

# CMPS 350 Web Development Fundamentals

## Lab 3 – CSS Fundamentals

### Objective

The aim of this lab is to equip you with the skills to:

- Incorporate internal and external **CSS styles** into your HTML pages.
- Understand and apply various CSS selectors, properties, and values effectively.
- Enhance the appearance of a web page by applying font, color, and image styles.
- Use the box model for styling margins and padding.
- Develop responsive web page layouts using flexbox and media queries.

### Overview

This Lab has 2 parts:

- **In Part A**, focuses on practicing fundamental CSS selectors and declarations.
- **In Part B**, requires you to apply your CSS skills to style a college journey blog to achieve the desired layout and presentation.

First sync to CMPS 350 Lab repository using **GitHub Desktop** Client then copy Lab3-CSS folder to your GitHub **repository**. At the end of the Lab sync your repo to push your work to GitHub.

### Part A - CSS Basics Tutorial

1. Create a new project and named CSS Basics under YourRepo\Lab3-CSS
2. Within the new project, create a subfolder called "styles" and add a file named "styles.css". This file will be used to practice the following CSS features::

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

Complete the four exercises at 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}]

Complete the four exercises at the following link

[https://www.w3schools.com/css/exercise.asp?filename=exercise\\_selectors1](https://www.w3schools.com/css/exercise.asp?filename=exercise_selectors1)

- c. [Border, Margins, Padding and the box model](#)

Complete the four exercise at the following link

[https://www.w3schools.com/css/exercise.asp?filename=exercise\\_border1](https://www.w3schools.com/css/exercise.asp?filename=exercise_border1)

- d. [Text styling](#)

Complete the four exercise at 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]

Complete the four exercise at 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]

Complete the four exercise at 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)

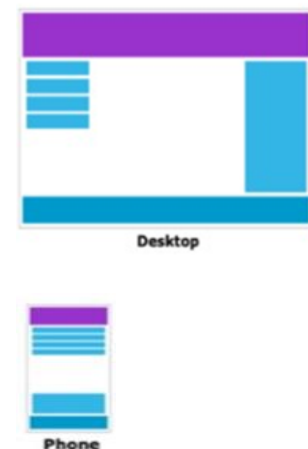
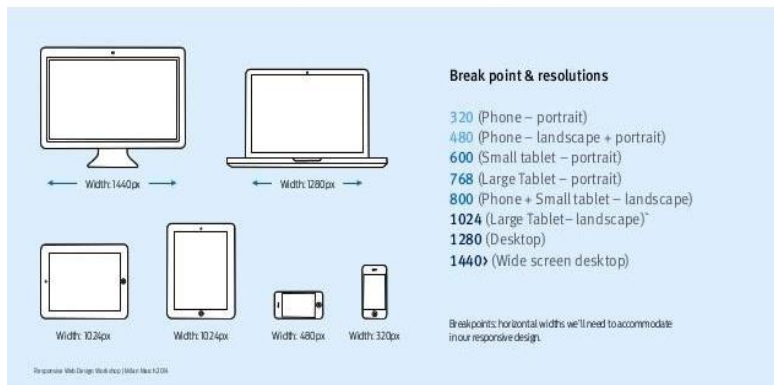
- g. Font Awesome [https://www.w3schools.com/icons/fontawesome\\_icons\\_text.asp](https://www.w3schools.com/icons/fontawesome_icons_text.asp)

- h. Flexbox <https://css-tricks.com/snippets/css/a-guide-to-flexbox/>

Play this game -> <https://flexboxfroggy.com>

- i. [Media Queries](#) : Open the [web.dev](#) website to understand what we mean by media queries

### Breakpoints & Media queries



You can use the following links to further practice


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

## Part B : Practice Exercise

In this section, you will enhance the My College Journey website you created in the previous labs by styling both the index and form HTML pages to match the desired layout and presentation. You can use your own code or utilize the provided code in Part B.


It's important to use Flexbox, the clamp unit, and other dynamic scaling units to ensure the website is responsive. To provide different layouts depending on the user's screen size, make use of media queries with the following breakpoints ( $\geq 60\text{rem}$  for large screens).

### SMALL SCREEN



[My Major](#)  
[Campus Involvement](#)  
[Internship Experience](#)  
[Study Abroad](#)  
[Future Plans](#)

#### Welcome to Zahra's College Journey at Qatar University



#### My Major

I am currently pursuing a degree in Computer Science at Qatar University. I chose this major because I have always been fascinated by technology and the potential it has to solve problems and make a positive impact on the world.




Fig 1. College of Engineering building at Qatar University

#### Campus Involvement

I am actively involved in a number of clubs and organizations at Qatar University. Some of the clubs I am a member of include the Computer Science Club, the Robotics Club, and the Gaming Club.

1. Computer Science Club
2. Robotics Club
3. Gaming Club

[Register here for QU Teams](#)

#### Internship Experience

I have had the opportunity to gain valuable work experience through a number of internships while in college at Qatar University. Some of the internships I have had include:

Internship	Company	Duration
Software Developer	Qatar IT Solutions	Summer 2020
Data Analyst	Qatar Data Systems	Fall 2021
Full Stack Developer	Qatar Tech Innovations	Spring 2022

#### Study Abroad

I had the opportunity to study abroad in Tokyo, Japan for a semester. It was an amazing experience that allowed me to learn about a different culture and improve my language skills.





Fig 2. Tokyo, Japan

#### Future Plans

After graduation, I plan to pursue a career in software development. I am particularly interested in working on projects related to artificial intelligence and machine learning.


[Resources](#)  
[Career Center](#)  
[Job Search](#)  
[Internship Match](#)

### LARGE SCREEN



[My Major](#) | [Campus Involvement](#) | [Internship Experience](#) | [Study Abroad](#) | [Future Plans](#)

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Style **the application** form as shown below. You should create a separate stylesheet for the application form.

SMALL SCREEN	LARGE SCREEN
<div><h3>Club Application Form</h3><p>To join one of our university clubs, please submit this application form and I will help you register</p><p><b>Personal Information:</b></p><p>First Name: <input type="text"/></p><p>Last Name: <input type="text"/></p><p>Email: <input type="text"/></p><p>Gender: <input type="radio"/> Male <input type="radio"/> Female</p><p>Date of Birth: <input type="text" value="mm / dd / yyyy"/></p><p>Phone Number: <input type="text"/></p><p><b>College:</b></p><p>College: <input type="text" value="Select your college"/></p><p>Department: <input type="text"/></p><p><b>Experience:</b></p><p>Previous Clubs: <input type="text"/></p><p>Years of Experience: <input type="text"/></p><p><b>QU Clubs:</b></p><p>Select the club <input type="text"/></p><p><b>Agreements:</b></p><p><input type="checkbox"/> I confirm the information provided above is accurate</p><p><input type="checkbox"/> I consent to my automatic enrollment in the selected club</p><p>Submit Query</p></div>	<div><h3>Club Application Form</h3><p>To join one of our university clubs, please submit this application form and I will help you register</p><p><b>Personal Information:</b></p><p>First Name: <input type="text"/></p><p>Last Name: <input type="text"/></p><p>Email: <input type="text"/></p><p>Gender: <input type="radio"/> Male <input type="radio"/> Female</p><p>Date of Birth: <input type="text" value="mm / dd / yyyy"/></p><p>Phone Number: <input type="text"/></p><p><b>College:</b></p><p>College: <input type="text" value="Select your college"/></p><p>Department: <input type="text"/></p><p><b>Experience:</b></p><p>Previous Clubs: <input type="text"/></p><p>Years of Experience: <input type="text"/></p><p><b>QU Clubs:</b></p><p>Select the club <input type="text"/></p><p><b>Agreements:</b></p><p><input type="checkbox"/> I confirm the information provided above is accurate</p><p><input type="checkbox"/> I consent to my automatic enrollment in the selected club</p><p>Submit Query</p></div>

\*Once you complete the above exercise, push your code to your GitHub repository under Lab-3 CSS Fundamentals.