

## Week 5 Tutorial

This tutorial includes Exercise5+Lab5. This tutorial is part of your assessment task 1. Please submit your completed work in ZIP format onto moodle.

Note: Submit your ZIP file in your respective lecturer's tutorial submission link for marking and feedback.

### Exercise 5: Styling for Responsive Design

*Instructions:* In this exercise, you will use your text editor to apply responsive design principles to an existing webpage. You will make all images flexible, change the layout to a fluid layout, and add a viewport meta tag. The completed webpage is shown in Figure 5.1. You will also use professional web development practices to indent, space, comment, and validate your code.

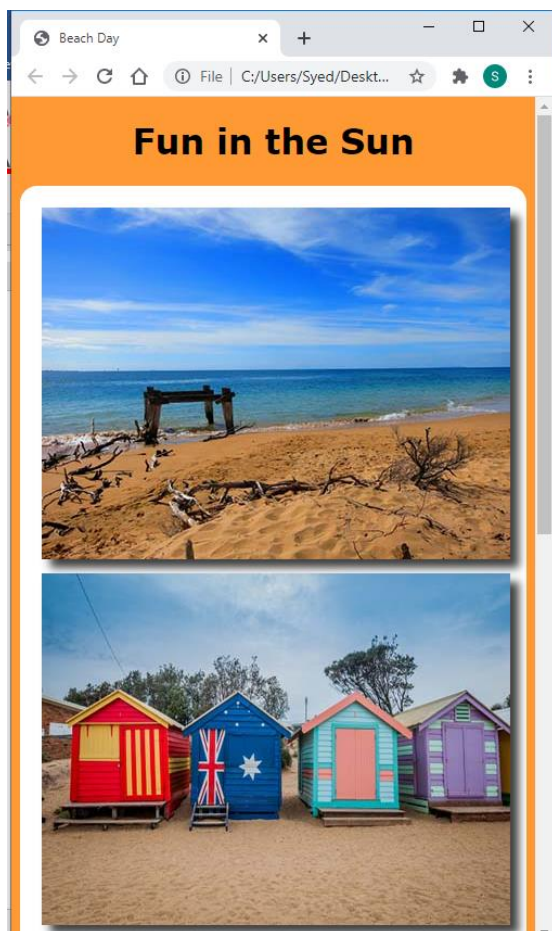


Figure 5.1

Perform the following tasks:

1. Open **apply05.html** in your browser to view the webpage. You can find this file in Week5 Tutorial Material folder in moodle. Adjust the browser window to view the fixed layout.
2. Open apply05.html in your text editor and modify the comment at the top of the page to include your name and today's date.
3. Remove the width and height attributes from the image elements and save your changes.
4. Open the **styles05.css** file from the week5 tutorial folder in moodle. Modify the comment at the top of the styles05.css page to include your name and today's date.
5. In the styles05.css file, add a max-width property with a value of 100% to the img selector.

6. Locate the #container selector and change the width value to use a relative measurement and take up the full width of the page.
7. Save the styles05.css file and refresh the apply05.html file in your browser. Resize the browser to make sure that a fluid layout has been applied and that the images are flexible.
8. In apply05.html, add the following meta tag within the head section of the document:  
`<meta name="viewport" content="width=device-width, initial-scale=1">`
9. Save your changes to apply05.html and open the file in Google Chrome.
10. Use the developer tools in Google Chrome to view the page in an emulator.
11. Select a device and refresh the page. The page should look similar to Figure 5.1.
12. Validate your HTML document using the W3C validator found at [validator.w3.org](http://validator.w3.org) and fix any errors that are identified.
13. Validate your CSS file using the W3C validator found at <http://jigsaw.w3.org/css-validator/> and fix any errors that are identified.
14. Submit the apply05.html, styles05.css and images files in a format specified by your lecturer.

## Week5 Lab: Creating a Mobile Design for the New Harvest Food Bank

Problem: You volunteer at a local food bank called Montana Food Bank that collects community food donations and provides food and other services to those in need. The organization has asked you to create a responsive website. With a growing mobile market, you decide to implement a mobile-first strategy. Style the webpage shown in Figure 5.2 with an external style sheet.

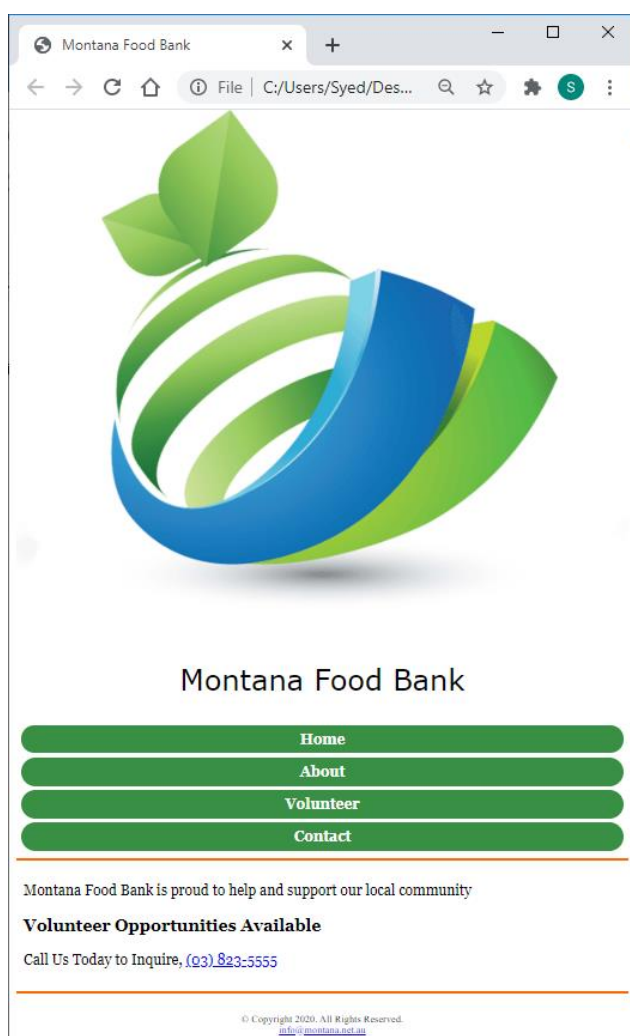


Figure 5.2