

CMPS 356 Enterprise Application Development

Lab 2 – 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 **paddings**
- ✓ 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 will use the grid layout to position elements on a web page.
- **In PART C**, you will develop a responsive page layout using grid and media queries system.
- **In PART D**, you develop a complete website using the concepts that you practiced in part A,B and C

First sync your cmps356 repository using **GitHub Desktop** Client. Create a subfolder named “**Lab2-CSS**” inside the local working folder of your repository. You need to place your work in **Lab2-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 Lab2-CSS folder from the course github repo and copy it to your private repository
2. Open the **Lab2-CSS/Project** folder using **Webstorm**.
3. The folder contains a two files [**index.html**, **grid.html**]
4. Create styles.css file under a folder named “css” inside Lab2-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_border1

- 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_background1

You can use the following links to further practice

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

➔ <https://htmlcheatsheet.com/css/>

Part B –CSS Grid -Tutorial

The CSS grid is one of the most powerful css layout system that allow us to position elements in both directions. You will find a cheat sheet for grid layout at

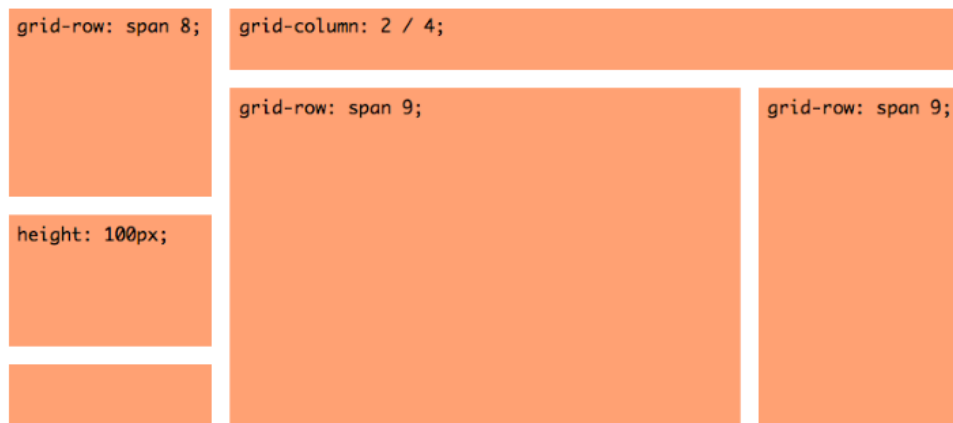
<http://grid.malven.co>

In the following links you will find a good tutorial about the grid layout

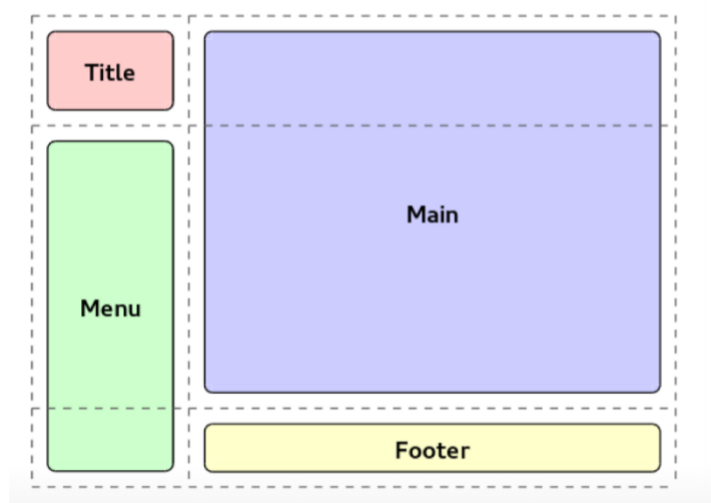
- https://www.w3schools.com/css/css_grid.asp
- https://developer.mozilla.org/en-US/docs/Web/CSS/CSS_Grid_Layout/Basic_Concepts_of_Grid_Layout

Create a grid layout that implements the following layouts

a.



b.



C.

Leave a Reply

Your email address will not be published. Required fields are marked *

Name *

Comment

Email *

Website

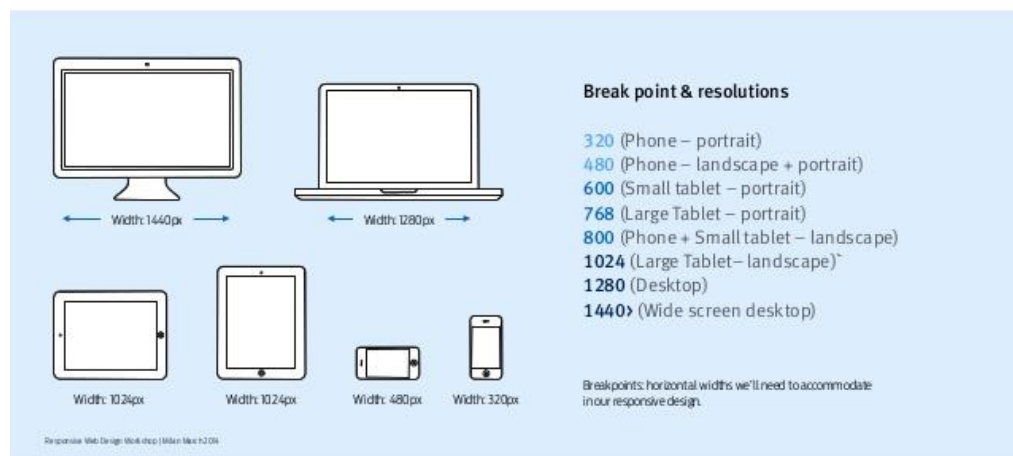
POST COMMENT

Part C – Responsive web design using Grid and Media Queries

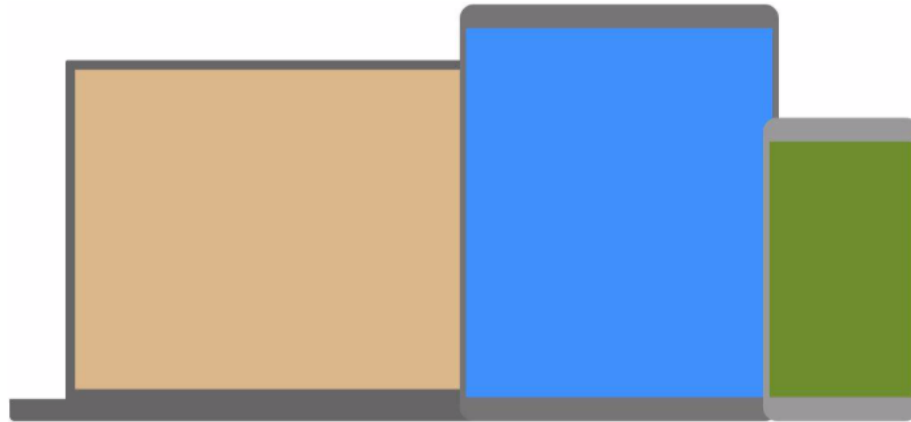
Media queries help us detect different screen sizes and allow us to adopt our layouts accordingly. In the following we will see how we can utilize them to make our website responsive.

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

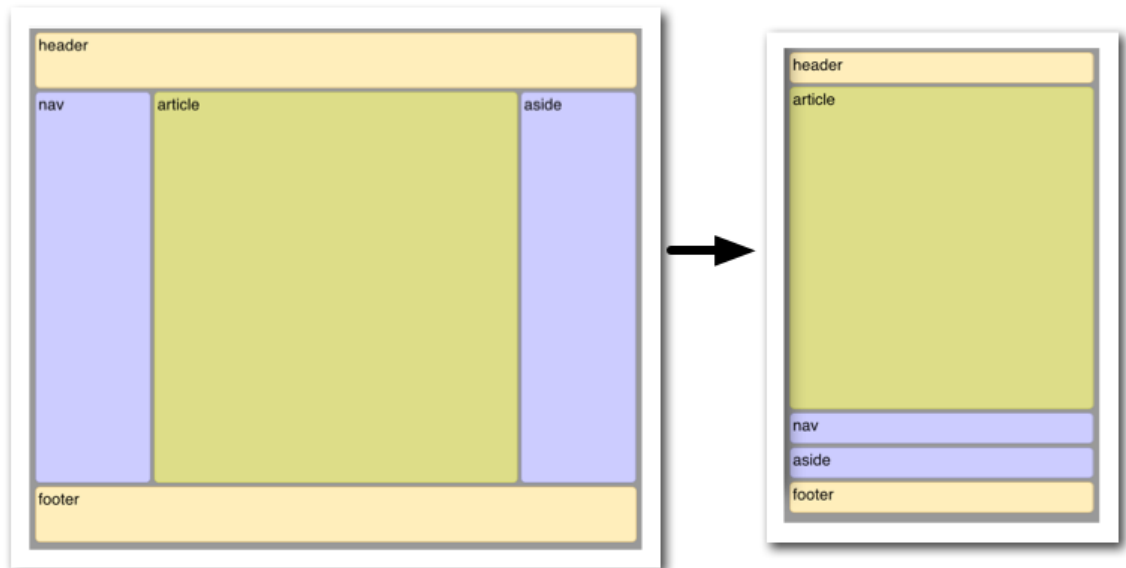
Breakpoints & Media queries



1. Using the above break points change the page background.



2. Using the grid layout and Media Queries to create the following responsive layouts.



Once you complete the lab practice exercises. Try to download the posted in lab assessment PDF file and complete all the requirements. Once you complete it,

1. Fill in the **Lab2-TestingDoc-Grading-Sheet.docx** and save it inside **Assessments/Lab2-CSS** folder
2. Sync your repository to push your work to Github