

J220

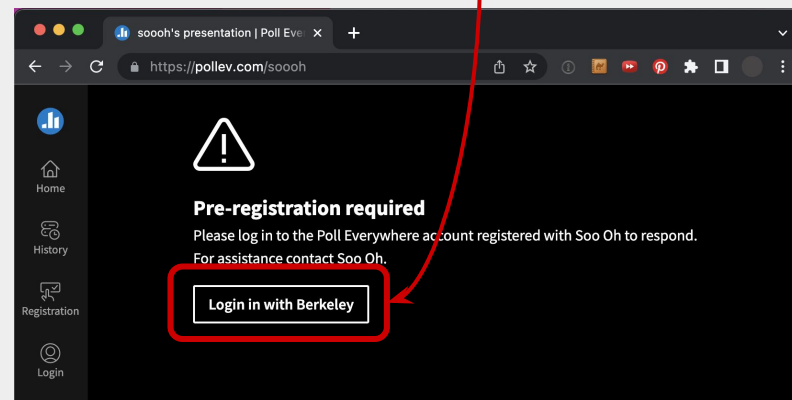
Coding for Journalists

LECTURER
Soo Oh

Lecture will
start at 6:10
pm

PROMPTS

- Take a look at the syllabus here:
<https://journ220.github.io>
- Go to this link and register for Poll Everywhere:
<https://pollev.com/soooh>



start Zoom recording

Agenda

Introductions

About J220

- How this class works
- Policies (grades, COVID, office hours)

BREAK

The building blocks of HTML

Homework

Introductions



Yoli Martinez



Soo Oh

About J220

This section used to be a set of slides.

But it's all on the website, so let's go check it out (and go through the website together, too).

<https://journ220.github.io>

Miscellaneous

Agreements

Final project

Extra credit

Our agreements with each other

We will post preliminary slides ahead of lecture.

We will be available by office hours.

You will keep up with assignments.

You will come to office hours if you're having trouble.

Miscellaneous

Agreements

Final project

Extra credit

Your final project will be to design and build a website. The rubric will be available on bCourses.

Miscellaneous

Agreements

Final project

Extra credit

There are many extra credit opportunities in this class.

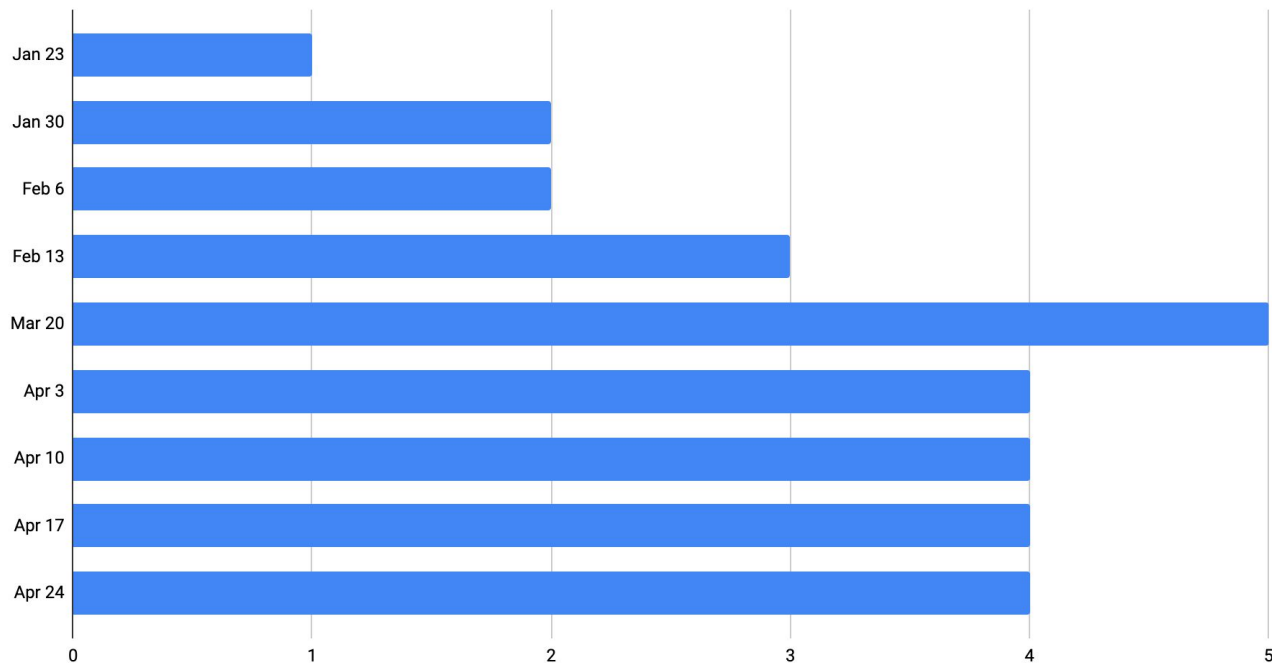
- If you book and attend office hours, you will **receive 1 point per week**.
- Almost every week, we will ask you how much time you spent on the class outside of lecture for **1 point**.
- Mid-semester evaluation: **10 points**

Previous J220 feedback

elective \neq easy

Typical time spent on J220 in Spring 2023

Median hours per week



What has been most helpful for your learning?

From last
year's
students

In-class activities (7)

Real world examples

Homework is practical/useful (5)

Code academy links

Reviewing slides/recording (5)

Accessibility focus

Homework review (2)

What has caused you the most difficulty in terms of learning?

Moving too fast (7)

Understanding concepts (6)

Too many tangents and hypotheticals (4)

HW including material not reviewed in class (2)

Class moving too slow (2)

Time constraints outside of class



If this happens, it'll be extra credit

What suggestion(s) can you make that would enhance your learning experience?

Speed of class (some concepts too fast, others too slow) (5)

More in-class activities (4)

More individual work (3)

More practical assignments

More visual aids

Career opportunities

Changes we made to J220 for 2024

- We removed one guest lecture to spread out what you're learning (a.k.a. going slower).
- We have one additional JavaScript lecture.
- We have more hands-on exercises.
- The final project rubrics will be posted on bCourses early.

Questions?

Break

Meet back in 15 minutes.

start Zoom recording

Intro to HTML

HTML

Hypertext Markup Language

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out

HTML

HTML

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out

HTML

Hypertext Markup Language

“Hypertext” is text that can link out to other things.

To “mark up” hypertext is to label text so a browser can structure it properly.

HTML

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out

HTML

```
My dog is a Korean Jindo mix.
```

HTML

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out

HTML

```
<p>My dog is a Korean Jindo mix.</p>
```

<p> tags are used for paragraphs.

HTML

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out

HTML

```
<p>My dog is a Korean Jindo mix.</p>
```

opening tag

closing tag

There's an opening tag and a closing tag.
The closing tag has a **slash** in it.

HTML

HTML element

element attributes

nesting elements

empty elements

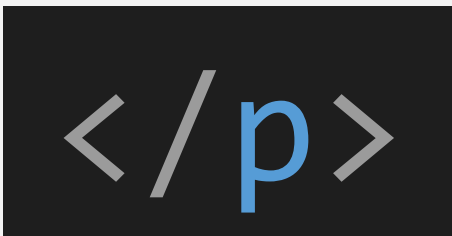
accessibility

commenting out
HTML

Opening paragraph tag

A black rectangular box containing the opening paragraph tag code <p>. The less-than sign and greater-than sign are in a light gray color, and the letter 'p' is in a bright blue color.

Closing paragraph tag

A black rectangular box containing the closing paragraph tag code </p>. The less-than sign, forward slash, and greater-than sign are in a light gray color, and the letter 'p' is in a bright blue color.

HTML

HTML element

element attributes

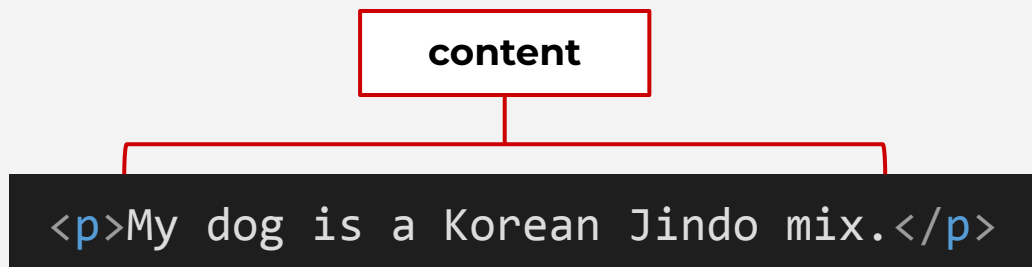
nesting elements

empty elements

accessibility

commenting out

HTML



The stuff between the tags is the **content**.

HTML

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out

HTML

element

```
<p>My dog is a Korean Jindo mix.</p>
```

The opening tag, the closing tag, and what's in between those tags make up an **element**.

HTML

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out
HTML

```
<p>My dog is a <a href="http://  
www.jindos.org">Korean Jindo</a>  
mix.</p>
```

To create a link, we'll use **<a>** (anchor) tags.

HTML

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out

HTML

```
<p>My dog is a <a href="http://  
www.jindos.org">Korean Jindo</a>  
mix.</p>
```

attribute

Elements can have **attributes**. An attribute is everything inside a tag that's not the actual tag itself.

href stands for hypertext reference

HTML

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out
HTML

attribute **name/key**

```
<p>My dog is a <a href="http://  
www.jindos.org">Korean Jindo</a>  
mix.</p>
```

attribute **value**

Most attributes come in key/value pairs...

- **href** is the **name** or **key** of the attribute
- **http://www.jindos.org** is the attribute's **value**

HTML

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out
HTML

```
<input disabled>
```

... but sometimes you'll come across attributes without values.

- **disabled** is the **name** of the attribute. The attribute has no value.

HTML

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out

HTML

```
<p>My dog is a <a href="http://  
www.jindos.org">Korean Jindo</a>  
mix.</p>
```

Nesting elements: placing an element inside another element

HTML

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out

HTML

```
<p>My dog is a <a href="http://  
www.jindos.org">Korean Jindo</a>  
mix.</p>
```

Proper nesting

```
<p><a></a></p>
```

HTML

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out

HTML

```
<p>My dog is a <a href="http://  
www.jindos.org">Korean Jindo</a>  
mix.</p>
```

Improper nesting

```
<p><a></p></a>
```

HTML

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out

HTML

Imagine an element as a box and lid.



HTML

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out

HTML



HTML

HTML element

element attributes

nesting elements

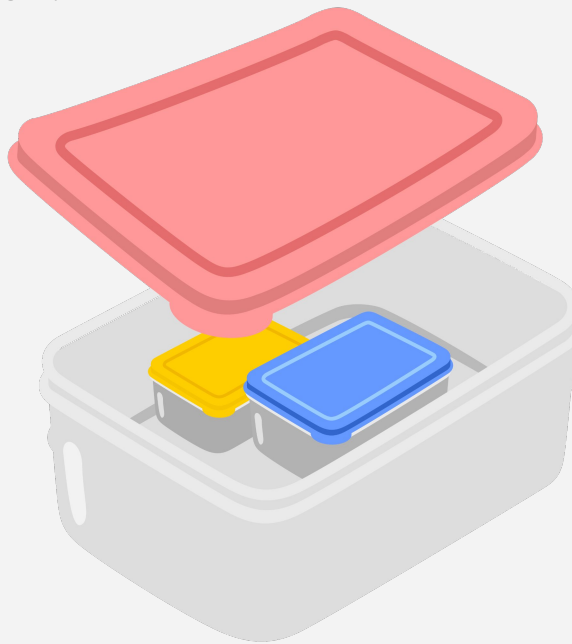
empty elements

accessibility

commenting out

HTML

You match up the box and lids. Boxes can be nested inside other boxes, and multiple boxes can be nested within a single box.



HTML

HTML element

element attributes

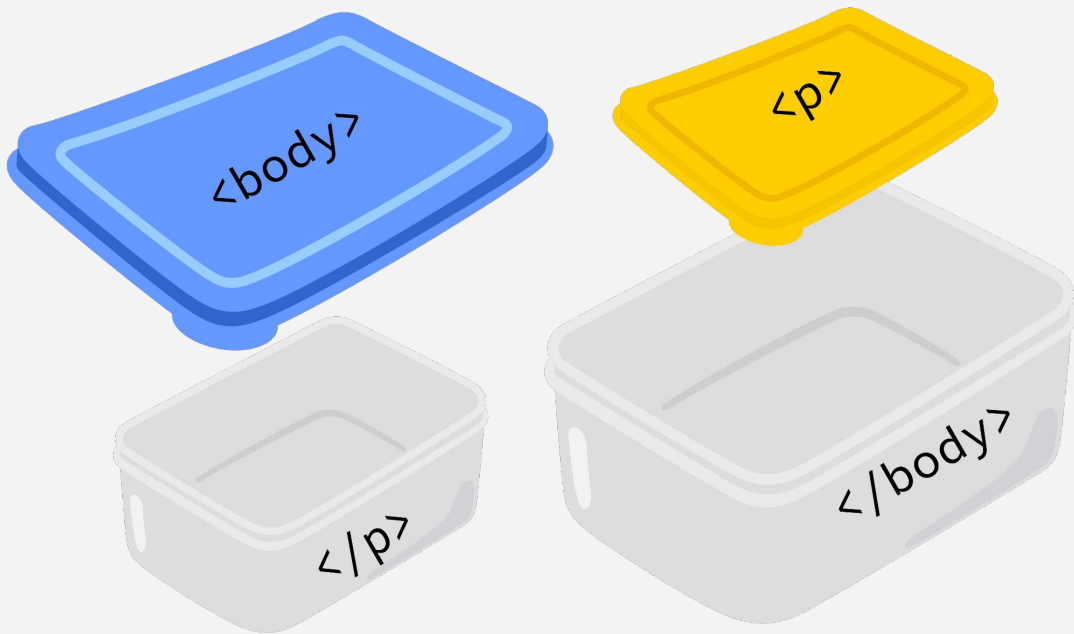
nesting elements

empty elements

accessibility

commenting out
HTML

But you can't match up boxes that don't match with their lids. It doesn't make sense. It's chaos.



HTML

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out
HTML

Q. Proper nesting or improper nesting?

```
<p><strong><a></a></strong></p>
```

(The **** tag is used to make text **bold**.)

HTML

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out

HTML

Q. Proper nesting or improper nesting?

```
<p><strong></strong><a></a></p>
```


HTML

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out

HTML

Q. Proper nesting or improper nesting?

```
<p><strong><a></strong></a></p>
```

HTML

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out
HTML

Most elements will have an opening tag and a closing tag.

However, **empty elements** do not need two separate opening and closing tags. Empty elements don't have content.

One kind of empty HTML element is the **** tag, used to embed images onto a web page.



HTML

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out
HTML

```

```

**** is the tag for embedding images.

HTML

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out

HTML

opens with angle bracket

```

```

**ends with closed
angle bracket**

**** is the tag for embedding images.

HTML

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out

HTML

```

```

**can also end with a slash
and closed angle bracket**

**** is the tag for embedding images.

HTML

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out

HTML

```

```

attributes

Empty elements don't have content but they can have **attributes**. Remember, an attribute is everything inside a tag that's not the actual tag itself.

HTML

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out
HTML

```

```

Above, the **** element has two attributes, **src** (source) and **alt** (alternative text).

HTML

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out
HTML

```

```

A **** element won't work without a **src** attribute. That's the file location of the image.

But what is **alt**?

HTML

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out
HTML

```

```

Accessibility is the practice of making your product usable to as many people as possible.

In HTML, element tags, attributes, and even the written content of your site can determine how accessible it is to users.

HTML

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out
HTML

```

```

The **alt** text attribute in an **** element is a text-based description of the image.

HTML

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out
HTML

```

```

The **alt** text attribute in an **** element is a text-based description of the image.

screen readers
will read this
text out loud

BROWSER OUTPUT WITH SLOW CONNECTION

 medium black-and-tan dog laying on
rug

HTML

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out

HTML

Who might benefit from image alt text?

- visually impaired people
- people with slow Internet
- people on a mobile device

HTML

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out
HTML

```
<p>My dog is a <a href="http://  
www.jindos.org">Korean Jindo</a> mix.  
Adoption story TK.</p>
```

Sometimes, you'll want to hide text from the browser.

HTML

HTML element

element attributes

nesting elements

empty elements

accessibility

commenting out
HTML

```
<p>My dog is a <a href="http://  
www.jindos.org">Korean Jindo</a> mix.  
<!-- Adoption story TK. --></p>
```

Use `<!--` and `-->`.

Review

In-class exercise

Combining HTML elements

WHAT I WANT

My dog is a [Korean Jindo](#) mix.

I adopted her a couple years ago from a rescue.



Use the cards to recreate the image.

Use the blank pieces of paper to write in content, attributes, and values that don't exist.

Homework

<https://journ220.github.io>