

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 colours and images to style your pages.
- ✓ Explain and use the box model to style **margins** and **padding**s
- ✓ Use the grid layout and media queries and develop responsive web page layouts and forms.

Overview

This lab has 4 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 **cmcs350s21/repository** using **GitHub Desktop** Client. Create a subfolder named **“Lab3-CSS”** inside the local working folder of your repository. You need to place your work in **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. Open the **Lab3-CSS/Project** folder using **Webstorm**.
3. The folder contains a two files [**index.html,contact-us.html**]
4. Create styles.css file under a folder named “styles” inside Lab3-CSS folder. 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

➔ **Exercise : Complete the four exercise in the following link**

https://www.w3schools.com/css/exercise.asp?filename=exercise_howto1

- b. CSS-Syntax [selector {Property : value}]

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

- c. Border, Margins , Padding and the box model
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

- d. Text styling 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

- e. Pseudo Classes [a: link , visited , hover , focus , active]
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

- f. Background [attachment , color , image , position , repeat]
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

- g. Media Quries https://www.w3schools.com/css/css_rwd_mediaqueries.asp



- h. Flex-Box <https://css-tricks.com/snippets/css/a-guide-to-flexbox/> Play this game -
> <https://flexboxfroggy.com>
- i. Font Awesome ->
https://www.w3schools.com/icons/fontawesome_icons_text.asp


You can use the following links to further practice

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

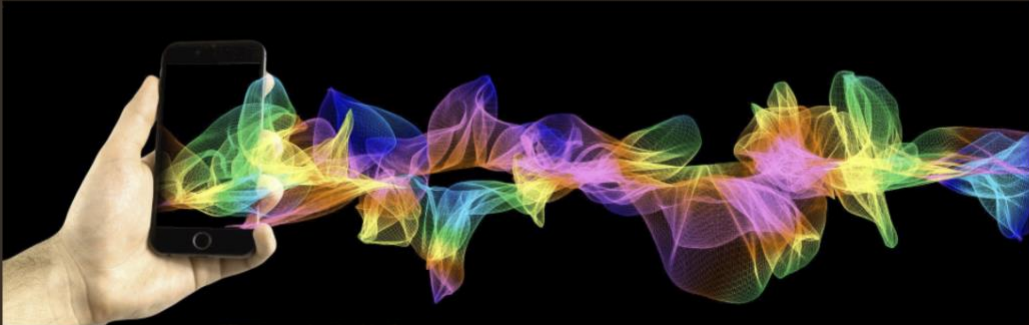
→ <https://htmlcheatsheet.com/css/>

Part B – Practice

You will be given the HTML code for the below webpages. Your task is to style according to the figures shown below.


HOME LEARN CONTACT

HTML 5 Multimedia Demo Page 2021



Section 1 : What is Multimedia?

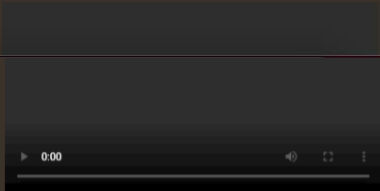
Multimedia comes in many different formats. It can be almost anything you can hear or see, like images, music, sound, videos, records, films, animations, and more. Web pages often contain multimedia elements of different types and formats.



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, .mpg, .wmv, and .avi.

Section 3 : Sample video with controls



Section 4 : Sample audio with controls that loops

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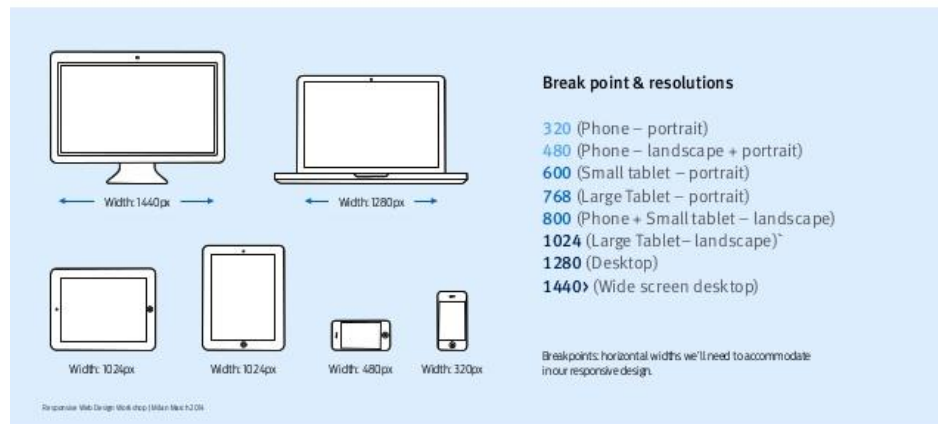
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Responsive web design using Media Queries

Media queries help us detect different screen sizes and allow us to adopt our layouts accordingly. In the following we will see how we can utilize them to make our website responsive.

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

Breakpoints & Media queries



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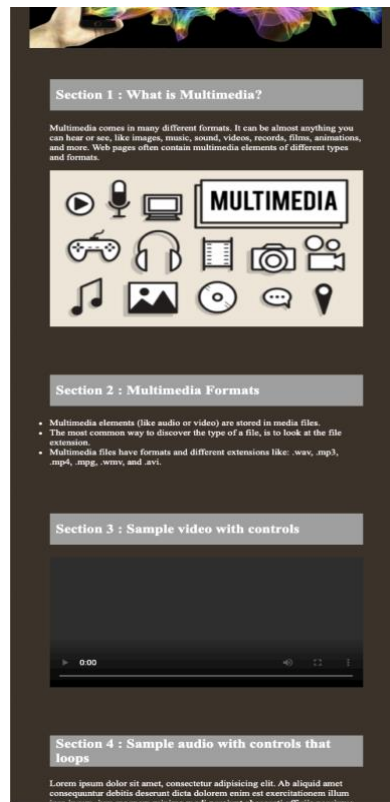
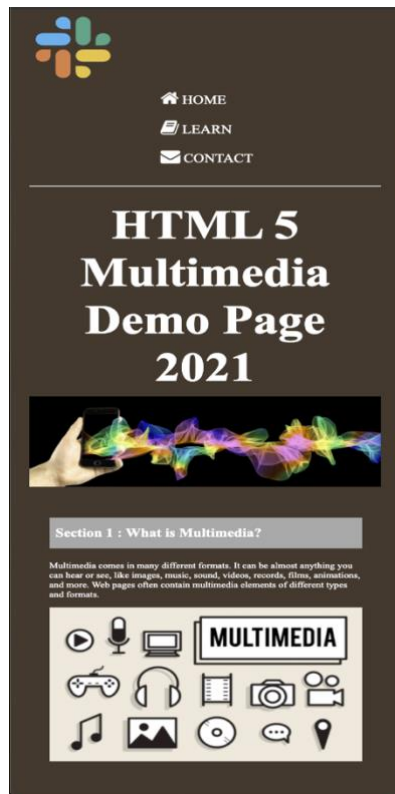
Section 3 : Sample video with controls

Section 4 : Sample audio with controls that loops

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Contact us via [f](#) [t](#)



➔Style the contact-us form as follows. You should create a separate sheet 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

SUBMIT

RESET