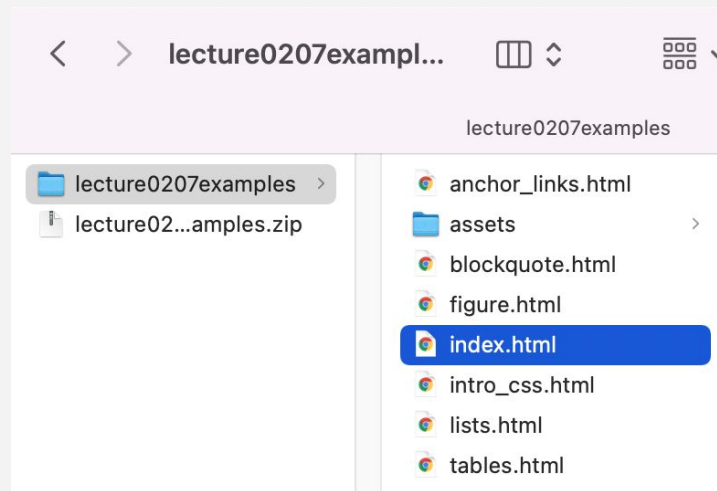
Linking to other pages on your site

Linking within the same page

alternate style of linking within SAME directory

```html
<ul>
  <li><a href="lists.html">Lists</a></li>
  <li><a href="tables.html">Tables</a></li>
  <li><a href="figure.html">Figure</a></li>
  <li><a href="blockquote.html">Blockquote</a></li>
  <li><a href="intro_css.html">Intro to CSS</a></li>
</ul>
```

More HTML

Lists

Pull quotes and blockquotes

`<figure>`, etc.

Linking to other pages on your site

Linking within the same page

First, assign an `id` attribute to an element:

```
<section id="lists">
  <h2>Lists</h2>
  <p>
  ...
</section>
```

Then, use the `<a>` tag to link to the element with a hashtag:

```
<a href="#lists">Lists</a>
```

More HTML

Lists

Pull quotes and blockquotes

`<figure>`, etc.

Linking to other pages on your site

Linking within the same page

`id` attributes must be unique to the element.

Don't do this!

```
<section id="chapter">
  ...
</section>
<section id="chapter">
  ...
</section>
<section id="chapter">
  ...
</section>
```

You can't have more than one element with the same `id`.

More HTML

Lists

Pull quotes and blockquotes

`<figure>`, etc.

Linking to other pages on your site

Linking within the same page

`id` attributes must be unique to the element.

Do this, instead

```
<section id="chapter-1">
  ...
</section>
<section id="chapter-2">
  ...
</section>
<section id="chapter-3">
  ...
</section>
```

You can't have more than one element with the same `id`.

HTML Tables

Tables

`<table>`

`<caption>`

`<thead>` and `<tbody>`

`<tr>`

`<th>`

`<td>`

scope

Use tables to show data.

Contact information for J220 lecturers

Name	Email
Soo Oh	soo@berkeley.edu
Yoli Martinez	yolanda_martinez@berkeley.edu

Tables

<table>

<caption>

<thead> and
<tbody>

<tr>

<th>

<td>

scope

```html
<table>
  <caption>Contact information for J220 lecturers</caption>
  <thead>
    <tr>
      <th scope="col">Name</th>
      <th scope="col">Email</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <td>Soo Oh</td>
      <td>soo@berkeley.edu</td>
    </tr>
    <tr>
      <td>Yoli Martinez</td>
      <td>yolanda_martinez@berkeley.edu</td>
    </tr>
  </tbody>
</table>
```

Tables

<table>

<caption>

<thead> and <tbody>

<tr>

<th>

<td>

scope

<table>

Contact information for J220 lecturers

Name	Email
Soo Oh	soo@berkeley.edu
Yoli Martinez	yolanda_martinez@berkeley.edu

Tables

<table>

<caption>

<thead> and
<tbody>

<tr>

<th>

<td>

scope

<caption>

Contact information for J220 lecturers

Name	Email
Soo Oh	soo@berkeley.edu
Yoli Martinez	yolanda_martinez@berkeley.edu

Not always
necessary!

Tables

<table>

<caption>

<thead> and
<tbody>

<tr>

<th>

<td>

scope

<thead>

Contact information for J220 lecturers

Name	Email
Soo Oh	soo@berkeley.edu
Yoli Martinez	yolanda_martinez@berkeley.edu

<tbody>

Tables

<table>

<caption>

<thead> and <tbody>

<tr>

<th>

<td>

scope

<tr>

Contact information for J220 lecturers

Name	Email
Soo Oh	soo@berkeley.edu
Yoli Martinez	yolanda_martinez@berkeley.edu

Tables

<table>

<caption>

<thead> and <tbody>

<tr>

<th>

<td>

scope

<th> table header, the cells within the header row

<th>

Contact information for J220 lecturers

Name	Email
Soo Oh	soo@berkeley.edu
Yoli Martinez	yolanda_martinez@berkeley.edu

Tables

<table>

<caption>

<thead> and <tbody>

<tr>

<th>

<td>

scope

<th> table header, the cells within the header row

<th>

Contact information for J220 lecturers

Name	Email
Soo Oh	soo@berkeley.edu
Yoli Martinez	yolanda_martinez@berkeley.edu

You can also use <th> for **row** headers; we'll see this shortly

Tables

<table>

<caption>

<thead> and <tbody>

<tr>

<th>

<td>

scope

<td> table data, a.k.a. a table cell

<td>

Contact information for J220 lecturers

Name	Email
Soo Oh	soo@berkeley.edu
Yoli Martinez	yolanda_martinez@berkeley.edu

Tables

<table>

<caption>

<thead> and
<tbody>

<tr>

<th>

<td>

scope

```
<table>
  <caption>Contact information for J220 lecturers</caption>
  <thead>
    <tr>
      <th scope="col">Name</th>
      <th scope="col">Email</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <td>Soo Oh</td>
      <td>soo@berkeley.edu</td>
    </tr>
    <tr>
      <td>Yoli Martinez</td>
      <td>yolanda_martinez@berkeley.edu</td>
    </tr>
  </tbody>
</table>
```

what's this?!

Tables

<table>

<caption>

<thead> and <tbody>

<tr>

<th>

<td>

scope

In-class assignment:

- add one more column to this table
- make the first column a header row

Contact information for J220 lecturers

Name	Email	Work
Soo Oh	soo@berkeley.edu	Reveal
Yoli Martinez	yolanda_martinez @berkeley.edu	Washington Post

```html
<th scope="row">Soo Oh</th>
```

Tables

<table>

<caption>

<thead> and
<tbody>

<tr>

<th>

<td>

scope

```html
<table>
  <caption>Contact information for J220 lecturers</caption>
  <thead>
    <tr>
      <th scope="col">Name</th>
      <th scope="col">Email</th>
      <th scope="col">Work</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <th scope="row">Soo Oh</th>
      <td>soo@berkeley.edu</td>
      <td>Reveal</td>
    </tr>
    <tr>
      <th scope="row">Yoli Martinez</th>
      <td>yolanda_martinez@berkeley.edu</td>
      <td>Washington Post</td>
    </tr>
  </tbody>
</table>
```

What questions do you have?

Break

Meet back in 15 minutes.

start Zoom recording + captions

Where to get royalty-free media

- Unsplash.com, Pixabay.com, and Pexels.com for photos and illustrations

- TheNounProject.com for icons

- Your own photos and illustrations

Best practices for crediting

- Definitely credit if you're required to.

- But also credit as good practice!

Pixabay License

Free to use under the Pixabay license

No attribution required

○ **NounPro Unlimited**   **$3.33**
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Yearly   Monthly

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✔ **Basic Download**   **$0**

Black only, no edits. Must attribute creator per Creative Commons license.   CC

How to paste code into bCourses with proper indentation

Bookmark the video and slides
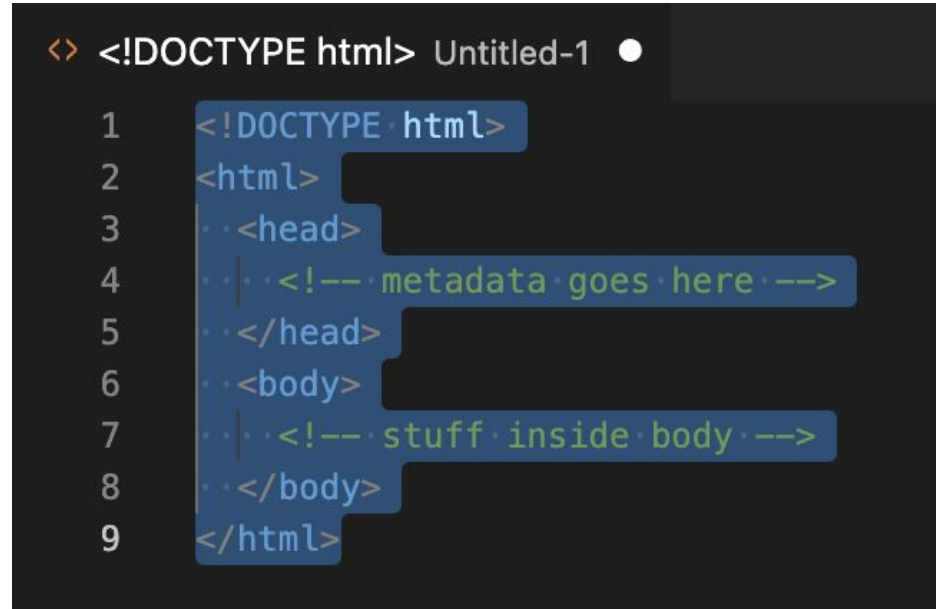
Copy the code from
your text editor.

You can select all of
the code with
⌘**COMMAND A**,
then copy with
⌘**COMMAND C**.
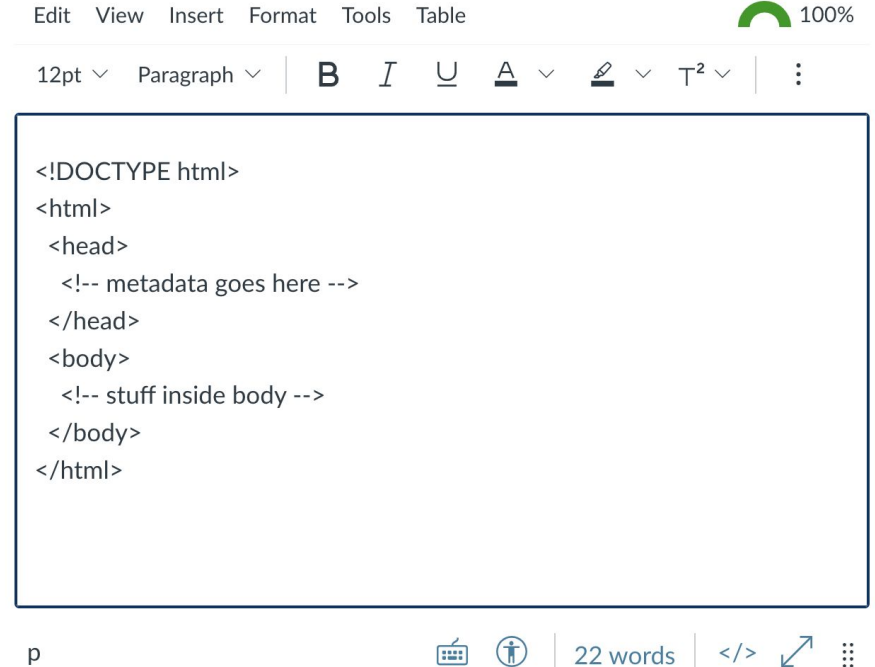
Paste the code into the bCourses response box using ⇧SHIFT ⌘COMMAND V.

Don't forget the ⇧SHIFT key!

It should look like this!

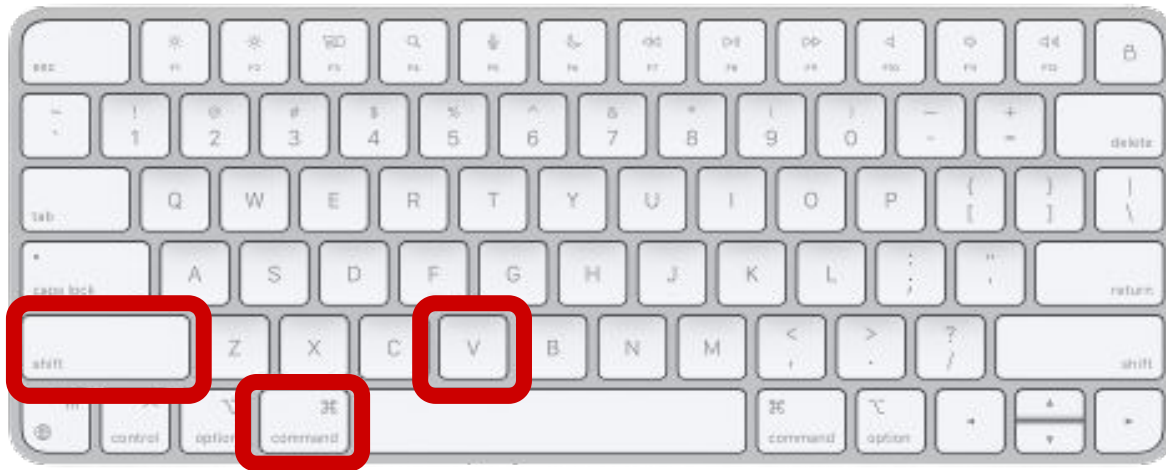Edit   View   Insert   Format   Tools   Table   100%

12pt ⌄   Paragraph ⌄   │   **B**   *I*   U̲   A ⌄   🖍 ⌄   T² ⌄   │   ⋮

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

p   22 words   </>   ⤢   ⋮⋮

⇧SHIFT ⌘COMMAND V

Image: Magic keyboard

Highlight your code, then change the style from **Paragraph** to **Preformatted**.
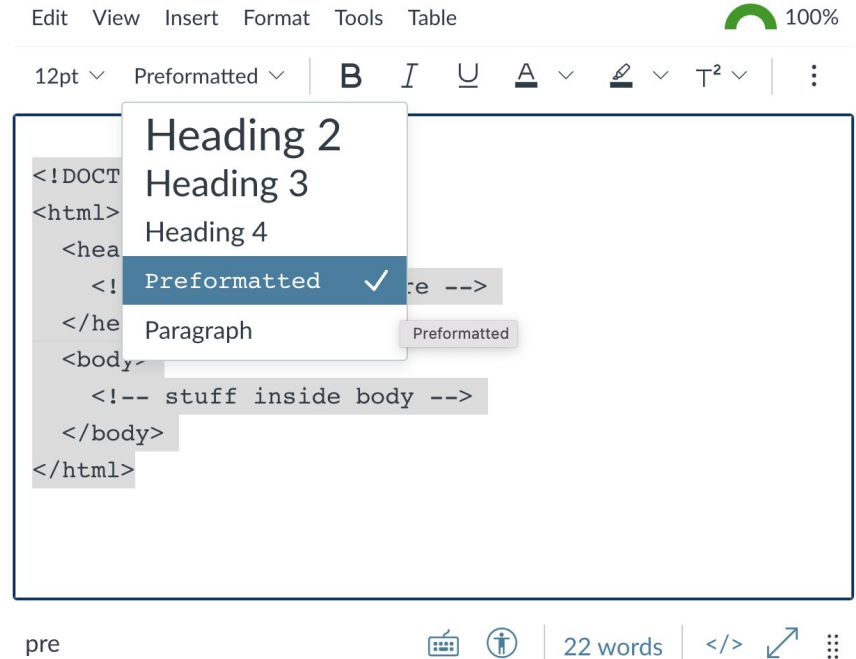
This is how lecturers will see your code:

Your Answer:

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

Homework

- Read [Meet the first-ever accessibility engineer at The Washington Post](#), Nieman Lab

- Submit [Assignment 02-06: More HTML elements](#) in bCourses by Feb. 11 at 11:59 p.m. **INDENTATION MATTERS!**

More recommended reading is on the [J220 website](#).