

# CMPS 350 Web Development Fundamentals

## Lab 3 – CSS Fundamentals

### Objective

By the end of the Lab, you should be able to:

- Add internal and external **CSS styles** to your HTML pages.
- Differentiate and use important CSS **selectors, properties and values**.
- Use colors and images to style your pages.
- Explain and use the box model to style **margins** and **padding**s
- Use the flexbox and media queries to develop responsive web page layouts and forms.

### Overview

This Lab has 2 parts:

- **In Part A**, you will use vanilla CSS to style elements on a web page.
- **In PART B**, you develop a complete website using the concepts that you practiced in part A

First, sync your **cmcs350s22/repository** using **GitHub Desktop** Client. Create a subfolder named “**Lab3-CSS Fundamentals**” inside the local working folder of your repository. You need to place your work in the **Lab3-CSS** folder. At the end of the Lab, complete the testing document, then sync your repo to push your work to GitHub.

### Part A – Basic CSS -Tutorial

1. Get the Lab3-CSS folder from the course GitHub repo and copy it to your private repository
2. Create a new project and name it CSS Basics
3. Inside the new project create styles.css file under a folder named “styles”. We will be using these files to practice the following concepts

- a. Linking style sheet to your HTML page (Internal Stylesheet, External Stylesheet, Cascading Order, Inline)

[https://www.w3schools.com/css/css\\_howto.asp](https://www.w3schools.com/css/css_howto.asp)

🕒Exercise: Complete the four exercises in the following link

[https://www.w3schools.com/css/exercise.asp?filename=exercise\\_howto1](https://www.w3schools.com/css/exercise.asp?filename=exercise_howto1)

- b. CSS-Syntax [selector {property : value}]  
[https://www.w3schools.com/css/css\\_syntax.asp](https://www.w3schools.com/css/css_syntax.asp) **🕒Exercise : Complete the four exercise in the following link**  
[https://www.w3schools.com/css/exercise.asp?filename=exercise\\_synta\\_x1](https://www.w3schools.com/css/exercise.asp?filename=exercise_synta_x1)
- c. Border, Margins, Padding and the box model  
[https://www.w3schools.com/css/css\\_border.asp](https://www.w3schools.com/css/css_border.asp)  
**🕒Exercise: Complete the four exercise in the following link**  
[https://www.w3schools.com/css/exercise.asp?filename=exercise\\_borde\\_r1](https://www.w3schools.com/css/exercise.asp?filename=exercise_borde_r1)
- d. Text styling [https://www.w3schools.com/css/css\\_text.asp](https://www.w3schools.com/css/css_text.asp)  
**🕒Exercise : Complete the four exercise in the following link**  
[https://www.w3schools.com/css/exercise.asp?filename=exercise\\_text1](https://www.w3schools.com/css/exercise.asp?filename=exercise_text1)
- e. Pseudo Classes [a: link, visited, hover, focus, active]  
[https://www.w3schools.com/css/css\\_pseudo\\_classes.asp](https://www.w3schools.com/css/css_pseudo_classes.asp)  
**🕒Exercise : Complete the four exercise in the following link**  
[https://www.w3schools.com/css/exercise.asp?filename=exercise\\_text1](https://www.w3schools.com/css/exercise.asp?filename=exercise_text1)
- f. Background [attachment, color, image, position, repeat]  
[https://www.w3schools.com/css/css\\_background.asp](https://www.w3schools.com/css/css_background.asp)  
**🕒Exercise : Complete the four exercise in the following link**  
[https://www.w3schools.com/css/exercise.asp?filename=exercise\\_backg\\_round1](https://www.w3schools.com/css/exercise.asp?filename=exercise_backg_round1)
- g. Media Queries – [Click here](#)
- 
- h. Font Awesome ->  
[https://www.w3schools.com/icons/fontawesome\\_icons\\_text.asp](https://www.w3schools.com/icons/fontawesome_icons_text.asp)
- i. Flex-Box <https://css-tricks.com/snippets/css/a-guide-to-flexbox/> Play this game -> <https://flexboxfroggy.com>

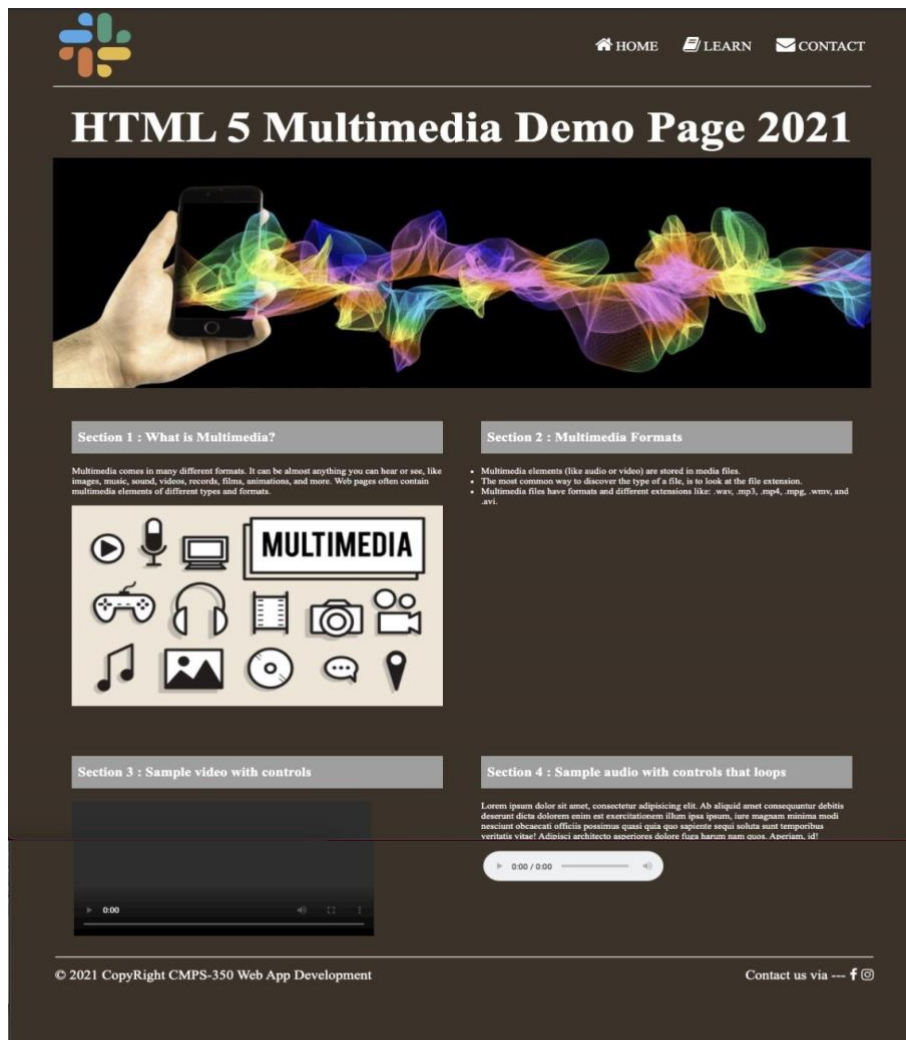
You can use the following links to further practice

- <https://www.w3schools.com/css/default.asp>
- <https://htmlcheatsheet.com/css/>

## Part B – Practice

You are given the HTML code for the below webpages

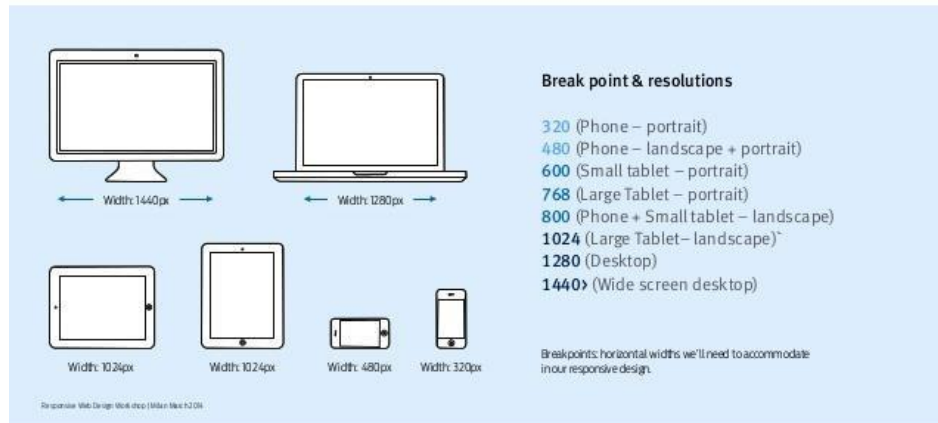
1. Open the **Lab3-CSS/Project-initial** folder using **Webstorm**.
2. The folder contains two files [**index.html**, **contact-us.html**]
3. Your task is to style both pages according to the images shown below.



4. Media queries help us detect different screen sizes as you have seen in Part A, exercise (g). In the following exercise, you will need to utilize media queries and make the webpage responsive.

Media Queries - @media screen and (max-width: 992px)

## Breakpoints & Media queries



## HTML 5 Multimedia Demo Page 2021



### Section 1 : What is Multimedia?

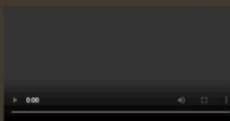
Multimedia comes in many different formats. It can be almost anything you can hear or see, like images, music, sound, videos, records, films, animations, and more. Web pages often contain multimedia elements of different types and formats.



### Section 2 : Multimedia Formats

- Multimedia elements (like audio or video) are stored in media files.
- The most common way to discover the type of a file, is to look at the file extension.
- Multimedia files have formats and different extensions like: .wav, .mp3, .mp4, .ogg, .wmv, and .avi.

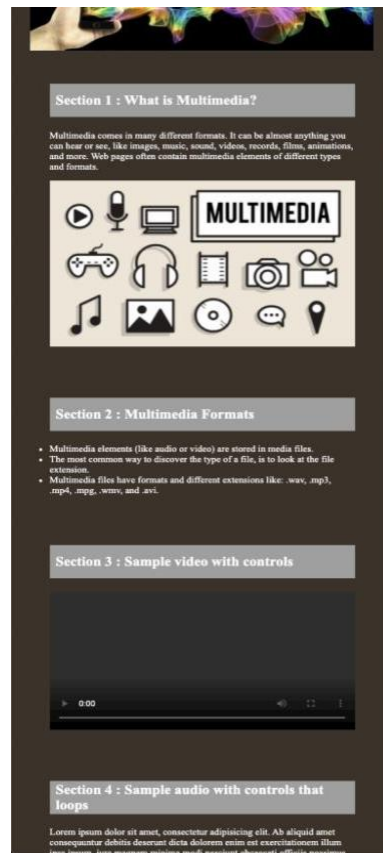
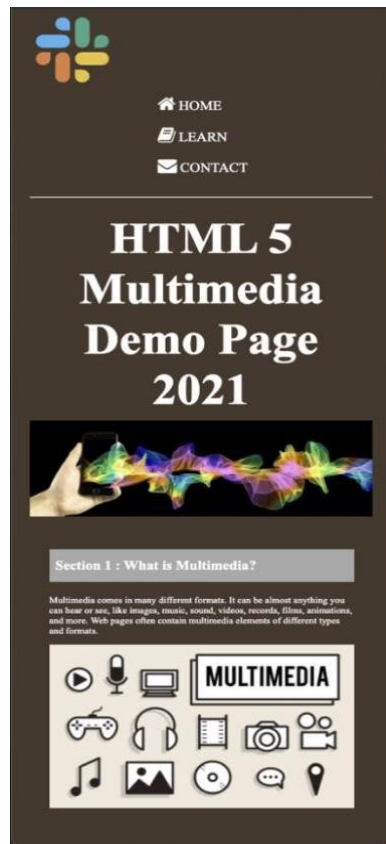
### Section 3 : Sample video with controls



### Section 4 : Sample audio with controls that loops

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aliquam erat volutpat. Donec id elit ut mi Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aliquam erat volutpat. Donec id elit ut mi Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aliquam erat volutpat. Donec id elit ut mi





5. Style the **contact-us** form as follows. You should create a separate stylesheet for the contact us form.

## Contact Us

We will do out best to get back to you as soon as we can

Fill this form

**FULL NAME**

**PHONE NUMBER**

**EMAIL**

**GENDER:** MALE ☒ FEMALE ☐

**DATE OF BIRTH**

**PREFERRED METHOD OF CONTACT:** PHONE ☒ EMAIL ☐

**HOW DO YOU RATE OUR WEBSITE?**

**MESSAGE**