Web Programming Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Activity 2.4 – Build a Quiz

Points: \_\_\_\_\_\_\_\_\_\_ / 55

Accessibility is making your webpage easy for all people to use – even people with disabilities. In this course, you'll build a quiz webpage. You'll learn accessibility tools such as keyboard shortcuts, ARIA attributes, and design best practices.

1. First, using Google, answer these questions in your engineering notebook...

a. What does the inherit value do when used for the CSS color property?

b. What is a screen reader?

c. What is UTF-8?

d. What does SEO stand for? What does the term mean?

e. How do the CSS top and position properties alter an element?

2. Next, read this [article](https://developer.mozilla.org/en-US/docs/Web/CSS/text-decoration) about the text-decoration property. As you read, answer the following questions in your engineering notebook...

a. What is the purpose of the text-decoration property?

b. What are some common values and how does each change the text?

3. Next, read this [article](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/meta) about the <meta> element. As you read, answer the following questions in your engineering notebook...

a. What is the purpose of the <meta> element?

b. What does the charset, name, and content attributes specify?

4. Next, read this [resource](https://its.umich.edu/web-strategy/seamless-experience/visual-design/style-guide#:~:text=A%20style%20guide%20is%20a,more%20efficient%20design%2Ddevelopment%20workflow.) about style guides. In addition, check out the [style guide](https://design-style-guide.freecodecamp.org/) for freeCodeCamp. As you read, answer the following question in your engineering notebook…

a. What is a style guide?

b. What information is included in a style guide?

c. Why is it important for a website or company to have a style guide?

5. Next, read this [article](https://developer.mozilla.org/en-US/docs/Web/CSS/:not) WAI-ARIA roles. As you read, answer the following questions in your engineering notebook…

a. What is the purpose of roles?

b. What does the region role indicate about a <section>?

6. Finally, read this [article](https://developer.mozilla.org/en-US/docs/Web/HTML/Global_attributes/accesskey) about the accesskey attribute. As you read answer the following questions in your engineering notebook...

a. What is an access key?

b. How are access keys activated in Firefox, Edge, and Google Chrome?

7. Download and extract the project folder from GitHub using the link provided in Google Classroom. Once extracted, rename the project folder using proper naming practices.

8. Next, open the file named *index.html*. Add a comment at the top of the document with the project name, your name, today’s date, and the title of the course on separate lines. Then open the file named *styles.css* (located in the styles folder) and add a comment at the top of the document with the same information. All content you add to the documents should be under these comments.

9. Login to [freeCodeCamp](https://www.freecodecamp.org/). Using the steps provided under [Learn Accessibility by Building a Quiz](https://www.freecodecamp.org/learn/2022/responsive-web-design/#learn-accessibility-by-building-a-quiz), complete the website. You should complete the work in Visual Studio Code and copy and paste the solution to each step into freeCodeCamp to check your answer. The following steps have different instructions for VS Code or hints to help you complete the step...

a. Step 3 – Look back at [Activity 1.2 – Café Menu](https://classroom.google.com/c/NjY3MzgyOTc4NTUw/a/NjY5MDU0MTA3NjY1/details).

b. Step 7 – Instead of using the provided link, please use the image inside the images folder. The path to the image should be "images/fcc\_primary.svg".

c. Step 28 – Use the following for the questions:

The legend element represents a caption for the content of its parent fieldset element.

A label element nesting an input element is required to have a for attribute with the same value as the input's id.

d. Step 36 – Use the following for the questions:

Can the CSS margin property accept negative values?

Do you have any questions:

e. Step 39 – Set the number of rows to 5 and the number of columns to 27. In addition, use "What is flexbox..." as the placeholder text.

f. Step 46 – Set the contrast ratio by setting the color to something light, such as #dfdfe2, which is from freeCodeCamp’s style guide.

g. Step 48 – Review flexboxes from [Activity 2.2 – Photo Gallery](https://classroom.google.com/c/NjY3MzgyOTc4NTUw/a/Njc4NDQ2OTI5ODUw/details).

10. When your website is complete, please do the following…

a. Compress the project folder and submit it to Google Classroom.

b. Print a copy of *index.html* and *styles.css*. Add these to your engineering notebook. Highlight and annotate your code.

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| **Project Criteria** | |
| Criteria | Point(s) |
| <head> element contains all the necessary non-visible and visible elements to provide the necessary meta data for the website. | /6 |
| <body> element contains all the necessary visible elements to construct the quiz. | /35 |
| Website has the correct overall style and structure. | /5 |
| **Development Mechanics** | |
| Criteria | Point(s) |
| All elements are structured using best practices. | /2 |
| Project folder/director structure follows industry best practices. | /2 |
| All folders/directories and files use proper naming style (i.e., file-name). | /2 |
| All documents use whitespace and comments to help organize the code. | /2 |
| Project root folder/directory has an appropriate name. | /1 |
| All documents have a comment at the top that includes the program’s title, the student’s name, the date, and the course’s title. | /1 |

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