

J220

Coding for Journalists

LECTURER
Soo Oh

PROMPTS

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

start Zoom recording + captions

Agenda

Announcements

Homework review

More HTML elements: for text and visuals

BREAK

HTML tables

In-class assignment

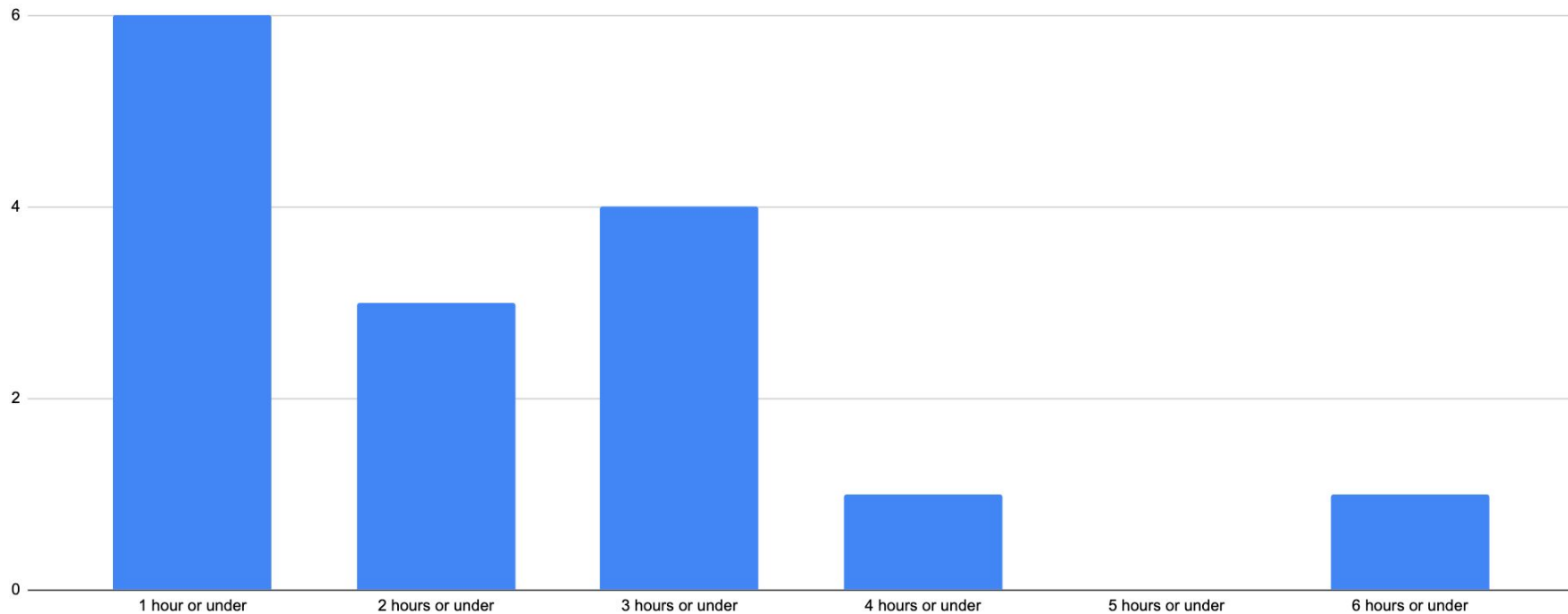
Next week's homework

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

```
<!-- This is correct. -->
```

```
<meta charset="utf-8">
```

```
<!-- This is wrong. Why? -->
```

```
<meta charset="utf-8">
```

Homework Review

Note 1

Note 2

Note 3

```
<!-- 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

```
<!--
```

```
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>
  <li>Wednesday</li>
  <li>Thursday</li>
  <li>Friday</li>
</ul>
```

list item

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. Car

```
<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](https://html.spec.whatwg.org/#semantics-2):

"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>  
</aside>
```

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>
  
  <figcaption>Winnie-the-Pooh falls out of a tree.
    (Ernest H. Shepard)</figcaption>
</figure>
```

BROWSER OUTPUT



`<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

```
<figure>
  
  <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

```
<figure>
  
  <figcaption>Credit: Soo Oh</figcaption>
</figure>
```

Use alt text if the caption isn't a
description of the image.

More HTML

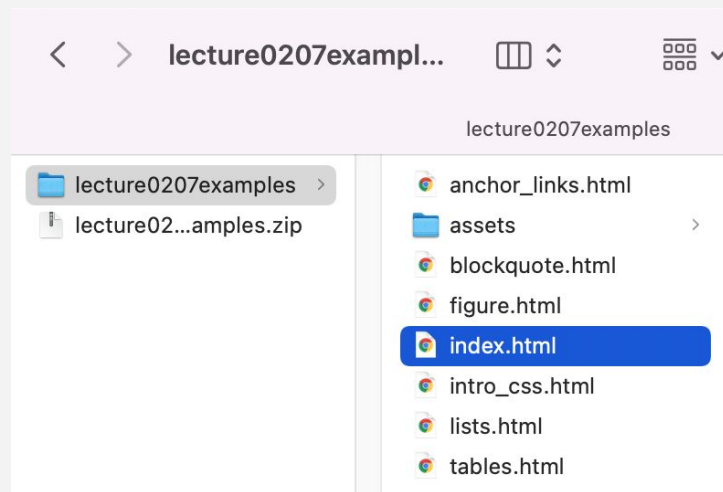
Lists

Pull quotes and
blockquotes

<figure>, etc.

Linking to other
pages on your site

Linking within the
same page



You learned this last week! Check “File Structure” section in slides related to ’s src attribute

```
<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

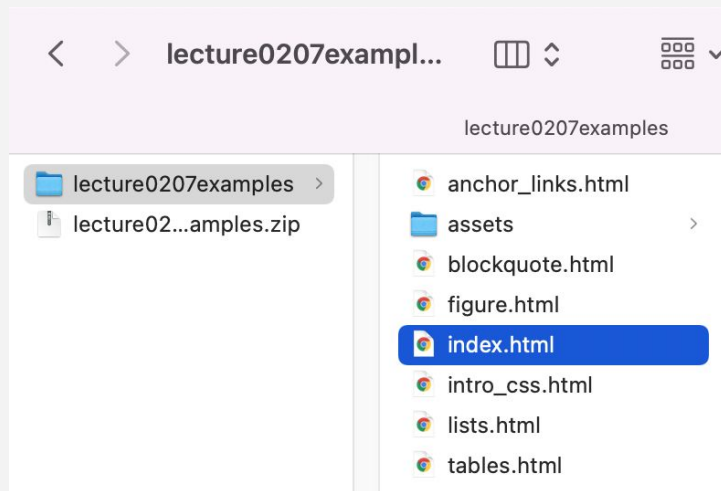
Lists

Pull quotes and
blockquotes

<figure>, etc.

Linking to other
pages on your site

Linking within the
same page



```
<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>
```

alternate style of
linking within
SAME directory

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

```
<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`

The diagram illustrates the structure of an HTML table. A red box labeled `<thead>` is connected by a vertical line to the header row of the table. Another red box labeled `<tbody>` is connected by a vertical line to the body rows of the table. The table itself has a caption 'Contact information for J220 lecturers' and contains two columns: 'Name' and 'Email'.

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

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 hheader, 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 hheader, 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

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

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>
      <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](https://unsplash.com), [Pixabay.com](https://pixabay.com), and [Pexels.com](https://pexels.com) for photos and illustrations
- [TheNounProject.com](https://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

pixabay.com

☐ **NounPro Unlimited** **\$3.33**
/month paid yearly

Best value

Yearly

Monthly

Get millions of SVG/PNG icons, editing & apps.
Royalty-free license supports creators. No attribution required.

☐ **Single Pro Download** **\$2.99**

Royalty-free license, black only. No attribution needed. Purchase supports creator.

☒ **Basic Download** **\$0**

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

CC

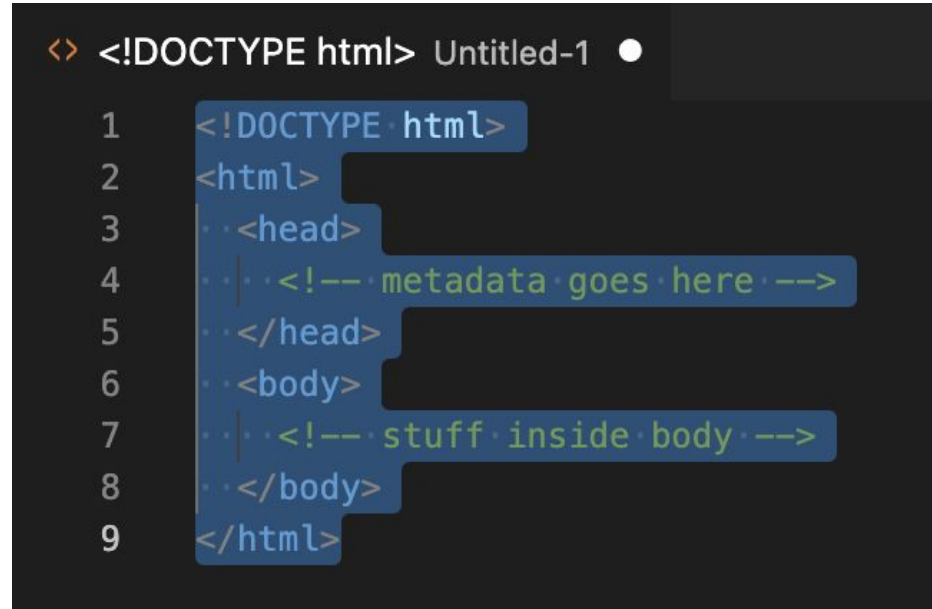
thenounproject.com

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.

A screenshot of a code editor window titled 'Untitled-1'. The editor shows a basic HTML document structure. The code is as follows:

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

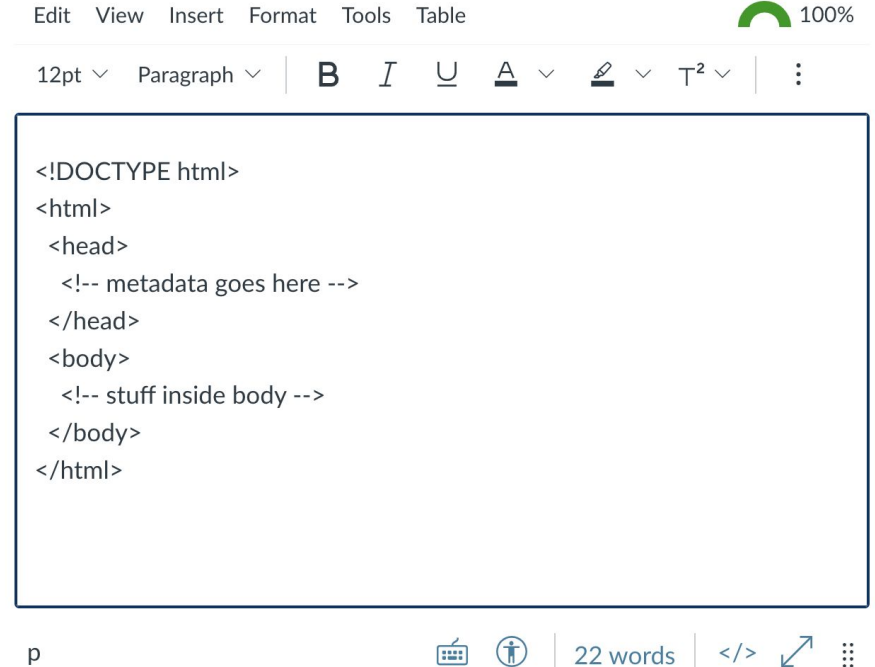
The code is displayed with syntax highlighting: the DOCTYPE and HTML tags are blue, the head/body tags are green, and the comments are light green. The line numbers 1 through 9 are visible on the left side of the editor.

Paste the code into the
bCourses response box
using

⇧**SHIFT** ⌘**COMMAND** V.

Don't
forget the
⇧**SHIFT**
key!

It should look like this!

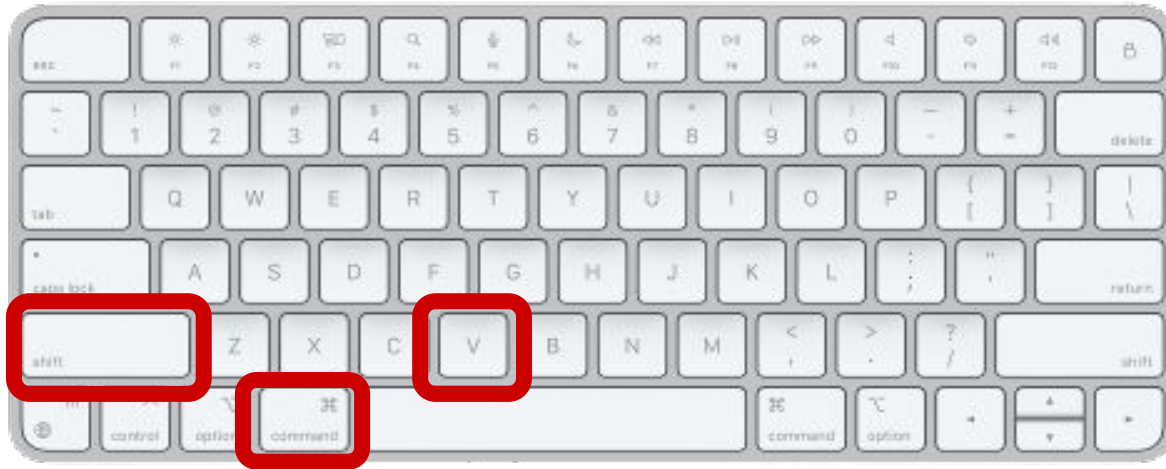


The screenshot shows a rich text editor interface. At the top, there is a menu bar with 'Edit', 'View', 'Insert', 'Format', 'Tools', and 'Table'. To the right of the menu bar is a green progress indicator and '100%'. Below the menu bar is a toolbar with various formatting options: '12pt', 'Paragraph', 'B' (bold), 'I' (italic), 'U' (underline), 'A' (text color), a pencil icon, 'T²' (superscript), and a vertical ellipsis. The main text area contains the following HTML code:

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

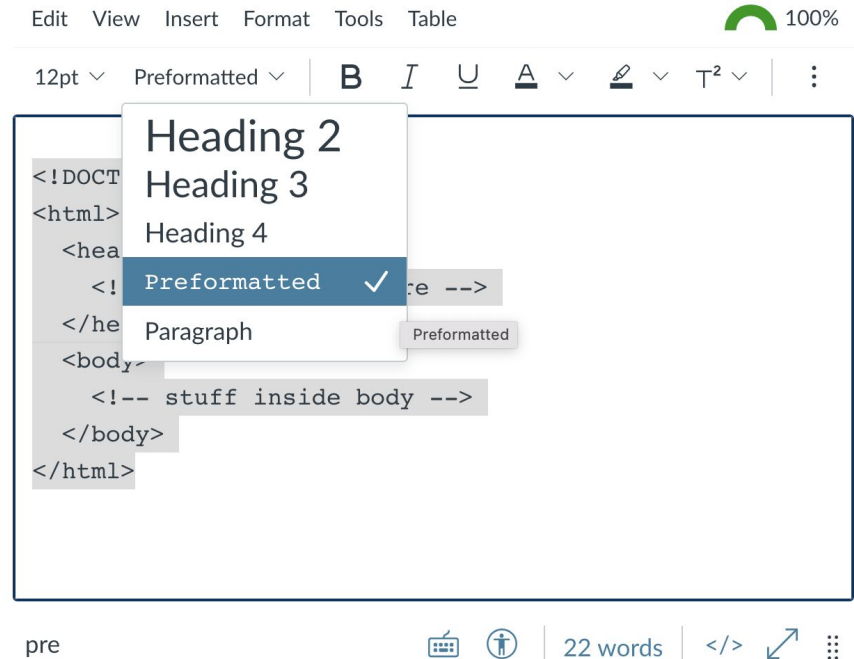
At the bottom of the editor, there is a status bar showing 'p' on the left, and icons for a table, a person, '22 words', a code icon, a link icon, and a vertical ellipsis on the right.

⇧ **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:

```
<!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](#).