

# J220

## Coding for Journalists

LECTURER  
Soo Oh

### PROMPTS

Download lesson materials at  
<https://journ220.github.io>  
**lecture0205examples.zip**

start Zoom recording

# Agenda

Announcements

Homework review

More HTML elements: for text and visuals

## **BREAK**

HTML tables

In-class assignment

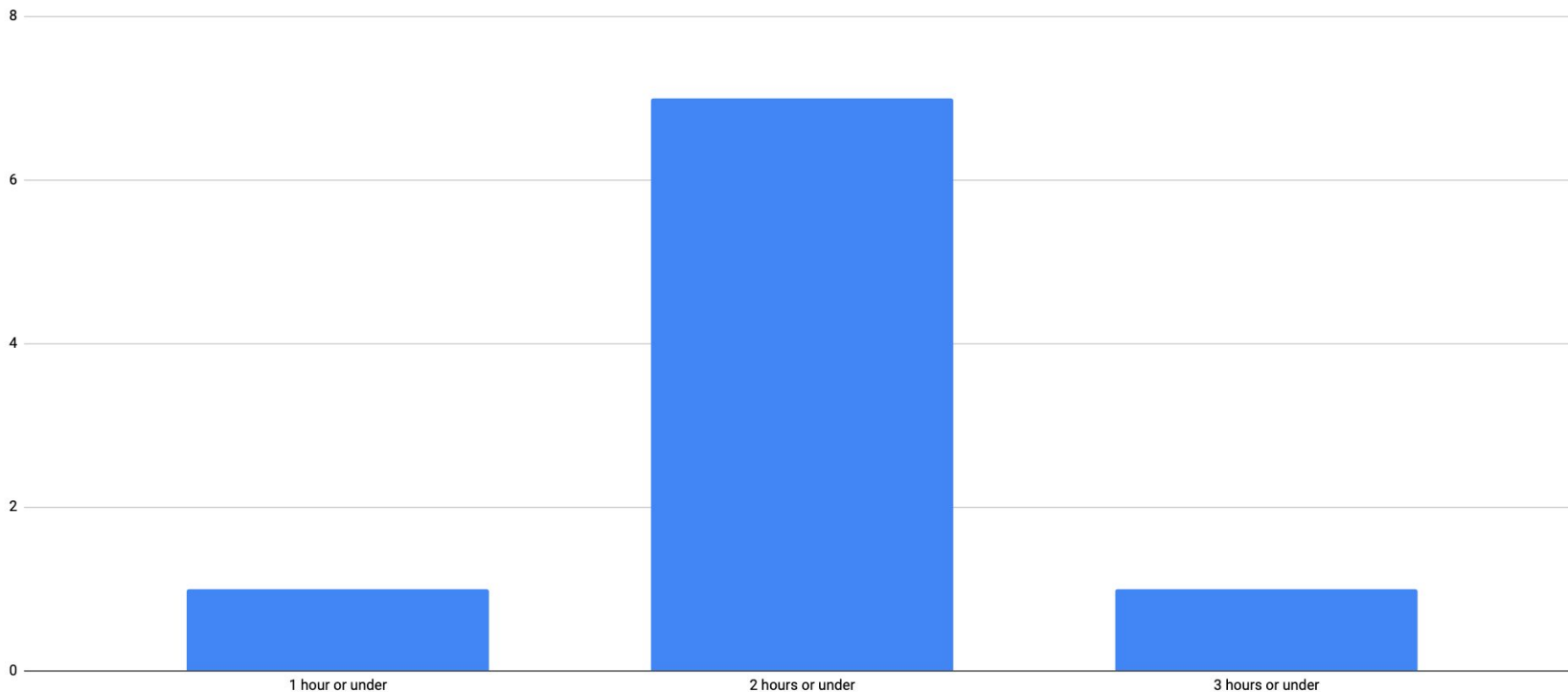
Next week's homework

# Announcements

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

# How much time spent on J220 last week

Week of 01-29: Number of students grouped by hours spent outside of lecture and office hours



## Homework Review

**Note:** bCourses “fill in the blank” options might be marked wrong but we check the answers manually for a lot of them!

Open [Assignment #2](#)

# More HTML elements

Open [lecture0205examples.zip](#)

# 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

<ul> nordered 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

## <ol> 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**  
or **sidebars**.

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  
blockquote

<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

What's the difference between `<aside>`  
and `<blockquote>`?

# More HTML

Lists

Pull quotes and  
blockquote

<figure>, etc.

Linking to other  
pages on your site

Linking within the  
same page

A **<blockquote>** is usually used for quotes that are external to that page.

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](#)

You wouldn't use **`<figure>`** for a website logo, but you'd use it for a photo or illustration within a story.

# 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>
```

Leave the alt text attribute blank if the  
caption describes the image.

# More HTML

Lists

Pull quotes and  
blockquotes

<figure>, etc.

Linking to other  
pages on your site

Linking within the  
same page

## When to 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

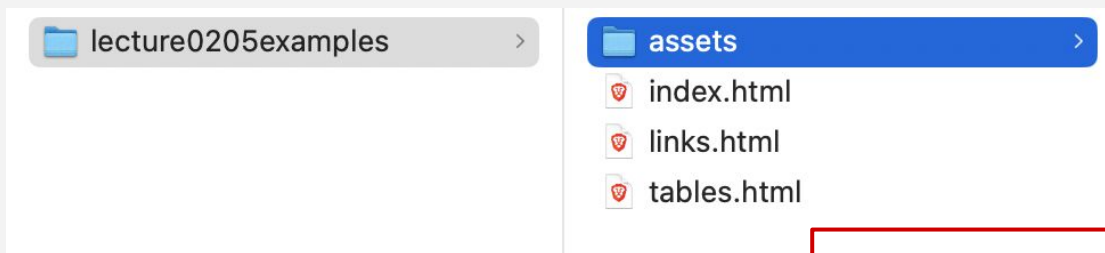
Pull quotes and  
blockquotes

`<figure>`, etc.

Linking to other  
pages on your site

Linking within the  
same page

index.html:



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

```
<ul>
  <li><a href="./links.html">Links</a></li>
  <li><a href="./tables.html">Tables</a></li>
</ul>
```

# More HTML

Lists

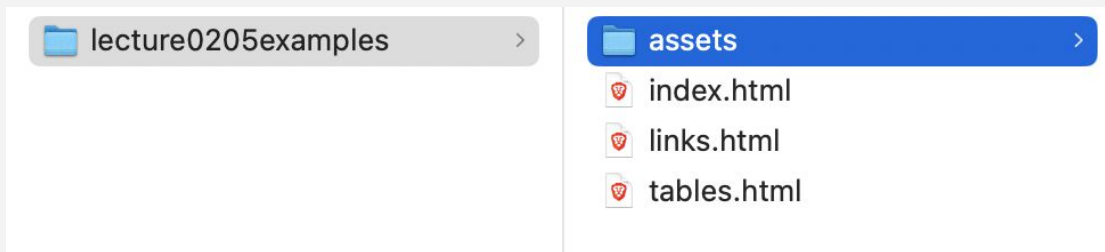
Pull quotes and  
blockquotes

<figure>, etc.

Linking to other  
pages on your site

Linking within the  
same page

index.html:



alternate style of  
linking within  
SAME directory

```
<ul>
  <li><a href="links.html">Links</a></li>
  <li><a href="tables.html">Tables</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**.

# In-class exercises

Check Slack for  
link



# 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

<thead> table head

<tbody> table body

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`

`<tr>` table row

`<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

# What questions do you have?

# 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?!

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

# Tables

`<table>`

`<caption>`

`<thead>` and

`<tbody>`

`<tr>`

`<th>`

`<td>`

`scope`

## Try right now:

- 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	The Markup
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>The Markup</td>
    </tr>
    <tr>
      <th scope="row">Yoli Martinez</th>
      <td>yolanda_martinez@berkeley.edu</td>
      <td>Washington Post</td>
    </tr>
  </tbody>
</table>
```

# In-class exercises

Check Slack for  
link

# Break

Meet back in 15 minutes.



start Zoom recording

# 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](https://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](https://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**.



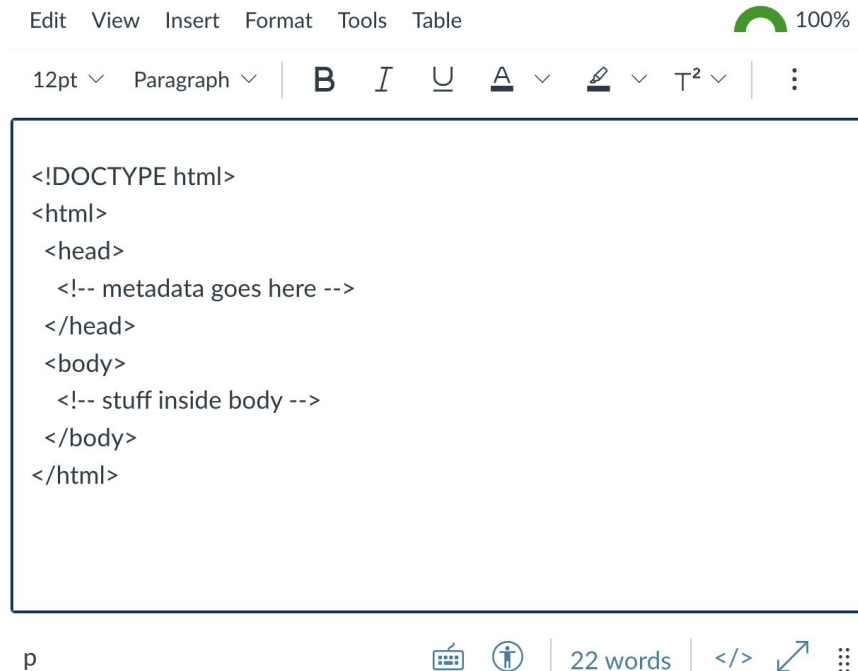
```
<> <!DOCTYPE html> Untitled-1 ●  
1 <!DOCTYPE html>  
2 <html>  
3 <head>  
4 <!-- metadata goes here -->  
5 </head>  
6 <body>  
7 <!-- stuff inside body -->  
8 </body>  
9 </html>
```

Paste the code into the  
bCourses response box  
using

⇧**SHIFT** ⌘**COMMAND** V.

Don't  
forget the  
⇧**SHIFT**  
key!

It should look like this!

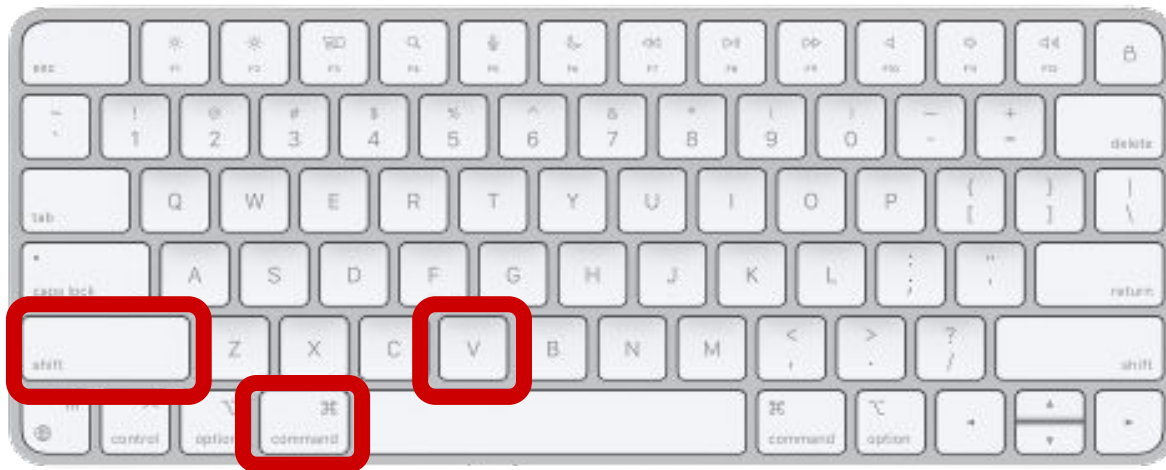


The screenshot shows a rich text editor interface. At the top, there is a menu bar with 'Edit', 'View', 'Insert', 'Format', 'Tools', and 'Table'. To the right of the menu bar is a green progress indicator and '100%'. Below the menu bar is a toolbar with various formatting options: '12pt', 'Paragraph',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

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

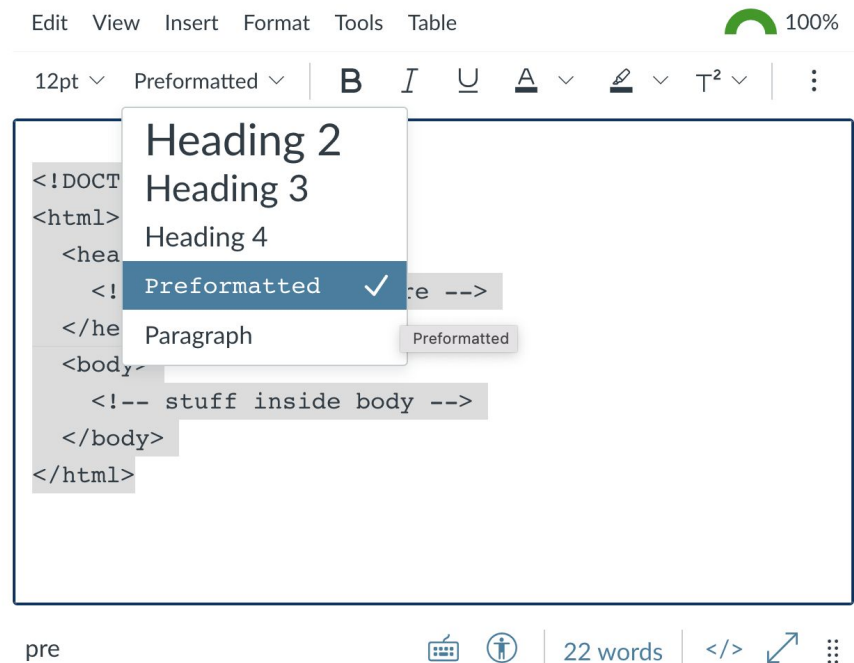
At the bottom of the editor, there is a status bar. On the left, it shows 'p'. On the right, it shows icons for a table, a person, '22 words', a code icon (</>), a link icon, and a vertical ellipsis.

⇧ **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

<https://journ220.github.io>

**Please help  
clean up:** close  
windows,  
return tables,  
etc.