

# Lab1

The screenshot shows the Visual Studio Code interface with the following details:

- Marketplace Sidebar:** The sidebar on the left displays the "EXTENSIONS: MARKETPLACE" section, specifically the results for "sass". The top result is the "Live Sass Compiler" by Glenn Marks, which has a rating of 4.5 stars and over 2,400 reviews.
- Extension Details View:** The main view shows the "Live Sass Compiler" extension page. It includes a large purple eye icon, the developer's name (Glenn Marks), the extension's version (6.1.4), and its GitHub repository link (<https://github.com/glenm223/live-sass>). It also shows the number of downloads (6.8M) and the license (MIT).
- Extension Settings:** The right-hand sidebar shows the configuration for the "Live Sass Compiler" extension. It includes sections for "Marketplace", "Categories", "Resources", and "Project links".
- Code Editor:** The main code editor area contains an HTML file named "index.html" and a CSS file named "main.css". The "index.html" file includes a basic header and a section with two cards. The "main.css" file contains some initial styles.
- Output Panel:** The bottom panel shows the "OUTPUT" tab, which displays the results of running the "Live Sass Compile" command. It shows a warning about a deprecated color function and the generated files.

week3\_lab1

```

# main.css > .button-submit, .button-report, .button-basic {
  1   display: inline-block;
  2   padding: 0.5rem 1rem;
  3   border: none;
  4   border-radius: 6px;
  5   cursor: pointer;
  6   font-weight: bold;
  7   text-decoration: none;
  8 }
  9 }

10 body {
11   font-family: Arial, sans-serif;
12   background: #f7fafc;
13   padding: 2rem;
14 }

15 h1 {
16   color: #2b6cb0;
17 }

18 .cards {
19   display: flex;
20   gap: 1rem;
21   margin-bottom: 2rem;
22 }

23 .card-1 {
24   padding: 1rem;
25 }

26 .card-2 {
27   padding: 1rem;
28 }

```

PROBLEMS OUTPUT ... Filter Live Sass Compile

More info: <https://sass-lang.com/d/color-functions>

74 | background: darken(\$primary, 8%);  
| ^.....^  
|  
file:///Users/uyen.hdt/Desktop/week3\_lab1/main.scss:74:14  
THIS IS DEPRECATED AND WILL BE REMOVED IN SASS 2.0

Generated:  
/Users/uyen.hdt/Desktop/week3\_lab1/main.css.map  
/Users/uyen.hdt/Desktop/week3\_lab1/main.css

Watching...

week3\_lab1

```

# main.css > ...
1 $primary: #2b6cb0;
2 $secondary: #c3date;
3 $danger: #e533e3;
4 $radius: 10px;
5
6 @mixin card($padding: 1rem, $shadow: 0 2px 6px rgba(0,0,0,0.15)) {
7   padding: $padding;
8   border-radius: $radius;
9   box-shadow: $shadow;
10  background: #white;
11  text-align: center;
12 }
13
14 %btn-base {
15   display: inline-block;
16   padding: 0.5rem 1rem;
17   border: none;
18   border-radius: 6px;
19   cursor: pointer;
20   font-weight: bold;
21   text-decoration: none;
22 }
23
24 body {
25   font-family: Arial, sans-serif;
26   background: #f7fafc;
27   padding: 2rem;
28 }

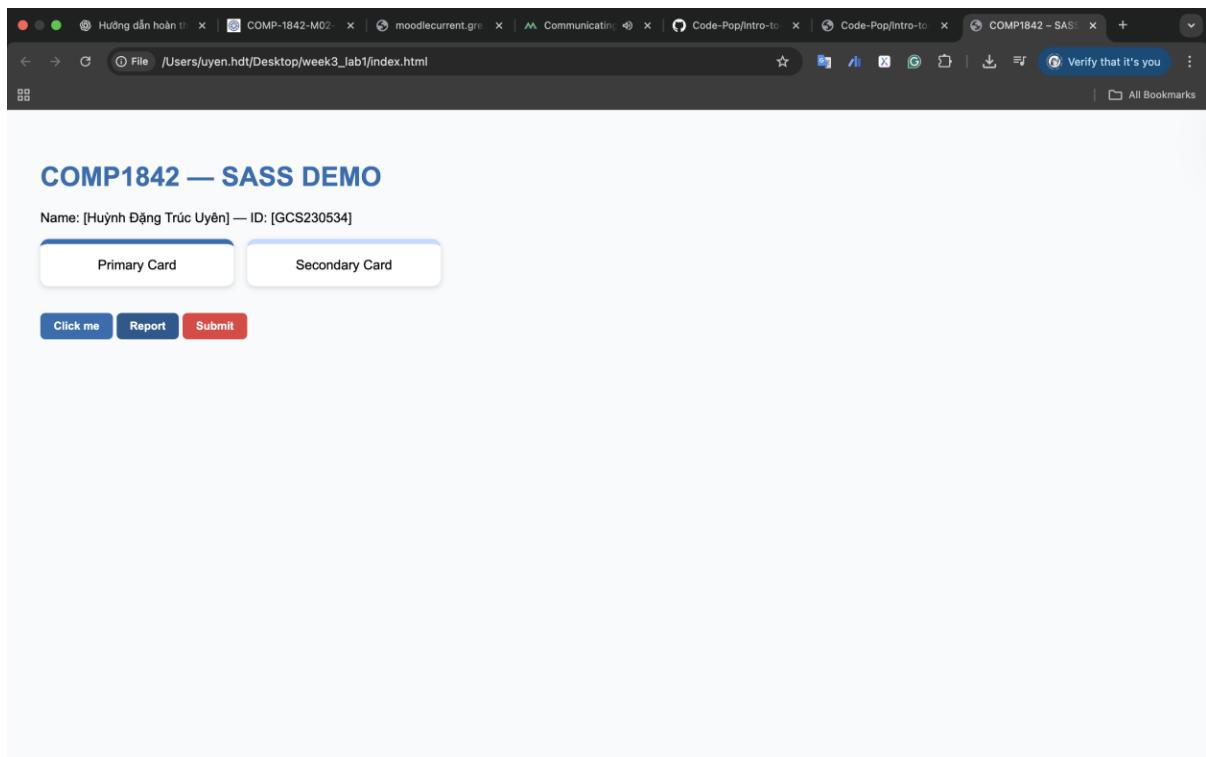
```

PROBLEMS OUTPUT ... Filter Live Sass Compile

59 | background: darken(\$primary, 8%);  
| ^.....^  
|  
file:///Users/uyen.hdt/Desktop/week3\_lab1/main.scss:59:14  
THIS IS DEPRECATED AND WILL BE REMOVED IN SASS 2.0

Generated:  
/Users/uyen.hdt/Desktop/week3\_lab1/main.css.map  
/Users/uyen.hdt/Desktop/week3\_lab1/main.css

Watching...



# Lab2

## Lesson 8

The screenshot shows a web browser window with multiple tabs open at the top. The active tab displays a product page for 'Vue Mastery Socks'. The page has a green header bar. Below it, there's a large image of two dark blue socks with a white circular logo featuring a mountain range. To the right of the image, the product name 'Vue Mastery Socks' is displayed in bold black font. Below the name, a message says 'Out of Stock'. Underneath that, the material composition is listed as '50% cotton', '30% wool', and '20% polyester'. Further down, there are two colored circles, one green and one blue, likely representing different color options. At the bottom right of the product area is a grey 'Add to Cart' button. In the top right corner of the browser window, there's a 'Cart(0)' button.

Screenshot of a browser developer tools window showing the Vue Mastery Socks product page. The page displays a green header, a main content area with a title 'Vue Mastery Socks' and a 'Cart(0)' button, and a message 'Out of Stock'. Below this, there is a list of materials: '50% cotton', '30% wool', and '20% polyester'. Two small circular images (green and blue) are shown, followed by an 'Add to Cart' button. The browser's right-hand sidebar shows the DOM structure, styles, and a console with development messages.

```
<!DOCTYPE html>
<html lang="en"> <!-- scroll -->
<head> <!-- head -->
<body> == $0
  <div id="app" data-v-app> == </div>
    <!-- Import App -->
    <script src="/main.js?cacheTimestamp=1625000000000" type="text/javascript"></script>
</body>
```

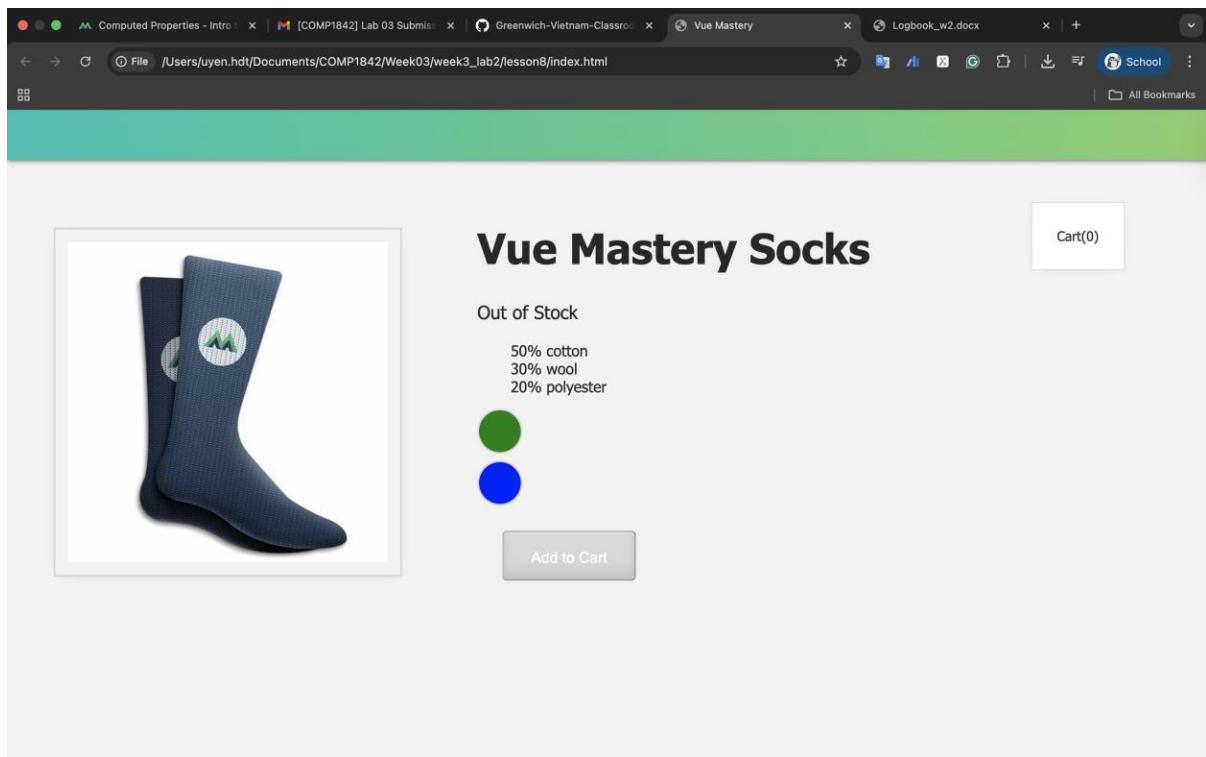
Console output:

```
You are running a development build of Vue.
Make sure to use the production build (*.prod.js) when deploying for production.

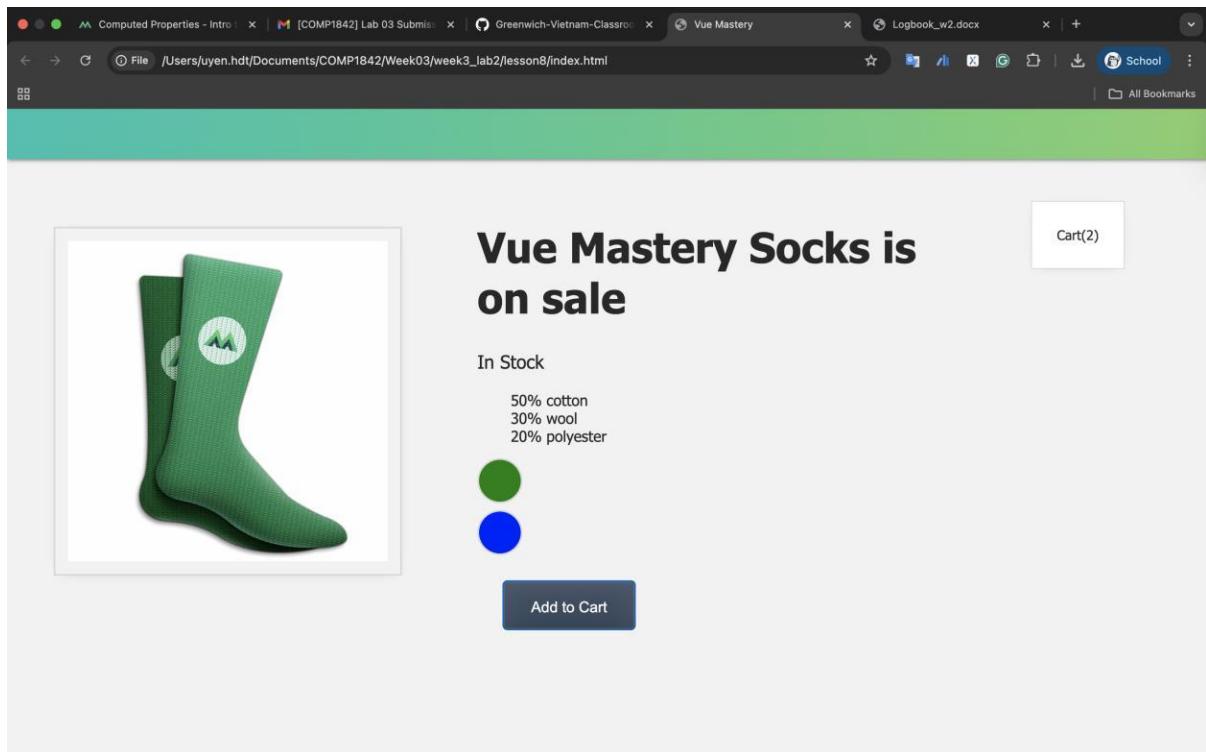
[Vue warn]: Property "image" vue.global.js:1287 was accessed during render but is not defined on instance.
at <App>

[Vue warn]: Property "inStock" was accessed during render but is not defined on instance.
at <App>
```

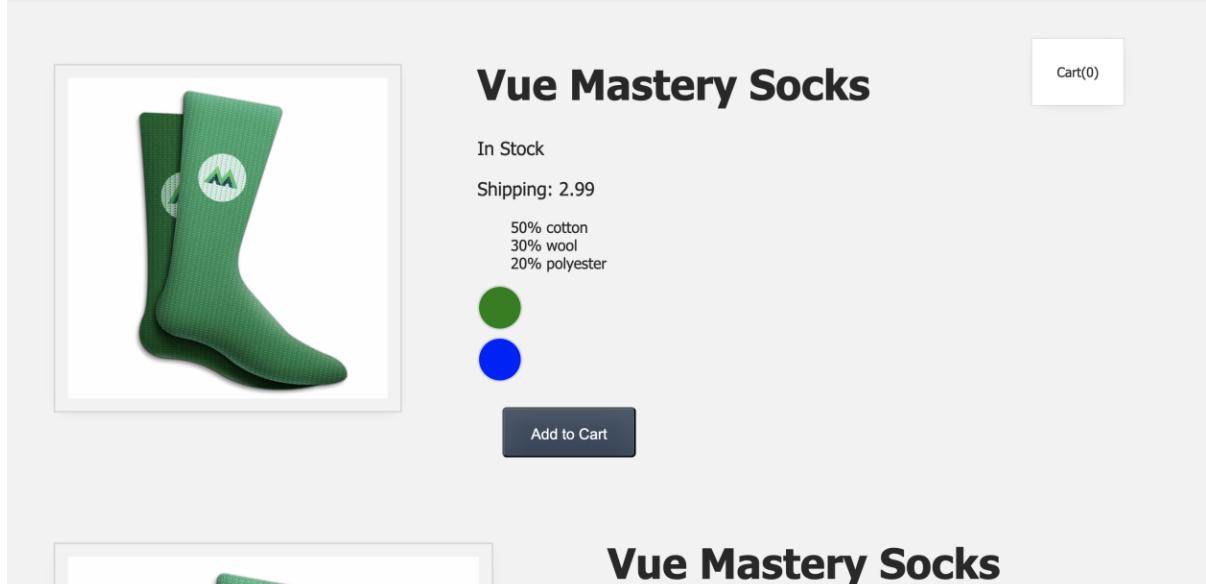
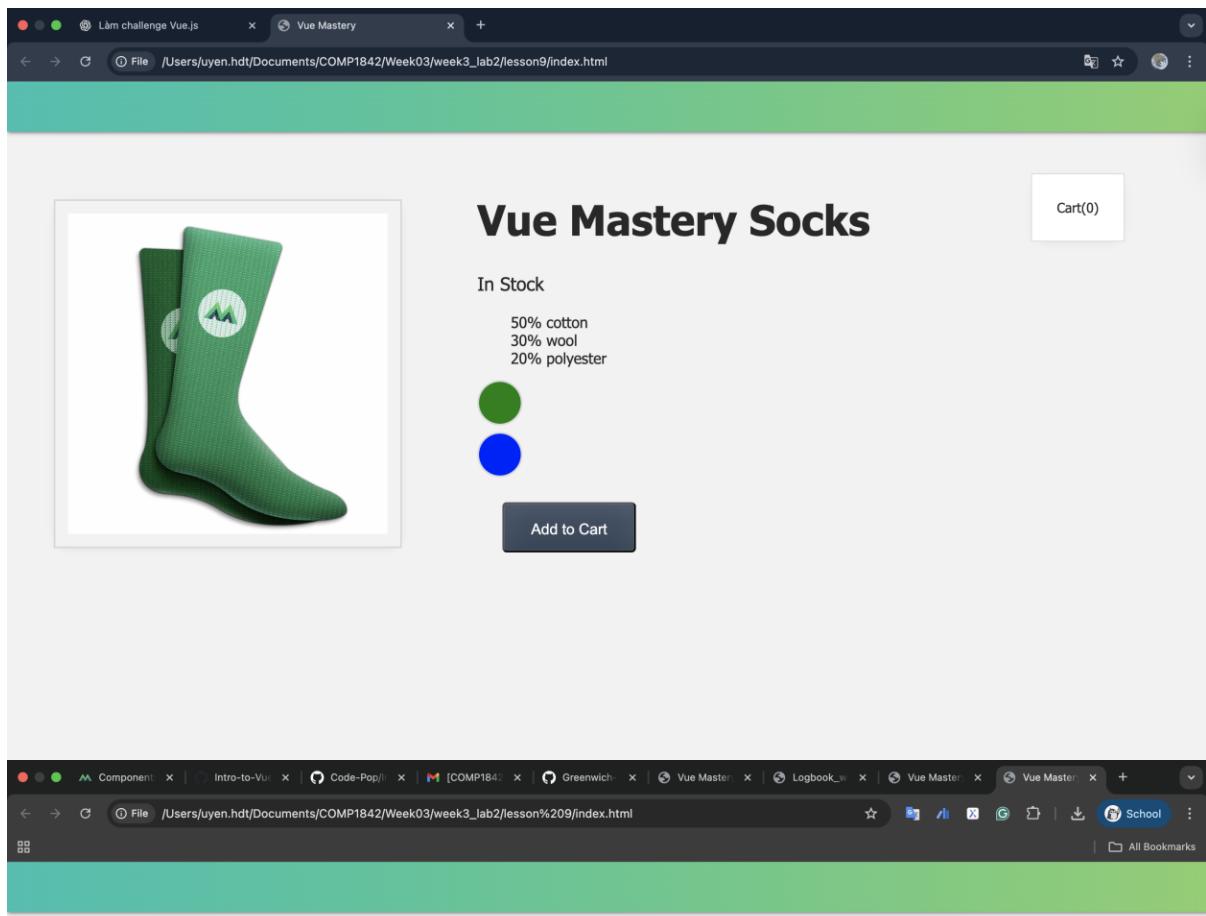
Screenshot of the same browser window after the product status has been updated to 'In Stock'. The 'Out of Stock' message is gone, and the 'Add to Cart' button has turned dark grey. The rest of the page content remains the same, including the title, material list, and circular images.

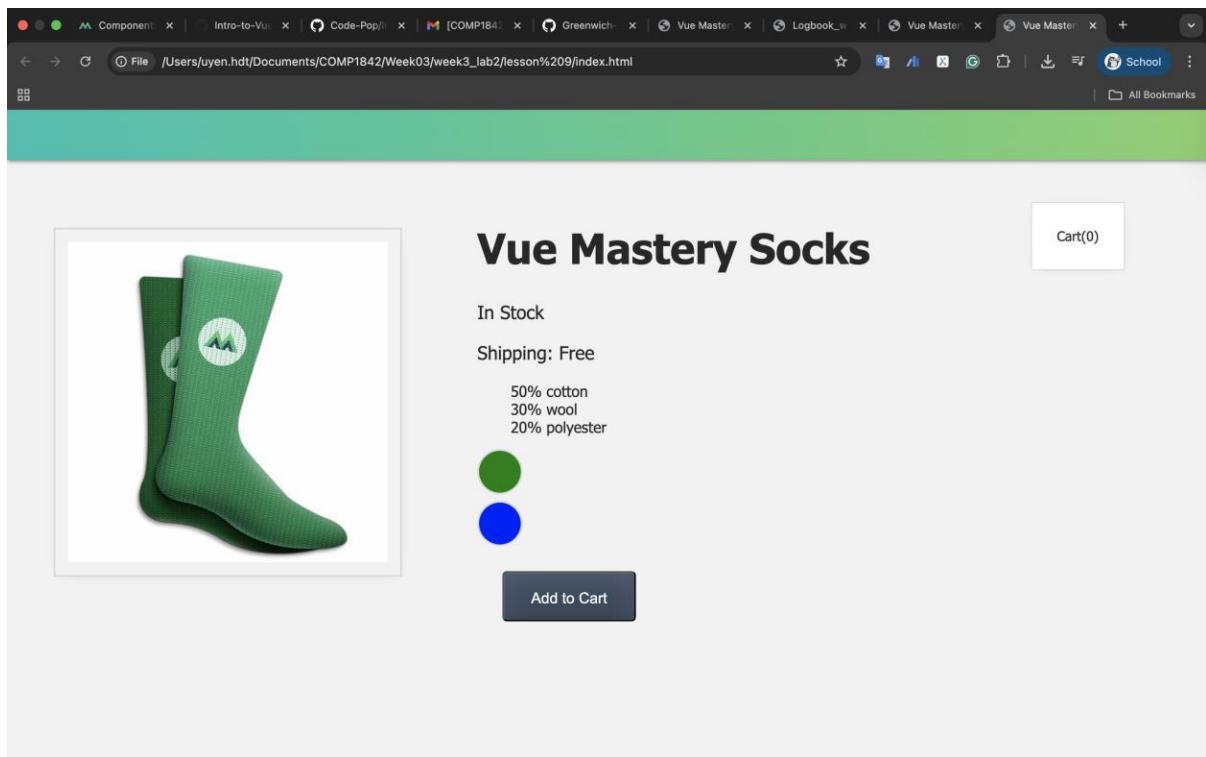


## Challenge

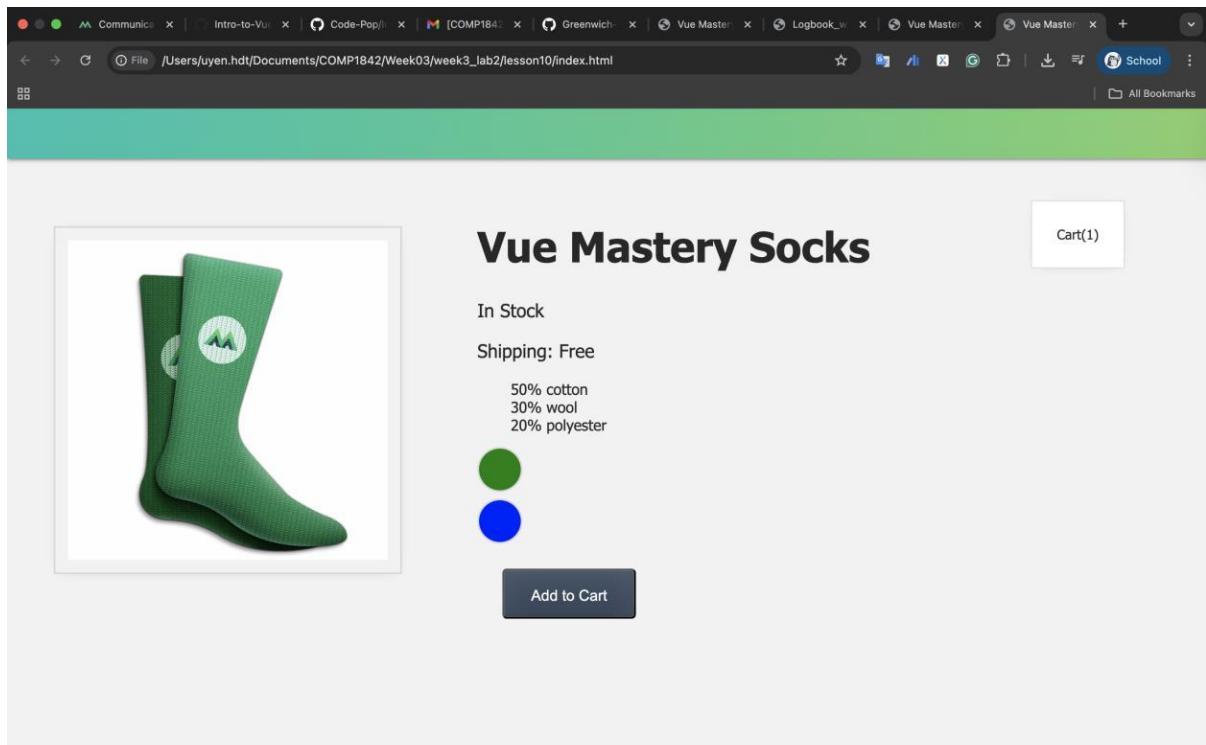


## Lesson 9



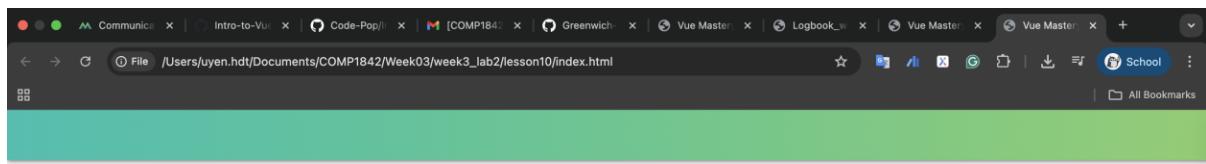


## Lesson 10



A screenshot of a web browser window displaying a product page. The title of the page is "Vue Mastery Socks". On the left, there is an image of two green socks with a white circular logo on the cuff. To the right of the image, the product name "Vue Mastery Socks" is displayed in a large, bold font. Below the name, the text "In Stock" and "Shipping: Free" is shown. Underneath that, the material composition is listed as "50% cotton", "30% wool", and "20% polyester". Below the composition details, there are two colored circles: a green one on top and a blue one below it. At the bottom right, there is a dark button labeled "Add to Cart". In the top right corner of the page, there is a small box containing the text "Cart([])". The browser's address bar shows the path "/Users/uyen.hdt/Documents/COMP1842/Week03/week3\_lab2/lesson10/index.html".

A screenshot of a web browser window displaying the same product page as the first one, but with a visible change in the cart count. The title "Vue Mastery Socks" and the product image are identical to the first screenshot. The product details ("In Stock", "Shipping: Free", material composition) are also the same. The color selection area with the green and blue circles is present. At the bottom right, the "Add to Cart" button is visible. In the top right corner, there is a small box containing the text "Cart([ 2234 ])". The browser's address bar shows the path "/Users/uyen.hdt/Documents/COMP1842/Week03/week3\_lab2/lesson10/index.html".



## Vue Mastery Socks

Cart([ 2234, 2234 ])

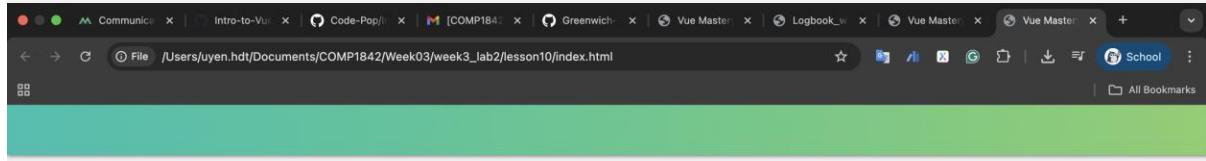
In Stock

Shipping: Free

50% cotton  
30% wool  
20% polyester



Add to Cart



## Vue Mastery Socks

Cart(4)

In Stock

Shipping: Free

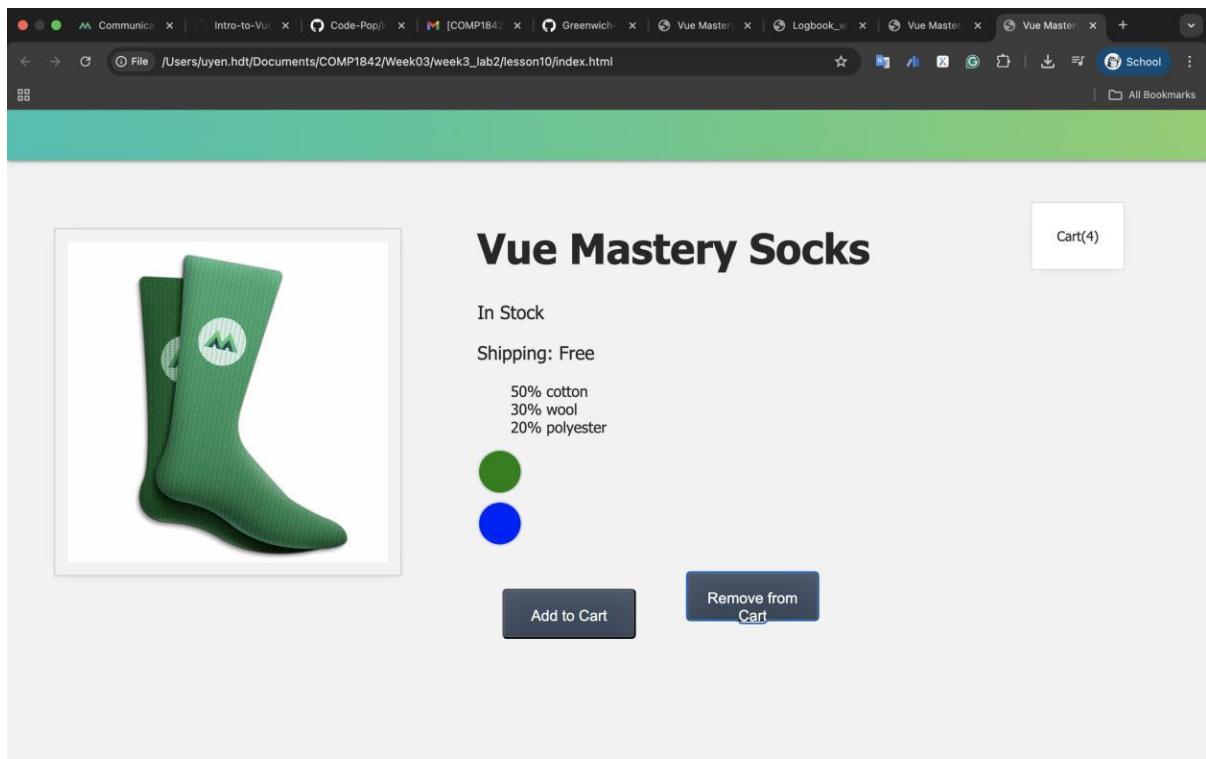
50% cotton  
30% wool  
20% polyester



Add to Cart

A screenshot of a web browser window showing a product page. The title of the page is "Vue Mastery Socks". On the left, there is an image of two dark blue socks with a white circular logo on the toe featuring a stylized mountain range. To the right of the image, the text "Out of Stock" is displayed. Below it, "Shipping: Free" is shown. Underneath that, the material composition is listed as "50% cotton", "30% wool", and "20% polyester". Further down are two colored circles, one green and one blue, likely representing different sizes or variants. At the bottom right is a grey "Add to Cart" button. In the top right corner of the page area, there is a small box labeled "Cart(4)". The browser's address bar shows the file path: "/Users/uyen.hdt/Documents/COMP1842/Week03/week3\_lab2/lesson10/index.html".

A screenshot of a web browser window showing a product page for "Vue Mastery Socks". The title is "Vue Mastery Socks". On the left, there is an image of two green socks with a white circular logo on the toe featuring a stylized mountain range. To the right of the image, the text "In Stock" is displayed. Below it, "Shipping: Free" is shown. Underneath that, the material composition is listed as "50% cotton", "30% wool", and "20% polyester". Further down are two colored circles, one green and one blue. At the bottom right are two buttons: a blue "Add to Cart" button and a grey "Remove from Cart" button. In the top right corner of the page area, there is a small box labeled "Cart(5)". The browser's address bar shows the file path: "/Users/uyen.hdt/Documents/COMP1842/Week03/week3\_lab2/lesson10/index.html".



#### Annotation – What I learned about:

During Week 3, I gained insights into how the scalability of Vue.js is achieved through computed properties, reusable components, as well as custom events. In Lesson 8, the topic was centered on computed properties, their capabilities, as well as their use in dynamic value rendering, depending on the application's current state. In this case, the value of the 'title' property will change depending on whether the product is on sale, as well as the image being displayed depending on the different variants.

Lesson 9 taught me about reusable components. I was able to create a different component for product details, then passed information into that component via props. This was important because this is exactly how I would be able to break down a large application into manageable pieces. I was also able to set up a calculated shipping cost that would depend on whether the customer was a premium member. I also learned that props allow the parent component to deliver information down through the application.

In Lesson 10, I gained knowledge about how child components communicate with their parent component through custom events. Rather than manipulating the cart within the component, the addToCart and removeFromCart functions now call the \$emit() function, allowing the parent component to manipulate the cart array. This helped in creating a more flexible and realistic application. By taking this series of courses, I was better able to comprehend how data flow occurs within a component-based system.

