

**1. What is a client and what is a server?**

- a. A client is a computer that access a server. A server is a node on the internet that offers services (such as web pages or other files) to the client.

**2. How does a server know which file to read initially and why?**

- a. A file called index.html is provided first by default. It contains information to build the web page that users will see when they open a web page. The index.html file will link to other files, images, etc.

**3. What does a code repository do and why is it important?**

- a. A repository is storage for a collection of code and the versions of that code.

**4. Why do we create external CSS files while we can use styling inside of an html?**

- a. Styling can take a lot of lines of code. Keeping the styling in a separate document will keep things organized and the main web page structure separate from the styling.

**5. What does the “div tag” do, and how is it useful?**

- a. The div tag defines a division or section of an html page. The div tag keeps the coding organized by sorting content into containers

**6. To describe styling in an html file, which tag do you need to use?**

- a. To add styling to a document you should use the tags `<style>` and `</style>` to start and end the styling.

**7. How do you create a link in the index.html which points to a file inside the same folder as the index.html?**

- a. To add a link you will use the “a tag” which defines hyperlinks. To create the hyperlink you use “href” inside of the “a tag”. Since the file is in the same folder as the index file, you just need to include the file name after “href=”. For example: `<a href="shortbio.html">Alyssa Schaeffer's Geovisualization Portfolio</a>`. Where the title of the hyperlink is the second portion of the code.

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

- a. Templates are files with pre-coded components. This saves time in building the web site as the base structure is already built and you just have to fill in some portions.

**9. What does “pull” and “push” mean in using GitHub?**

- a. The push command sends local repository content to a remote repository to share modifications. Pull is used to fetch and merge changes from the remote repository to the local repository.

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

- a. Pushing changes to the remote repository is time consuming when it comes to editing a website. A local server allows you to see changes in real time to help build a website that is functional and aesthetically pleasing. To run a local server using Python you have to navigate to the website folder and run the following command to start the local server in that folder: `python -m http.server`. Then you open <http://localhost:8000> in your browser to see the website in real time.