

# Quiz 2 Study Guide: Spring 2023

## Overview

Quiz 2 will focus on CSS, with emphasis on what we have learned since Quiz 1 (mostly layouts). Please be familiar with everything we've already covered in [Quiz 1 Study Guide](#) – especially **CSS selectors** and **CSS units**. In addition to what is covered on the Quiz 1 Study Guide, please be familiar with the topics listed below.

## How to Study

- Make sure you are familiar with the [Quiz 1 study materials](#) and that you understand the [Quiz 1 solutions](#) (Taco Temple).
- Make sure you review Homework 3-5 and that you understand how you achieved your various answers. You will be asked to build something similar to the layouts / styles you made in the homework exercises.

## New Topics

### 1. 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">
```

## 2. 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**
  - **grid-template-areas**
  - **row-gap**
  - **column-gap**
- What needs to be set in the **grid items** (child elements)?
  - **grid-column-start**
  - **grid-column-end** (with or without span keyword)
  - **grid-area**
- To practice:
  - Read [A Complete Guide to Grid](#), which is an excellent resource.
  - Playing [CSS Grid Garden](#)
  - Review [Homework 4](#)

## 3. Know how to use Flexbox

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

|                        |   |
|------------------------|---|
| <b>display</b>         | <b>flex</b>   |
| <b>align-items</b>     | <b>flex-start</b> , flex-end, space-around, space-between, center |
| <b>justify-content</b> | (same options as align-items)                                     |
| <b>flex-direction</b>  | <b>row</b> , column, row-reverse, column-reverse                  |
| <b>flex-wrap</b>       | <b>no-wrap</b> , wrap, wrap-reverse                               |
- Know what properties and values are typically set in the **flex item** (child)

**padding, margin, width, height, border**
- To practice:
  - Read [A Complete Guide to Flexbox](#), which is an excellent resource.
  - Play [Flexbox Froggy](#)
  - Review [Homework 4](#)

## 4. CSS Flourishes

- Know how to use a pseudo-classes to create a hover effect

- Know what a transition is and how to use it
- Know how to make a background image
- Review the [Advanced CSS Techniques](#) unit

## **5. Design & Accessibility Principles**

- What are some of the principles of composition that should guide your website?
- What should you take into consideration when selecting colors? Fonts?
- 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?