

Lab Exercise 03 – Add styles to a web page

Objectives

By the end of this lab session, you will be able to design your web page using styles.

Introduction

- CSS Stands for "Cascading Style Sheet" and used to format the layout of Web pages.
- It can control the layout of multiple web pages all at once.
- External style sheets are stored in CSS files. (This method is the preferred one)
- Internal Styles and Inline styles include in HTML file.

- **Internal Styles**

Internal styles are defined inside of `<style>` element which is inside `<head>` element.

This method uses if only a single page has a unique style.

- **Inline Styles**

Inline styles define inside the exact element. This uses when that specific element has a unique style.

- Class and Id

Both classes and Ids work as selectors in HTML. The advantage of these are they can use same HTML tag but view or display it in different ways.

- **Class**

In CSS class selector is a name proceed by a `(.)`.

Following is an example of class selector.

In HTML

```
<div class="classExample">
```

In CSS

```
.classExample{  
Background-color: white;  
}
```

- **Id**

In css class selector is a name proceed by a `(#)`.

Following is an example of class selector.

In HTML

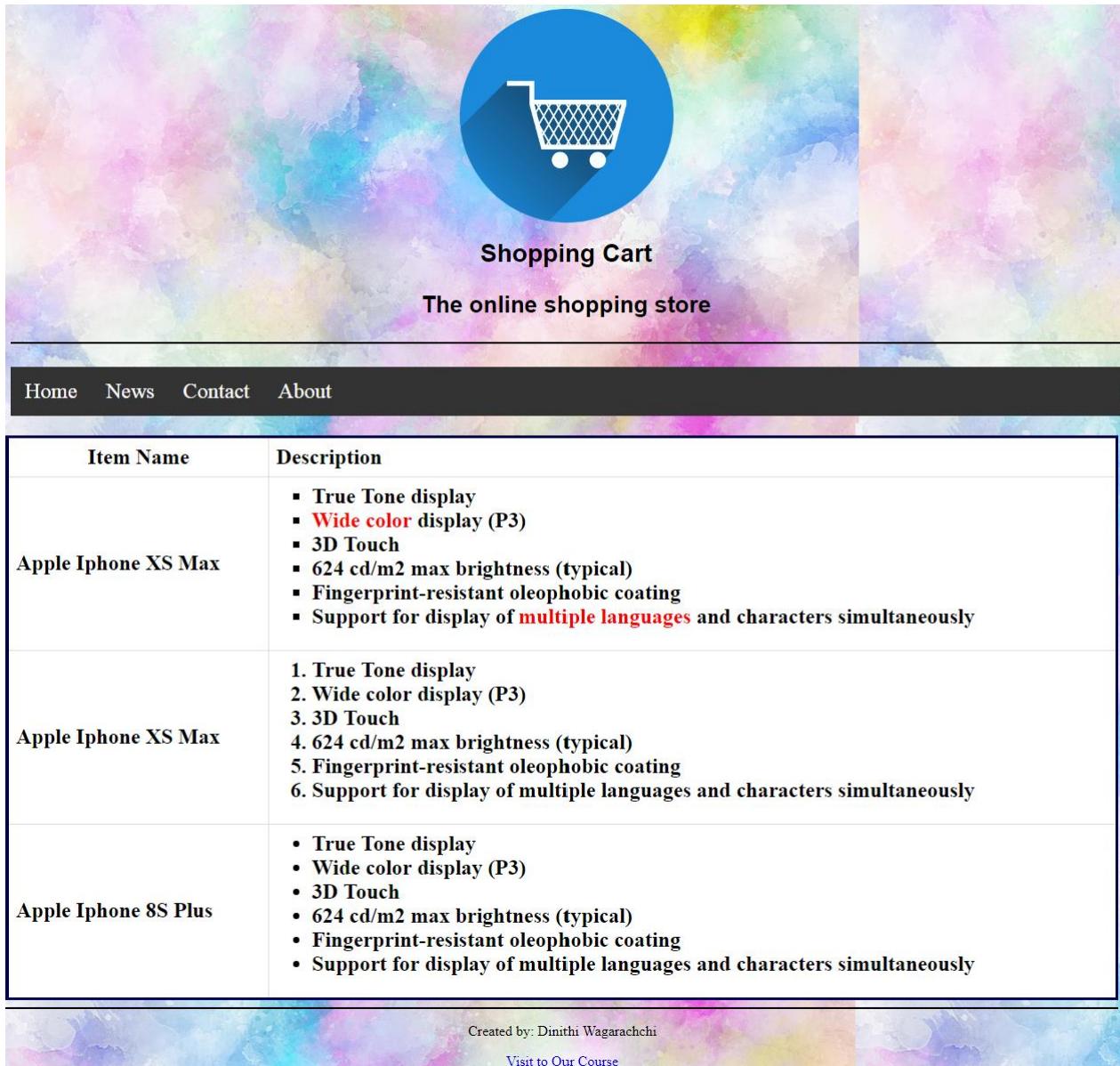
```
<div class="idExample">
```

In CSS

```
#idExample{  
Background-color: white; }
```

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Exercise 1: Following will be the outcome of the today's lab session.



The screenshot shows a web page with a colorful, abstract background. At the top center is a blue circle containing a white shopping cart icon. Below the icon, the text "Shopping Cart" is centered. Underneath that, the text "The online shopping store" is also centered. A horizontal navigation bar at the top has links for Home, News, Contact, and About. The main content area contains a table with three rows. The first two rows have a dark gray background, and the third row has a white background. Each row has two columns: "Item Name" and "Description".

Item Name	Description
Apple Iphone XS Max	<ul style="list-style-type: none"> ▪ True Tone display ▪ Wide color display (P3) ▪ 3D Touch ▪ 624 cd/m² max brightness (typical) ▪ Fingerprint-resistant oleophobic coating ▪ Support for display of multiple languages and characters simultaneously
Apple Iphone XS Max	<ol style="list-style-type: none"> 1. True Tone display 2. Wide color display (P3) 3. 3D Touch 4. 624 cd/m² max brightness (typical) 5. Fingerprint-resistant oleophobic coating 6. Support for display of multiple languages and characters simultaneously
Apple Iphone 8S Plus	<ul style="list-style-type: none"> • True Tone display • Wide color display (P3) • 3D Touch • 624 cd/m² max brightness (typical) • Fingerprint-resistant oleophobic coating • Support for display of multiple languages and characters simultaneously

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- Go to the IWT folder structure which you created on last week.
- Create a file named styles.css inside the “IWT/styles” folder.
- Open both styles.css and index.html files.
- Fill the following boxes with the relevant style codes for the given activities.

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- Connect the style sheet to index.html using following example.

https://www.w3schools.com/tags/tag_link.asp

- Add a background image to index.html
 - Go to following link and download a suitable image and save it inside the images folder.

https://www.google.com/search?q=background+image&source=lnms&tbo=isch&sa=X&ved=0ahUKEwiZ_o6ouqrhAhWMfSsKHVMIDocQ_AUIDigB&biw=1600&bih=718

- Set the image as the background image of your web page.
https://www.w3schools.com/cssref/pr_background-image.asp

- Logo
 - Create a CSS class named “logo” in styles.css. Use following example in order to center your Logo.

https://www.w3schools.com/howto/howto_css_image_center.asp

- Call the class named logo (created in the previous step) to the tag in index.html. (Introduction to classes and Ids are containing in the introduction section of this lab sheet)
- Headers
 - Change the font type and font size of the headers using following example.

https://www.w3schools.com/css/css_font.asp

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- Horizontal Line
 - Format the horizontal line in index.html as 1px thick (Using a border) and Color of the horizontal line as black.

https://www.w3schools.com/howto/howto_css_style_hr.asp

- Horizontal Navigation bar.
 - Style the menu list (unordered list in index.html) to display horizontally.
(Here you have to style the list which you created last week and make it horizontal)

https://www.w3schools.com/css/css_navbar.asp

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- Table
 - Add the complete table inside a <div> tag.
 - Add a class named “productData” in styles.css in order to change the background color of the table.
 - Call the “productData” inside the div tag.

https://www.w3schools.com/cssref/pr_background-image.asp

- Align the text in product name column to center.
- Align the text in product description column to left.

https://www.w3schools.com/cssref/pr_text_text-align.asp

- Change the font color of some words in product description.

https://www.w3schools.com/tags/att_font_color.asp

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- Set top margin to 15px and other three margins as 10px.

https://www.w3schools.com/css/css_margin.asp

- Add a border and make that border's style, 'groove'.
- Make the border color, dark-blue.

https://www.w3schools.com/css/css_border.asp

- Add a padding of 3px.

https://www.w3schools.com/css/css_margin.asp

- Footer
 - Align the texts center.
 - Change the font style of the text.

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Exercise 2:

Compare three methods of using style sheets.