

Interactive Web Exam Instructions

Welcome to the Interactive Web Exam! This exam will challenge your understanding of HTML, CSS, JavaScript, and accessibility concepts. Each challenge requires you to interact with web pages, manipulate URLs, identify issues, or submit corrected pages. Follow the instructions for each section carefully and submit the required URLs or answers as specified. All URLs must be using the deployed github page, not local files.

Begin at https://colleenvanlent.github.io/339_final_exam/

0. Create a deployable Github pages site named 339final

Submit the complete URL as your answer:

1. URL Suffix Challenge (10pts)

Navigate to the contact section of the page using a URL fragment. If you have the correct answer, you will get a notification (but sometimes you need to reload the page to see it).

Submit the complete URL as your answer:

https://colleenvanlent.github.io/339_final_exam/url_suffix.html#contact

2. Form Input Challenge (15pts)

Fill out a form correctly by entering the required information into the input fields. Upon successful submission, the page will redirect to a new URL. Copy this URL and submit it as your answer.

Part A: green

Oh no!! The submit button is missing. Enter the proper URL to simulate the submission with the name of "Bacon"

Part B: https://colleenvanlent.github.io/339_final_exam/success.html?name=Bacon&q=f1

Part C: dog

Commented [1]: If someone were savvy enough they could go to the repo associated with this page, go to the exam.js file, and see many of the answers in there

https://github.com/ColleenVanLent/339_final_exam/blob/main/js/exam.js

Commented [2]: When first looking at this step I was unsure whether it meant to try to clone your github 339_final_exam repo or make my own.

I think the language could be clearer--something like "create a new github repository called 339final and deploy a page for the repository" that's a little descriptive would be a little less confusing

It might even be helpful to put this step later in the process. Maybe do the first couple tasks first and then create the repo only when it's time to do the w3c, axe, and lightbox

Commented [3]: This part was overall confusing to me because it's not immediately connected to the following questions. I understand that it's testing my ability to create a deployed page (which is a valuable skill), but since it doesn't connect to question 1 or 2 it was strange to try to figure out how it does

The deployed page you link right above does a really good job of explaining this. Maybe copy paste that in?

Commented [4]: I like this question - makes you use inspect element. It was relatively intuitive to me but I don't really know how it would be for others

Commented [5]: Was not initially clear whether this was part of Part A or Part B

Commented [6]: It would be helpful if the popup contained the link to the form input page instead of having to manually type it in. Don't know if that's what you're going for, though

Commented [7]: I only found this part looking through the JS file. The alerts stopped working for me this afternoon when they were working late last night after you initially published it. I tried using the same input as I did yesterday for part A and it wasn't giving me a popup

Commented [8]: Tried it on two different browsers and no luck

3. CSS Selector Challenge (15pts)

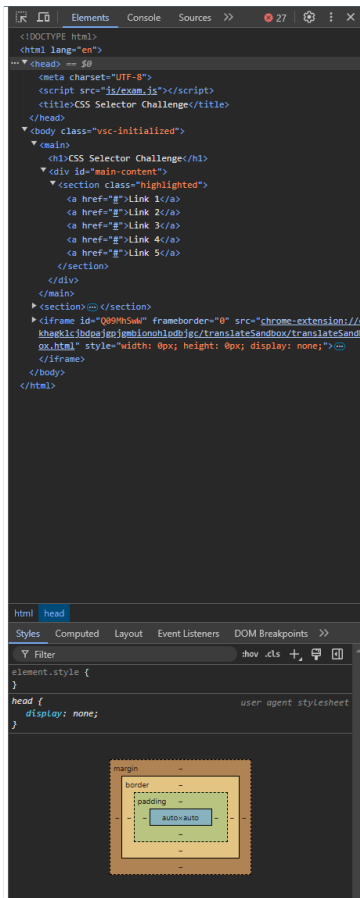
Identify the most specific CSS selector for the second link on this page (as provided by Developer Tools). Enter the selector in the textbox and hit Enter to check your answer.

Submit the complete selector as your answer:

html body main div#main-content section.highlighted a

Commented [9]: Again gotten from the JS. Even when I copy pasted this into the form input I didn't get anything back on my browser

Commented [10]: There isn't any css linked on this version of the page



4. Color Contrast Check (15pts)

Identify which text on the page fails WCAG 2.1 color contrast guidelines. Submit the colors of the foreground and background as URL parameters. For example,

Submit the foreground color: #FF0000

Submit the ~~foreground~~-background color: #FFE5E8

Submit the foreground color as an RGB value: (255, 0, 0)

Commented [11]: Duplicate

Commented [12]: changed second to "background"

Commented [13]: Duplicate

Commented [14]: changed second to "background"

Commented [15]: Necessary?

5. W3C Validator Challenge (15pts)

Make a local copy of the html. Correct the errors and submit the page for validation via the W3C Validator (<https://validator.w3.org/>). Once you receive a 'No Errors' and 'No Warnings' result, host the page on your Github Pages site. All of HTML code must be wrapped for easy reading.

Commented [16]: Make sure people are aware they can upload a file to w3c so they don't have to wait for the page to deploy every time

Submit the complete URL to your deployed page as your answer:

https://npisar.github.io/339final/w3c_validator.html

6. aXe Validator Challenge (15pts)

Make a local copy of the html. Submit the page for validation via aXe and correct the errors. You can (and should!) leave the image/icon links broken, but you do need to fix any errors associated with them. Once you receive '0 Errors' host the page on your Github Pages site.

All of HTML code must be wrapped for easy reading.

Submit the complete URL to your deployed page as your answer:

https://npisar.github.io/339final/axe_validator.html

7. Lightbox Exploration (15pts)

Once you are done, host the page on your Github Pages site.

All of HTML code must be wrapped for easy reading.

Submit the complete URL to your deployed page as your answer:

<https://npisar.github.io/339final/lightbox.html>

Commented [17]: Make it clear that best practices need to be turned on in axe

Commented [18]: You can get 0 errors without having any visible text to the instagram link if you add an aria-label. I added text but the icon wasn't loading in because fontawesome wasn't linked in the head. I added it too-- maybe that could be a part of the Q? or if you want the icon to be gone and replaced with text that could work too

Commented [19]: This one got repetitive. It took a bit to manually add everything once I got lightbox added to the page. I like the question but it was just a little tedious

Other Feedback

- This exam took a while to complete. I would say give at least 2 hours, maybe more.
- The questions were relevant to what we covered in class
- As someone who was pretty successful in the course, I didn't have too much trouble with any of the content once I figured out what the questions were asking me
- I think that if some things were re-worded or re-worked, it would be a little bit more understandable for students and they could focus more on the content instead of trying to figure out the what the questions mean