# **J220**Coding for Journalists

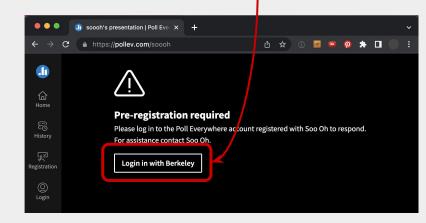
Soo Oh



#### **PROMPTS**

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

https://pollev.com/soooh



start recording + captions

### **Agenda**

Introductions

About J220

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

#### **BREAK**

**Announcements** 

The building blocks of HTML

Homework

### **Introductions**



Yoli Martinez



Soo Oh

### Why are you taking this class?



Powered by Poll Fverywhere

Start the presentation to see live content. For screen share software, share the entire screen. Get help at pollev.com/app

## About J220

Course description

Objective

Prerequisites

Required tools

Lectures

Announcements

#### Why take this class?

It is increasingly hard to work in journalism without having a basic understanding of how your work will be presented online.

In this course, you will be introduced to basic concepts, terms and approaches to web development.

Course description

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Prerequisites

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#### What you'll learn

HTML (the structure of a webpage)

CSS (the style and layout of the page)

Wireframing and web design

Basic JavaScript

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#### Goals

By the end of the semester, you will have the tools and knowhow to efficiently communicate with newsroom developers, graphics reporters and designers, whether you want to collaborate on creating a newsletter, a story page or even a site for your documentary or podcast.

Or, you might even be interested in becoming a newsroom technologist yourself.

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# Thoughtfulness and editorial judgement

How you present the work, the layout, page hierarchy and interactive elements are at their core critical editorial conversations that require the same thoughtfulness and discussion as any other journalism endeavour.

Expect to have those critical conversations in this class, too.

None:)

Course description

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Course description

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Lectures

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**Text editor**: Sublime Text (one-time payment of \$99 or ignore the prompt), Atom (free), VS Code (free)

**Color Oracle** (accessibility tool for Mac)

Laptop with a Unix or Unix-like operating system (e.g. all Macbooks)

**GitHub.com account** (it's free!)

**Polleverywhere.com** account (log in with Berkeley email)

Course description

Objective

Prerequisites

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Lectures

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# Proactive inclusivity of and respectful communication with fellow students and instructors

Course description

Objective

Prerequisites

Required tools

Lectures

Announcements

Classes will be held in person.

We will record lectures and post them to bCourses but will not offer a live Zoom option this semester. (Things that can go wrong with recordings: poor audio/video quality, poor wifi, etc.)

If you feel sick, stay home.

Course description

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A lecture may be remote for COVID-19 related quarantines, poor air quality due to fires, power outages, instructor illness or exposure, changing public health guidance, etc.

Course description

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We'll make announcements by **Slack**.

If a class needs to be shifted to Zoom, we will send an announcement by **Slack**. We will also send a **Google Calendar invite with Zoom link** to your Berkeley email address.

Attendance

Participation

Assignments

Final project

Extra credit

There will be no lectures on **President's Day (Feb. 20)** and **Spring break (March 27)**. So we only have 13 lectures together.

2 unexcused absences will result in dropping a full letter grade; 3 unexcused absences will result in an F.

Attendance

Participation

Assignments

Final project

Extra credit

We'll adhere to Berkeley time and start lecture promptly at 6:10 pm.

If you're going to be late, message both Yoli and Soo in the J-school Slack. One of us will try to monitor the Slack near the beginning of class. Be the least disruptive as you can when you arrive to not disturb the lecture and other students.

Attendance

Participation

Assignments

Final project

Extra credit

We begin this class at 6 pm to give you time to eat dinner before. So we'll only have one 15-minute break in the middle of class. Occasionally, we will end the class early.

Attendance

Participation

Assignments

Final project

Extra credit

Participation is worth 5 points per lecture for 10 lectures.

Set your phone to **silent** or **Do Not Disturb** mode before class begins. Do not text or answer calls during class.

If it's an emergency, quietly step outside to take the call.

If you need to use the restroom, you can go without asking for permission, but do your best to not disturb the lecture or other students.

Attendance

Participation

Assignments

Final project

Extra credit

Bring your laptop to class.

Don't check email, social media, notifications, or the news (!!!) during the lecture portions of the class. Be respectful of our time together.

Points will be docked if you get caught texting or browsing while in class.

Attendance

Participation

Assignments

Final project

Extra credit

Try your hardest to receive feedback constructively. Your work will be subject to intensive and substantial editing in the future.

Attendance

Participation

Assignments

Final project

Extra credit

We won't demean people for their experiences, lack of experiences, or difference in interpretation of those experiences.

We will trust that people are doing the best they can.

Attendance

Participation

Assignments

Final project

Extra credit

All assignments must be submitted on time in bCourses.

There will be no exceptions made for late assignments, except for DSP, medical, and family emergencies.

Attendance

Participation

Assignments

Final project

Extra credit

An assignment will be dropped a full letter grade for every 24 hours that pass after the deadline, starting the minute after deadline.

For example, an assignment with no mistakes will be graded as 90% one minute after deadline, 80% one minute and 24 hours after deadline, etc.

Attendance

Participation

Assignments

Final project

Extra credit

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

Attendance

Participation

Assignments

Final project

Extra credit

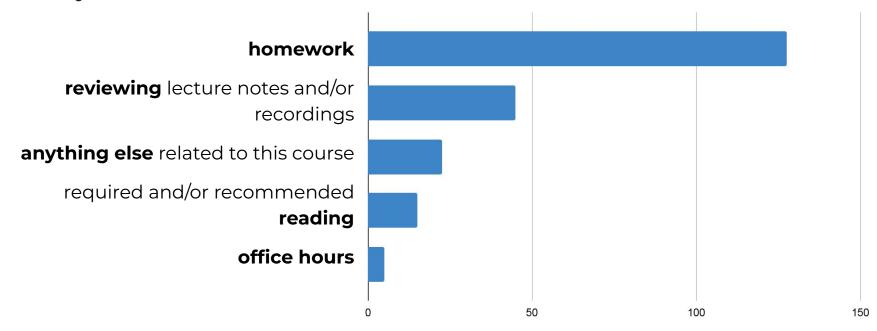
There are many extra credit opportunities in this class.

- If you book and attend office hours, you will receive 1 point per week, up to 4 points. You will lose 1 point if you do not show up or cancel after 9 am on the day of your booked office hours.
- 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

### Typical time spent on J220

In Spring 2022, students typically spent a total of 215 minutes (3.6 hours) weekly on class



# What has been most helpful for your learning?

hand-coding homework (4x)

practice topics together

office hours (3x)

sharing slides in advance

in-class assignments (3x)

asking questions in class

review material from previous lectures or assignments (2x)

online tutorials or Codecademy (2x)

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

pace too fast (5x)

not practicing more in class (3x)

coding in general (2x)

nice pace

homework too complicated

lack of visual explainers

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

practice more in class (5x)

stopping with questions

slow pace (3x)

so far so good

review homework

extra credit

more detailed example files

more iClicker quizzes

more interesting hand-coding

Codecademy/etc. as homework

homework

### Changes we made to J220 for 2023

We slowed down the class.

- Part 1 (before Presidents' Day): HTML and accessibility
- Part 2 (between President's Day and spring break): Using CSS to style
   HTML; wireframing and grid layouts
- Part 3 (after spring break): Practicing HTML and CSS; basic JavaScript; working on your final project

You don't learn any new material in the final three weeks of class — you'll be working on your final projects.

The Final project rubric is posted on bCourses.

#### Office hours

Yoli's office hours:

https://calendly.com/yolimartinez

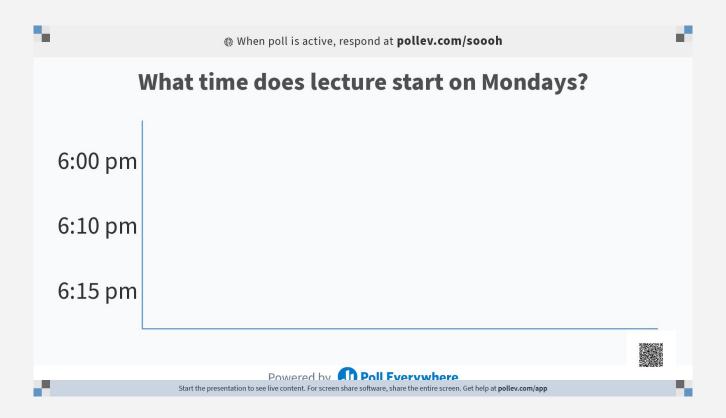
Soo's office hours:

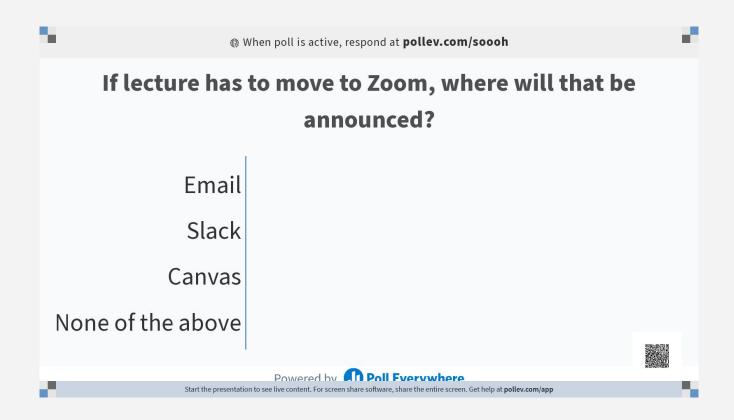
https://calendly.com/soooh/j220

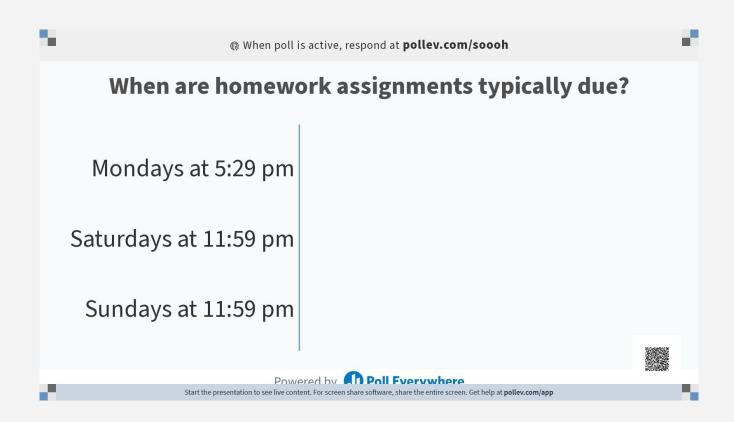
Join us in the Berkeley J-School

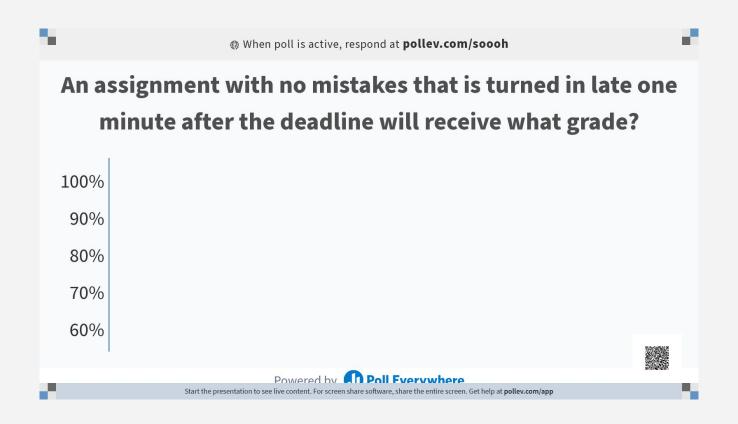
Slack Group: #j220

# Questions?









# Break

Meet back in 7:06 pm.

start Zoom recording + captions

#### **Announcements**

NICAR 2023 funding: go apply!

https://docs.google.com/forms/d/e/1FAIpQLSf05FLb0FFAP\_uYWjz8pvy0wnYmp6NuWh\_kQXtzEfVT8si8kQ/viewform

## Intro to HTML

HTML element element attributes nesting elements empty elements accessibility commenting out HTML

#### Hypertext Markup Language

HTML element element attributes nesting elements empty elements accessibility commenting out HTMI

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 element element attributes nesting elements empty elements accessibility commenting out HTML

My dog is a Korean Jindo mix.

HTMI element element attributes nesting elements empty elements accessibility commenting out HTMI

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

tags are used for paragraphs.

HTML element element attributes nesting elements empty elements accessibility commenting out HTMI



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

HTML element element attributes nesting elements empty elements accessibility commenting out HTMI

Opening paragraph tag



Closing paragraph tag

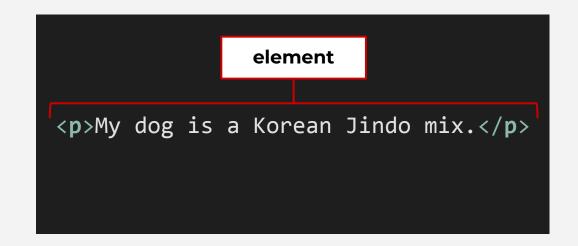


HTML element element attributes nesting elements empty elements accessibility commenting out HTMI



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

HTML element element attributes nesting elements empty elements accessibility commenting out HTMI



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

HTML element element attributes nesting elements empty elements accessibility commenting out HTMI

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

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

HTMI element element attributes nesting elements empty elements accessibility commenting out HTMI

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

**href** stands for hypertext reference

HTMI element element attributes nesting elements empty elements accessibility commenting out HTMI

```
attribute name/key

My dog is a <a href="http://
www.jindos.org">Korean Jindo</a>
mix.
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 element element attributes nesting elements empty elements accessibility commenting out HTMI



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

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

HTML element element attributes nesting elements empty elements accessibility commenting out HTML

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

**Nesting elements**: placing an element inside another element

HTMI element element attributes nesting elements empty elements accessibility commenting out HTMI

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

#### **Proper nesting**

HTMI element element attributes nesting elements empty elements accessibility commenting out HTMI

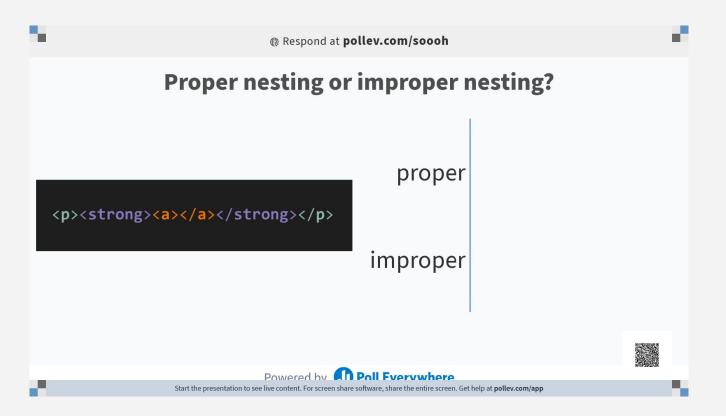
```
My dog is a <a href="http://
www.jindos.org">Korean Jindo
mix.</a>
```

Improper nesting

HTMI element element attributes nesting elements empty elements accessibility commenting out HTMI

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

proper nesting or improper nesting?



HTMI element element attributes nesting elements empty elements accessibility commenting out HTMI

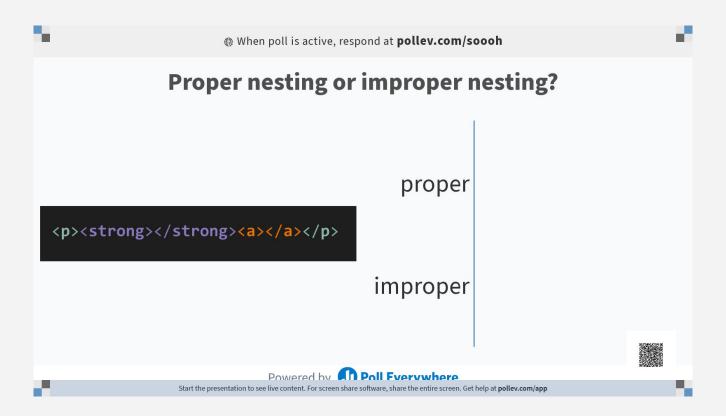
(The **<strong>** tag is used to make text **bold**.)

proper nesting!

HTMI element element attributes nesting elements empty elements accessibility commenting out HTMI

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

proper nesting or improper nesting?



HTMI element element attributes nesting elements empty elements accessibility commenting out HTMI

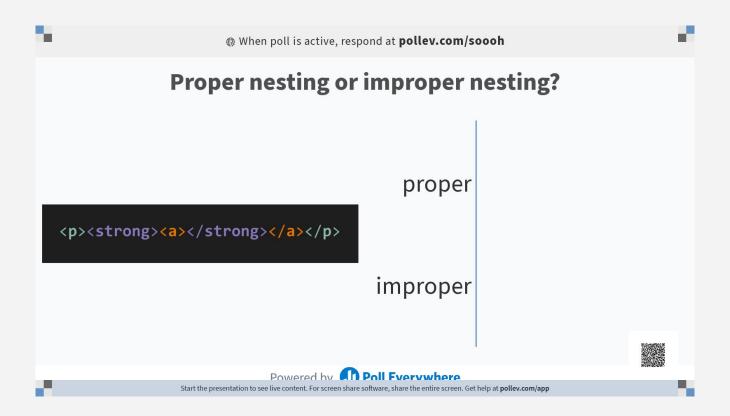
(The **<strong>** tag is used to make text **bold**.)

proper nesting!

HTMI element element attributes nesting elements empty elements accessibility commenting out HTMI

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

proper nesting or improper nesting?



HTMI element element attributes nesting elements empty elements accessibility commenting out HTMI

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

improper nesting!

HTMI element element attributes nesting elements empty elements accessibility commenting out HTMI

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 **'img'** tag, used to embed images onto a web page.



HTMI element element attributes nesting elements empty elements accessibility commenting out HTMI

```
<img src="https://soooh.net/assets/
images/6b0b8001-320.jpg" alt="medium
black-and-tan dog laying on rug">
```

<img> is the tag for embedding images.

HTMI element element attributes nesting elements empty elements accessibility commenting out HTMI

#### opens with angle bracket

```
<img src="https://soooh.net/assets/
images/6b0b8001-320.jpg" alt="medium
black-and-tan dog laying on rug">
```

ends with closed angle bracket

<img> is the tag for embedding images.

HTMI element element attributes nesting elements empty elements accessibility commenting out HTMI

```
<img src="https://soooh.net/assets/
images/6b0b8001-320.jpg" alt="medium
black-and-tan dog laying on rug" />
```

can also end with a slash and closed angle bracket

<img> is the tag for embedding images.

HTMI element element attributes nesting elements empty elements accessibility commenting out HTMI

```
<img src="https://soooh.net/assets/
images/6b0b8001-320.jpg" alt="medium
black-and-tan dog laying on rug">
```

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.

HTMI element element attributes nesting elements empty elements accessibility commenting out HTMI

```
<img src="https://soooh.net/assets/
images/6b0b8001-320.jpg" alt="medium
black-and-tan dog laying on rug">
```

attributes

HTMI element element attributes nesting elements empty elements accessibility commenting out HTMI

```
<img src="https://soooh.net/assets/
images/6b0b8001-320.jpg" alt="medium
black-and-tan dog laying on rug">
```

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

HTMI element element attributes nesting elements empty elements accessibility commenting out HTMI

```
<img src="https://soooh.net/assets/
images/6b0b8001-320.jpg" alt="medium
black-and-tan dog laying on rug">
```

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

But what is **alt**?

HTMI element element attributes nesting elements empty elements accessibility commenting out HTMI

```
<img src="https://soooh.net/assets/
images/6b0b8001-320.jpg" alt="medium
black-and-tan dog laying on rug">
```

**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.

HTMI element element attributes nesting elements empty elements accessibility commenting out HTMI

```
<img src="https://soooh.net/assets/
images/6b0b8001-320.jpg" alt="medium
black-and-tan dog laying on rug">
```

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

HTMI element element attributes nesting elements empty elements accessibility commenting out HTMI

<img src="https://soooh.net/assets/
images/6b0b8001-320.jpg" alt="medium
black-and-tan dog laying on rug">

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

screen readers will read this text out loud BROWSER OUTPUT WITH SLOW CONNECTION



HTMI element element attributes nesting elements empty elements accessibility commenting out HTMI

Who might benefit from image alt text?

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

HTML element element attributes nesting elements empty elements accessibility commenting out HTMI

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

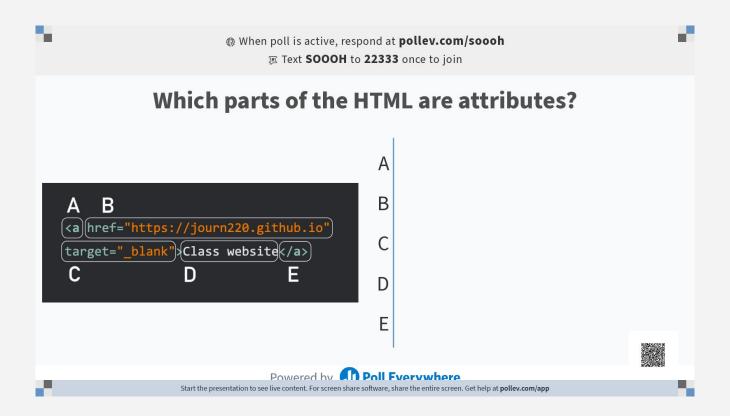
Sometimes, you'll want to hide text from the browser.

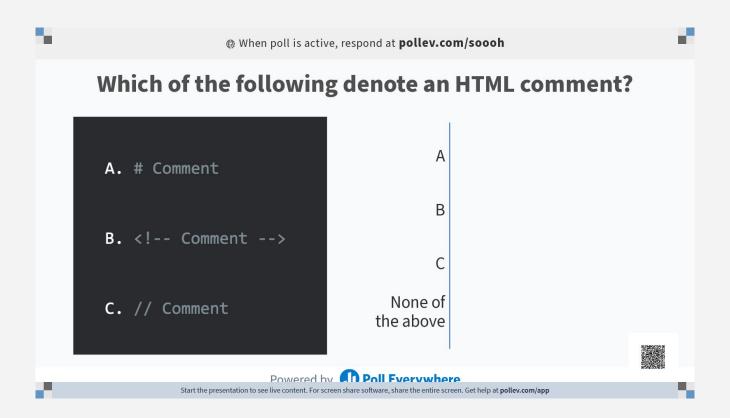
HTML element element attributes nesting elements empty elements accessibility commenting out HTMI

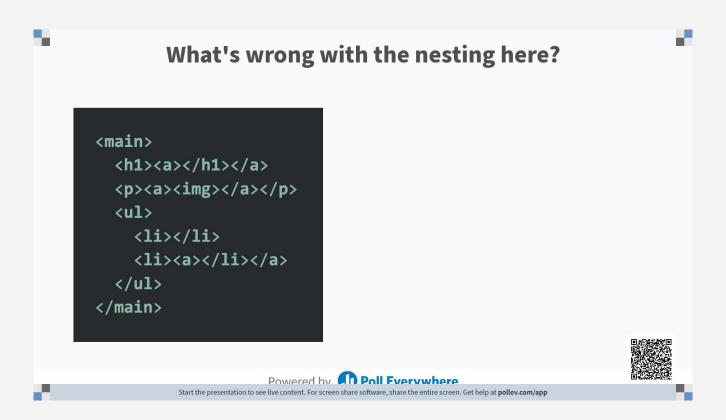
```
My dog is a <a href="http://
www.jindos.org">Korean Jindo</a> mix.
<!-- Adoption story TK. -->
```

Use <!-- and -->.

# Review







# Exercise

#### HTML

My dog is a Korean Jindo mix (http://www.jindos.org).

I adopted her a couple years ago from a rescue. Note to self: Write adoption story here.

Here's a picture of her: https://soooh.net/assets/images/6b0b8001-320.jpg

#### WHAT I WANT

My dog is a Korean Jindo mix.

I adopted her a couple years ago from a rescue.



#### HTML

```
My dog is a Korean Jindo mix (http://www.jindos.org).
```

I adopted her a couple years ago from a rescue. Note to self: Write adoption story here.

Here's a picture of her:
https://soooh.net/assets/
images/6b0b8001-320.jpg

#### **ACTUAL BROWSER OUTPUT**

My dog is a Korean Jindo mix (http://www.jindos.org). I adopted her a couple years ago from a rescue. Note to self: Write adoption story here. Here's a picture of her: https://soooh.net/assets/images/6b0b8001-320.jpg

#### HTML

```
My dog is a Korean Jindo mix
(http://www.jindos.org).
I adopted her a couple years ago
from a rescue. Note to self: Write
adoption story here.
Here's a picture of her:
https://soooh.net/assets/
images/6b0b8001-320.jpg
```

#### **BROWSER OUTPUT**

My dog is a Korean Jindo mix (http://www.jindos.org).

I adopted her a couple years ago from a rescue. Note to self: Write adoption story here.

Here's a picture of her: https://soooh.net/assets/images/6b0b8001-320. jpg

#### HTML

```
My dog is a <a href="http://</p>
www.jindos.org">Korean Jindo</a>
mix.
I adopted her a couple years ago
from a rescue. Note to self: Write
adoption story here.
Here's a picture of her:
https://soooh.net/assets/
images/6b0b8001-320.jpg
```

#### **BROWSER OUTPUT**

My dog is a Korean Jindo mix.

I adopted her a couple years ago from a rescue. Note to self: Write adoption story here.

Here's a picture of her:

https://soooh.net/assets/images/6b0b8001-320.jpg

#### HTML

```
My dog is a <a href="http://</p>
www.jindos.org">Korean Jindo</a>
mix.
I adopted her a couple years ago
from a rescue. Note to self: Write
adoption story here.
<img src="https://soooh.net/assets/</pre>
images/6b0b8001-320.jpg" alt="medium
black-and-tan dog laying on rug" />
```

#### **BROWSER OUTPUT**

My dog is a Korean Jindo mix.

I adopted her a couple years ago from a rescue. Note to self: Write adoption story here.



#### HTML

```
My dog is a <a href="http://</p>
www.jindos.org">Korean Jindo</a>
mix.
I adopted her a couple years ago
from a rescue.<!-- Note to self: Write
adoption story here. -->
<img src="https://soooh.net/assets/</pre>
images/6b0b8001-320.jpg" alt="medium
black-and-tan dog laying on rug" />
```

#### **BROWSER OUTPUT**

My dog is a Korean Jindo mix.

I adopted her a couple years ago from a rescue.



# Homework

https://journ220.github.io