

Quiz 1 Study Guide: CSCI 344 (Spring 2026)

To study for the first quiz, please review the slides, required readings, and exercise files from Weeks 1-4. I have summarized the topics that you will be quizzed on below:

1. How the Web / Internet Work

Please be prepared to explain what the following terms mean and what they do / why they're important (in your own words).

The Internet

- What is the Internet?
- What is the web?
- How are they different?
- What is the cloud?
- What is TCP/IP?
- What is a domain name?
- What is DNS?
- Who invented the Internet?
- Who controls the Internet?
- Where is the Internet?
- What is Net Neutrality?
- What kind of data do you generate as you use the Internet?
- Who can see your data and how can they see it?

The Web

- Who invented the world wide web?
- What is a URL?
- What is HTTP?
- What is a web browser? What are some examples?
- What can a browser do? What languages does it understand?
- What is a web server? What languages does it understand?
- What is a search engine? What are some examples?
- How can someone "own" a domain name?

2. File Organization

- Know the naming conventions (**all lowercase**, no spaces, no special characters other than underscores and hyphens).
- Know how to specify **relative paths** (linking between files in different folders).

- Know the difference between **relative paths** and **absolute paths**.

3. HTML

- Know the HTML Rules of Thumb
- Be familiar with the basic HTML tags we've been working with, including:
 - Images
 - Hyperlinks (absolute, relative, and internal)
 - Paragraph and header tags (**<h1>...<h6>**)
 - Embedding iFrames
 - Semantic tags (**<header>**, **<nav>**, **<section>**, **<article>**, **<footer>**, **<aside>**)
 - Ordered and unordered lists (****, ****)
- Know how to make a comment (`<!-- your comment here -->`)
- Know how to link to a style sheet
- Know what goes in the **<head></head>** section and what goes in the **<body></body>**.
- Know how to make an HTML file and a CSS file from scratch using VS Code (like you did in Tutorial 3).

4. CSS Basics

- Know the CSS Rules of Thumb
- Know how to use the following 5 selectors: id, class, element, descendent, direct child.
 - id example: `#myElement { ... }`
 - class example: `.myClass { ... }`
 - element example: `h1 { ... }`
 - descendent example: `nav a { ... }`
 - direct child example: `nav > a { ... }`

To Practice:

- Play the [CSS Diner Game](#) and review Tutorial 3
- Review the CSS Selector slides
- Know how to set some common properties:
 - Box model properties (**width**, **height**, **padding**, **margin**, **border**)
 - Color properties (**color**, **background-color**)
 - Font properties (**font-family**, **font-weight**, etc.)
- Know how to make a comment (`/* your comment here */`).

5. CSS Media Queries

Know how to make a media query for tablet and mobile devices in your CSS file.

Example:

```
@media screen and (max-width: 800px) {  
  
    /*  
    Individual rulesets go here; these rules kick in  
    when the screen is 800px or less.  
    */  
  
}
```

Also, to ensure your media queries are honored on mobile devices, you need to include a meta tag in the `<head></head>` of your html file:

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

6. Know how to use Flexbox

- Know what properties and values need to be set in the **flex container** (parent):

display	flex
align-items	flex-start , flex-end, space-around, space-between, center
justify-content	(same options as align-items)
flex-direction	row , column, row-reverse, column-reverse
flex-wrap	no-wrap , wrap, wrap-reverse

- Know what properties and values are typically set in the **flex item** (child)

padding, margin, width, height, border

- To practice, play [Flexbox Froggy](#) and review Tutorial 3

7. Know how to use CSS Grid

- Know what properties and values need to be set in the **grid container** (parent) element:

- **display** (should be set to **grid**)
- **grid-template-rows**
- **grid-template-columns**
- **gap**

- What needs to be set in the **grid items** (child elements)?

- **grid-column-start**

- `grid-column-end` (with or without span keyword)
- To practice, play [CSS Grid Garden](#) and review Tutorial 3

8. Accessibility Principles

- Name some of the things you need to take into consideration when designing for accessibility?
- What are things you can do in your HTML to ensure that they're screen-reader compatible?