



## Final Project Write-up

### Part 1.

My project, "Carbon Foodprint" is a simple game to teach younger audiences to learn more about carbon footprint in the food they consume, which often goes overlooked. Within the website, there is an interactive game that allows players to browse through food items and select them to get a score of their meal in terms of carbon emission. To elaborate more on the emission of each item, I created an food index page where users can learn descriptions about each item as well. Finally, there is an info page about the entire project, describing the problem space and the scoring system implemented. The simple illustration style and the intuitive layout of the game where users place food items onto a plate, makes the game aspect more creative and easy to engage in. The game is structured with 3 course meal, appetizer, main, and dessert. It's quite interesting because the player the results they see are dependent on what items they choose to place on their digital plate, bringing in a more dynamic gaming experience. Although the intended audience are older children ~ young adults, I believe this game can serve as the first touchpoint for adults to raise awareness on this topic.

### Part 2.

- Click on menu buttons to switch between different food category tabs
- Click on next button to proceed to the next step (e.g. results, next meal)
- Nav bar to jump between game, index, and info.
- Click feature on each menu item that places food illustration onto a plate. This updates the score bar of user's meal course. Clicking again removes the item.
- Restart button to delete all items on the plate.
- Click on food index grid to see detailed information about each food item available.

### Part 3.

- I used jquery as my Javascript library for this project.
- I already had the graphic assets i wanted to implement, and needed a library to help me implement a dynamic site structure that can be constantly updated. The methods available on jquery such as click, hover, etc., really streamlined the developing process.
- It adds a fast, dynamic element, updating scores placing, removing images just by one click. I think it really helped me make use of the DOM well.

**Final Project Write-up****Part 4.**

Most of the prototyping sessions were completed in Figma. Stemming out from the basic plate and menu inventory structure, I determined the placing for nav bars and menus, as well as next buttons. This reminded me a lot of the design patterns that were covered in lecture. Because I had a somewhat set layout in mind, I had to use abstraction of common “next” buttons and menu bars to locate them in a still somewhat familiar location. One of the crucial feedback received from user testing involved using more white backgrounds underneath colored objects to avoid collision with the grid pattern, and to add more intuition by updating the color of the score bar as it reaches higher. The final rounds of prototyping included finessing the colors, positions, and fonts.

**Part 5.**

Most of the challenges came from growing familiar to jquery, updating the data structure to be optimal. I used the same dataset for multiple features across pages, so I needed to make sure that it was a structure that I can extract specific elements from, which took some time to implement.

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## Appendix – WAVE Accessibility Test

The following apply to the entire page:

Carbon FoodPrint Logo

Styles: OFF ON

Summary

Category	Count
Errors	0
Contrast Errors	0
Alerts	2
Features	3
Structural Elements	1
ARIA	0

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

`<html lang="en">  
 <head>  
 <meta charset="UTF-8">  
 <link rel="stylesheet" type="text/css" href="FP/css/style.css">  
 <link rel="stylesheet" type="text/css" href="css/cover.css">  
 <title>  
 Carbon Footprint  
 </title>  
 </head>  
<body>`

The following apply to the entire page:

Carbon FoodPrint Logo

Styles: OFF ON

Details

2 Alerts

- 1 X No heading structure
- 1 X No page regions

3 Features

- 1 X Alternative text
- 1 X Linked image with alternative text
- 1 X Language

1 Structural Elements

- 1 X Unordered list

If an icon does not appear within the page, turn off Styles above to view it.

`<html lang="en">  
 <head>  
 <meta charset="UTF-8">  
 <link rel="stylesheet" type="text/css" href="FP/css/style.css">  
 <link rel="stylesheet" type="text/css" href="css/cover.css">  
 <title>  
 Carbon Footprint  
 </title>  
 </head>  
<body>`

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## Appendix – WAVE Accessibility Test

The following apply to the entire page:

**Summary**

Styles: OFF ON

Address: <https://christyzo.github.io/pui-fp/FP/html/inc>

Summary Details Reference Order Structure Contrast

Errors: 0 Contrast Errors: 0

Alerts: 7 Features: 5

Structural Elements: 1 ARIA: 0

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

View details

The following apply to the entire page:

**play index info**

**Code**

```
<html lang="en">
<head>
<base href="https://christyzo.github.io/pui-fp/FP/html/index.html?course=appetizer">
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<meta http-equiv="X-UA-Compatible" content="ie=edge">
<link rel="stylesheet" type="text/css" href="..css/style.css">
<title>
Static Template
</title>
```

The following apply to the entire page:

**play index info**

**Code**

```
<html lang="en">
<head>
<base href="https://christyzo.github.io/pui-fp/FP/html/index.html?course=appetizer">
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<meta http-equiv="X-UA-Compatible" content="ie=edge">
<link rel="stylesheet" type="text/css" href="..css/style.css">
<title>
Static Template
</title>
```

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### Appendix – WAVE Accessibility Test

The following apply to the entire page:

play index info

WAVE web accessibility evaluation tool

powered by WebAIM

Address: <https://christyzo.github.io/pui-fp/FP/html/fox>

Styles: OFF ON

Summary

Errors: 0 Contrast Errors: 0

Alerts: 2 Features: 33

Structural Elements: 1 ARIA: 0

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

**CARBON FOOD-PRINT**

```
<html lang="en">
<head>
<base href="https://christyzo.github.io/pui-fp/FP/html/food-index.html">
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<meta http-equiv="X-UA-Compatible" content="ie=edge">
<link rel="stylesheet" type="text/css" href="../css/style.css">
<script src="../js/jquery-3.6.1.min.js"></script>
<script src="../js/itemData.js"></script>
<script src="../js/food-index-app.js"></script>
```

The following apply to the entire page:

play index info

WAVE web accessibility evaluation tool

powered by WebAIM

Address: <https://christyzo.github.io/pui-fp/FP/html/food-index.html>

Styles: OFF ON

Details

2 Alerts

- 1 X No heading structure
- 1 X No page regions

33 Features

- 31 Alternative text
- 1 Linked image with alternative text
- 1 Language

1 Structural Elements

- 1 X Unordered list

If an icon does not appear within the page, turn off Styles above to view it.

**CARBON FOOD-PRINT**

```
<html lang="en">
<head>
<base href="https://christyzo.github.io/pui-fp/FP/html/food-index.html">
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<meta http-equiv="X-UA-Compatible" content="ie=edge">
<link rel="stylesheet" type="text/css" href="../css/style.css">
<script src="../js/jquery-3.6.1.min.js"></script>
<script src="../js/itemData.js"></script>
<script src="../js/food-index-app.js"></script>
```

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## Appendix – WAVE Accessibility Test

The following apply to the entire page:

[Home](#) [Pen](#) [Print](#) [HTML](#)

**play index info**

**Summary**

Styles: OFF ON

Address: <https://christyzo.github.io/pui-fp/FP/html/info.html>

Errors: 0 Contrast Errors: 0

Alerts: 2 Features: 3

Structural Elements: 5 ARIA: 0

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

**Code**

```
<html lang="en">
<head>
<base href="https://christyzo.github.io/pui-fp/FP/html/info.html">
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<meta http-equiv="X-UA-Compatible" content="ie=edge">
<link rel="stylesheet" type="text/css" href="../css/style.css">
<title>
Static Template
</title>
```

The following apply to the entire page:

[Home](#) [Pen](#) [Print](#) [HTML](#)

**play index info**

**Details**

Styles: OFF ON

Address: <https://christyzo.github.io/pui-fp/FP/html/info.html>

**Alerts**

- 1 X No page regions
- 1 X Missing first level heading

**Features**

- 1 X Alternative text
- 1 X Linked image with alternative text
- 1 X Language

**Structural Elements**

- 4 X Heading level 2
- 1 X Unordered list

If an icon does not appear within the page, turn off Styles above to view it.

**Code**

```
<html lang="en">
<head>
<base href="https://christyzo.github.io/pui-fp/FP/html/info.html">
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<meta http-equiv="X-UA-Compatible" content="ie=edge">
<link rel="stylesheet" type="text/css" href="../css/style.css">
<title>
Static Template
</title>
```