

## Reflection

For homework 6b, the most challenging part is just familiarizing myself with javascript. The syntax and format of javascript is different from html/css, as well as python(which is what I previously knew), so it took a bit of a learning curve.

One specific problem/bug that gave me a really hard time was that when I tried to remove an item from my shopping cart, the page doesn't refresh automatically. Instead, I need to manually refresh the page inorder for the shopping cart display to update. The Problem wasn't with local storage, because I tried using console.log() when debugging and the cartItem array does correctly get updated every time I remove an object. To solve this problem, I used something I learnt from google: location.reload(). I added this function to my removeItem() function which makes the page display refresh every time the remove button is clicked.

## Programming concepts

### 1. localStorage

This is my first time learning to use local storage, I can definitely see how it's useful to make the user experience more smooth and intuitive.

### 2. Console.log()

From this homework, I really got to learn the benefit of using console.log. This is a great way to check whether a specific line of code is working to my expectation. It's a very powerful debugging tool.

### 3. <script defer src="">

Script defer is something new I learnt while working on my website. It specifies that the script is downloaded in parallel to parsing the page, and executed after the page has finished parsing. When I wasn't using this, some of my document.getElementById() command always returns Null instead of a valid element. Adding the defer attribute to the javascript will help prevent this error.

### 4. Customized function

For homework 6b, we added many interaction for our web page with customized function. For example, I created a calculateTotalPrice function to help update the shopping cart subTotal. With the javascript functions, it provides more flexibility and functionality to our webpage compared to homework\_6a when I was only using HTML interaction such as hover, onclick.

### 5. Transition Animation

For my product detail page, I added transition animation for when the user hover over the glazing/quantity option. Although it's only a 0.2s transition, it makes a huge difference because it makes the interaction feel more smooth and advanced. In future projects, I will definitely think about how to use more animation to help improve the interaction.