CSS IS AWESOME

Module 4 Day 3 CSS Grid Layout

Aside: CSS Variables

Used to apply styles consistently and make change easier

Grid Container

- Usually used to divide a page into sections
 - Such as this: https://gridlayout.io/demos/holy-grail.html
- Setup a Grid Container

Grid items are the <u>Direct Children</u> of the grid container

Grid Items

- Grid Items are direct children of the grid container in the HTML
- Assign *Grid Items* to a grid area

```
grid-area: name1;
grid-column-start/end, grid-row-start/end: linenumber>
```

Grid Examples and Docs

- FireFox Grid Tools
- https://www.mozilla.org/en-US/developer/css-grid/
- https://gridbyexample.com/
- https://css-tricks.com/snippets/css/complete-guide-grid/
- https://developer.mozilla.org/en-US/docs/Web/CSS/CSS Grid Layout/Basic Concepts of Grid Layout
- http://cssgridgarden.com/



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) { ... }
```

