

Website link: <https://geog3540.github.io/gekoziol/>

1. What is a client and what is a server?
 - **A client is a system that requests services from a server, such as a phone or laptop. A server is a system that provides services, such as a web server that stores html documents and CSS stylesheets and delivers them to the client by displaying text, images, etc.**
2. How does a server know which file to read initially and why?
 - **A server first looks for index.html files because this behavior is the default for the browsers.**
3. What does a code repository do and why is it important?
 - **A code repository is a collection of code and data; they keep all the versions of your code in one place. They are important for collaboration, as it allows you to share code (and in our case, our assignments and projects), with others.**
4. Why do we create external CSS files while we can use styling inside of an html?
 - **We create external CSS files to separate the html content from CSS design and therefore reduce the clutter in our html files. After the CSS file is written, it can easily be linked in the heading of the html document.**
5. What does the “div tag” do, and how is it useful?
 - **The “div” tag defines a division or a section in HTML, essentially containing HTML elements. Grouping elements together is useful so that they can be collectively styled using CSS, saving time and avoiding having to style each content element separately.**
6. To describe styling in an html file, which tag do you need to use?
 - **To describe styling in an html file, use the <style> tag. Specify, with code, what elements you are styling and how (e.g., change the paragraph background color using “p {background-color: #dddddd}”) and close using </style>.**
7. How do you create a link in the index.html which points to a file inside the same folder as the index.html?

- To create a link in the index.html that points to a file inside the same folder as the index.html, you must specify which folder your file is in prior to the image name. For example, let's say that you are trying to link an image called "bivariatemap.png" that is located in a folder called "images." The code would be as follows: "images/bivariatemap.png."

8. What is a template and how is it useful for web site building?

- A template is an HTML, CSS, and/or JavaScript project (essentially a website base) that can be downloaded and customized. It is useful because it prevents us from having to manually input each line of code and because it provides design ideas.

9. What does "pull" and "push" mean in using GitHub?

- A "pull" is when you apply any changes from your central repository on the web to your local repository. On your local computer, you will click "fetch origins" and then "pull origin" to get the latest version of your code on GitHub desktop.
- A "push" is when you apply any changes from your local repository to your central repository on the web. You will need to "commit to master" and add a description of your changes, then "pull origin" to update your GitHub page.

10. Why do we need to run a local web server? How do we run a local server using Python?

- We run a local web server to avoid having to go through GitHub and use the "push" function every time we want to display our code changes. In addition, GitHub does not always update right away, so using a local server allows us to see our changes quickly.
- To run a local server using Python 3.0, we can open Python Command Prompt, type "cd," then paste our index file path. Next, hit enter and run the code "python -m http.server." Hit enter again, and Python will start to search local web servers and read from your index file. Open a new tab in your browser and type in "localhost:8000" to display your website on a local server.