**Week 2: Homework Assignments – CSS (cascading style sheet)**

1. What are CSS Grid & Flexbox? Which might you use, one over the other?

**CSS Grid:** is a two-dimensional layout system. It's used with two rows and columns. It's used to create more complex and organized layouts. To define the grid container, you must pass a display: a grid property to your element.

**CSS Flexbox:** Whereas the flexbox model is a one-dimensional layout, its main use is to allocate and align spaces among items in its container grid. It works well with diverse types of screens and sizes. The Flexbox model makes it easier when creating a responsive webpage page, without using floats and position properties. The best way to start using a flexbox model when creating a webpage, you must create a container using the display flex property (display: flex). All the elements inside this flex property with response with flexing them items. The difference between the two is that flexbox has a one-dimensional layout, while Grid has a two-dimensional layout.

I believe it depends on the type of webpage I want to be working on. I like the flex display because I can stretch the layout to the max as much as I possibly can. Flexbox takes a basis in the content while grid takes a basis in the layout. With the Flexbox, and creating a small design, a few rows, and columns, you'll need to align the element, and you need everything to fit inside. Whereas the Grid-layout is for a more complex design. Being that I am still new to this, so I'm still figuring out mu comfortability, but in my opinion, I feel that I'd choose flexbox.

2. Explore the CSS box model and its significance in determining the layout and spacing of elements on a webpage. Research the components of the box model, including content, padding, border, and margin.

The CSS box model is known for its use when working in design and layouts. It’s essentially known in the HTML world because it’s mainly used in HTML to wrap everything in html into a box. It includes the margin, adding a border, padding and then the content inside the box. This is used on all four sides. This is good for the user’s ability, when navigating through a website. It organizes the layout better so that users can understand the content on the pages and what they are reading. It increases layout control which is better for the developer when writing code. The space, content presentation, which is good for the padding and the borders around the content. Consistency and compatibility, which makes it a lot easier to navigate through your webpage.

Source: <https://www.simplilearn.com/tutorials/css-tutorial/css-grid-vs-flexbox#:~:text=Flexbox%20and%20Grid%20are%20two,easy%20to%20manage%20and%20maintain>.

<https://medium.com/@ThiliniWathsala/significance-of-box-model-in-html-and-css-f24c10e67f86#:~:text=The%20Box%20Model%20is%20a,other%20elements%20on%20the%20page.>