Module 4 Day 5

Responsive Design

Responsive Design

- A page should respond to the user's environment based on screen size, platform, and orientation (landscape / portrait)
- Three areas to consider:
  - Flexible grid layouts
    - Percentages, not pixels
  - Responsive images
    - Percentages, not pixels

    ```
    img {
        width: 100%;
        height: auto;
    }
    ```
  - Changing layout entirely based on screen characteristics

Media Queries

- Selectively apply CSS based on screen / environment characteristics
    - The @media rule:
        - https://www.w3schools.com/cssref/css3_pr_mediaquery.asp
    - Breakpoints
        - The width where "something changes" in the layout
        - Breakpoints are your choice. You may have zero, or many
        - Bootstrap's breakpoints, for reference ➔
- Remember, the order of CSS matters! https://www.w3schools.com/cssref/tryit.asp?filename=trycss3_media2

```
// Extra small devices (portrait phones, less than 576px)
// No media query since this is the default in Bootstrap

// Small devices (landscape phones, 576px and up)
@media (min-width: 576px) { ... }

// Medium devices (tablets, 768px and up)
@media (min-width: 768px) { ... }

// Large devices (desktops, 992px and up)
@media (min-width: 992px) { ... }

// Extra large devices (large desktops, 1200px and up)
@media (min-width: 1200px) { ... }
```