

National University of Sciences & Technology NBC

Lab # 4

Web Engineering Fall 2020



Instructor	
Student Name	
CMSID	
Department	
Semester	

Lesson Set 4

Introduction to Box Model and Media Query

Purpose

- 1. To get a basic awareness of VS Code
- 2. To understand HTML and why we are using it.
- 3. To learn the basics of an editor and create simple pages.
- 4. File Handling

Procedure

- 1. Students should read the Pre-lab Reading assignment before coming to the lab
- 2. Students should complete the Pre-lab Writing assignment before coming to the lab.
- 3. In the lab, students should complete Labs 4.1 through 4.4 in sequence. Your instructor will give further instructions as to grading and completion of the lab.
- 4. Students should complete the set of lab tasks before the next lab and get them checked by their lab instructor.

Contents	Pre-requisites	Completion Time	Page Number	
Pre-lab Reading Assignment	-	20 min	3	
Pre-lab Writing Assignment	Pre-lab Reading	10 min	4	
Lab 4				
Lab 4.1 Installing VS Code	Pre-lab reading	30 min	5	
Lab 4.2 Lab Tasks	Awareness with VS code	-	9	

What Is Box Model

In CSS and HTML, the Box Model refers to the concept of a rectangular box that wraps around every HTML element on a web page, such as text, images, and other elements. The box is made up of four parts: content, padding, border, and margin.

Content: It is the area inside the box that contains the actual content, such as text, images, or videos.

- Padding: It is the space between the content and the border. It can be used to add extra space between the content and the border.
- Border: It is a line that surrounds the padding and content of the box. It can be styled in various ways, such as color, width, and style.
- Margin: It is the space outside the border. It can be used to create space between the box and other elements on the web page.

Together, these four parts of the box model determine the total size and shape of an HTML element on a web page. Understanding the box model is important for properly positioning and styling elements on a web page using CSS.

Margin Property Border Property Padding Property GeeksforGeeks Width

CSS Box-Model Property

Media Query

Media queries in CSS allow you to apply specific styles to a web page based on certain conditions, such as the screen size of the device being used to view the page. Media queries are commonly used in responsive web design to create a layout that can adapt to different screen sizes and devices.

The basic syntax for a media query is as follows:

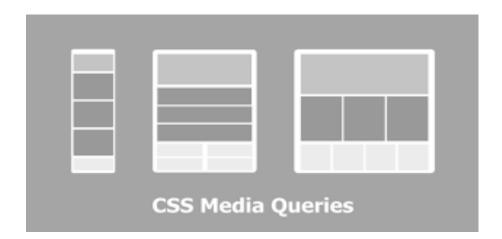
```
@media screen and (max-width: 768px) {
  /* CSS styles go here */
}
```

In this example, the media query applies styles only when the screen width is 768 pixels or less. You can also use min-width to apply styles only when the screen width is greater than a certain value. Media queries can also be used for other conditions, such as device orientation, screen resolution, and more. For example:

```
@media (orientation: landscape) {
  /* CSS styles for landscape orientation */
}

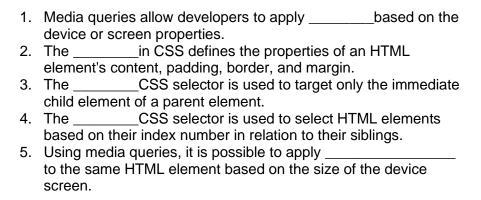
@media (resolution: 300dpi) {
  /* CSS styles for high-resolution screens */
}
```

Media queries can be very powerful tools in creating flexible, responsive web designs that can adapt to a wide range of devices and screen sizes.



PRELAB WRITING ASSIGNMENT

Fill in the blanks



Lab Tasks

What is 12 Column Grid explain with example.

2. Make a responsive resume web page with HTML and CSS only and upload on GitHub Pages

No, Screenshot required just paste your GitHub page link here.