## CS 135I - Week 3 Activities Getting Ready

Complete the online readings from this week’s Moodle unit, ideally *in advance* of our class meeting. This week, we’re reviewing what we know about CSS flexboxes as layout tools and adding new material on CSS Grids

### Class work

* Work through the W3Schools exercises for transforms, transitions, and animations
* Apply CSS transform, transition, and animation concepts to a pre-built HTML page

### Homework

* This week, you have a “choose your own adventure” experience. Use what you know about transforms, transitions, and animations to either:
  1. **Create an animated home page for an artist's portfolio**.
     1. You should have a logo composed of the artist’s initials and CSS shapes. The initials should be fancified by:
        1. Adding a special font face
        2. Adding some sort of colored shape(s) around or near the initials.
           + You can create the shape foundations either with regular HTML elements (divs, sections, spans, etc) or in your CSS using *before*and *after* pseudoclasses. Rectangles and ovoids are the easiest, but these can be [combined](https://codepen.io/t_afif/pen/XWzNdgR) in [interesting ways](https://daily-dev-tips.com/posts/css-logos-nike-logo/).
           + You may also find that drawing polygons with the clip-path property is useful if you’re after more complex shapes. This isn’t exactly within the scope of this week’s lessons, so feel free to use a [clip-path maker](https://bennettfeely.com/clippy/) if you like!
        3. Adding an animated effect to the text or the shape(s) or both when users hover over the logo.
     2. There should be at least three portfolio items on the page.
        1. Some sort of interesting effect should occur when users hover over one of the portfolio items. Will descriptive text be revealed? Will the image become an overlay of the page? Will the image “light up” or reveal that it was just a small part of a larger whole? It’s up to you to decide!
  2. **Create beautiful navigation elements on a page of your choice**.
     1. There should be a main navigation bar that includes a drop-down (or slide out) menu.
        1. Each element in the main navigation bar should have a gradual animation or transition effect when users hover over the element. The specifics of this are up to you - colors, weights, sizes, etc. are all up for grabs.
        2. A transition should be used to reveal the drop-down (or slide-out) menu smoothly.
     2. There should be at least one special action-item “button” somewhere on the page.
        1. Clicking on this button should toggle an animation or transition effect on the page. Side bars might slide in/out, additional content might fade in/out, a looping logo animation might start or stop. It’s all up to you!
  3. Create a folder named *yourLastName-hw03* on your computer.
  4. Inside the folder, create the HTML and CSS needed to build the page of your choice, as described above.
     1. Your HTML should
        1. be valid, of course, and follow all our typical coding conventions.
        2. Make good use of the semantic markup tags to identify the sections that you might need.
        3. Contain a viewport meta tag so that mobile browsers do not automatically “zoom out” to show the entirety of the page
        4. Contain sufficient content to make it immediately obvious whether you have chosen option A or option B.
     2. In your CSS file create the effect required according to your chosen option.
        1. Ensure that your CSS is valid and easy to read and maintain.
  5. Test your page for the final time in the browser, confirming that it performs as expected. Upload your zipped folder to the appropriate submission area in Moodle.