TRAINING REPORT (TR-102)

DAY: -5 (14 JUNE 2024)

INTRODUCTION OF CSS

CSS is the language we use to style a Web page.

- CSS stands for Cascading Style Sheets.
- CSS describes how HTML elements are to be displayed on screen, paper, or in other media.
- CSS saves a lot of work. It can control the layout of multiple web pages all at once.
- External stylesheets are stored in CSS files.

WHY Use CSS?

CSS is used to define styles for your web pages, including the design, layout, and variations in display for different devices and screen sizes.

Example:

```
body {
  background-color: lightblue;
}

h1 {
  color: white;
  text-align: center;
}

p {
  font-family: verdana;
  font-size: 20px;
}
```
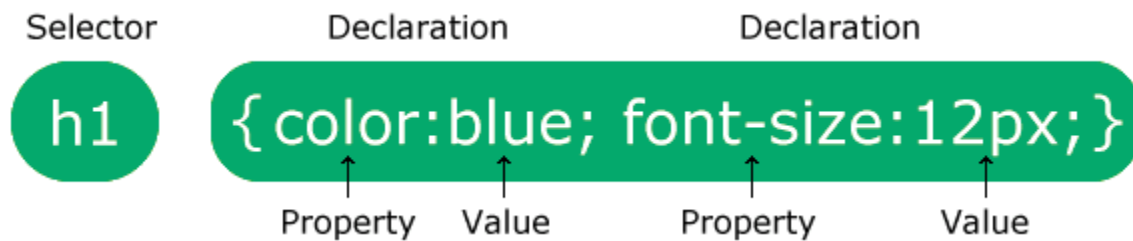
CSS Solved a Big Problem

- HTML was NEVER intended to contain tags for formatting a web page!
- HTML was created to describe the content of a web page, like:
  - ➢ <h1>This is a heading</h1>
  - ➢ <p>This is a paragraph. </p>
- When tags like <font>, and color attributes were added to the HTML 3.2 specification, it started a nightmare for web developers. The development of large websites, where fonts and color information were added to every single page, became a long and expensive process.

- To solve this problem, the World Wide Web Consortium (W3C) created CSS.
- CSS removed the style formatting from the HTML page!
- CSS Saves a Lot of Work!

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- The style definitions are normally saved in external .css files.

- With an external stylesheet file, you can change the look of an entire website by changing just one file!

CSS Syntax: - A CSS rule consists of a selector and a declaration block.

CSS Syntax

- The selector points to the HTML element you want to style.
- The declaration block contains one or more declarations separated by semicolons.
- Each declaration includes a CSS property name and a value, separated by a colon.
- Multiple CSS declarations are separated with semicolons, and declaration blocks are surrounded by curly braces.

There are three ways of inserting a style sheet: -

- External CSS
- Internal CSS
- Inline CSS

External CSS

With an external style sheet, you can change the look of an entire website by changing just one file!

Each HTML page must include a reference to the external style sheet file inside the <link> element, inside the head section.

Example

<!DOCTYPE html>
<html>
<head>
<link rel="stylesheet" href="mystyle.css">
</head>
<body>

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```html
<h1>This is a heading</h1>
<p>This is a paragraph</p>

</body>
</html>
```

An external style sheet can be written in any text editor and must be saved with a .css extension. The external .css file should not contain any HTML tags.

Here is how the "mystyle.css" file looks:

```css
body {
  background-color: lightblue;
}

h1 {
  color: navy;
  margin-left: 20px;
}
```

Internal CSS

An internal style sheet may be used if one single HTML page has a unique style.

The internal style is defined inside the <style> element, inside the head section.

Example

```html
<!DOCTYPE html>
<html>
<head>
<style>
body {
  background-color: linen;
}

h1 {
  color: maroon;
  margin-left: 40px;
}
</style>
</head>
<body>

<h1>This is a heading</h1>
<p>This is a paragraph </p>
```

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</body>

Inline CSS

An inline style may be used to apply a unique style to a single element.

To use inline styles, add the style attribute to the relevant element. The style attribute can contain any CSS property.

```
<!DOCTYPE html>
<html>
<body>

<h1 style="color:blue;text-align:center;">This is a heading</h1>
<p style="color:red;">This is a paragraph.</p>

</body>
</html>
```

CSS Margins

The CSS margin properties are used to create space around elements, outside of any defined borders.

With CSS, you have full control over the margins. There are properties for setting the margin for each side of an element (top, right, bottom, and left).

Margin - Individual Sides CSS has properties for specifying the margin for each side of an element:

- margin-top
- margin-right
- margin-bottom
- margin-left

All the margin properties can have the following values:

- auto - the browser calculates the margin
- *length* - specifies a margin in px, pt, cm, etc.
- *%* - specifies a margin in % of the width of the containing element
- inherit - specifies that the margin should be inherited from the parent element

Tip: - Negative values are allowed.

Example

Set different margins for all four sides of a <p> element:

```css
p {
  margin-top: 100px;
  margin-bottom: 100px;
  margin-right: 150px;
  margin-left: 80px;
}
```

<u>Margin - Shorthand Property:-</u> To shorten the code, it is possible to specify all the margin properties in one property. The margin property is a shorthand property for the following individual margin properties:

- margin-top
- margin-right
- margin-bottom
- margin-left

So, here is how it works:

If the margin property has four values:

- **margin: 25px 50px 75px 100px;**
    - top margin is 25px
    - right margin is 50px
    - bottom margin is 75px
    - left margin is 100px

Example

Use the margin shorthand property with four values:

```css
p {
  margin: 25px 50px 75px 100px;
}
```

If the margin property has three values:

- **margin: 25px 50px 75px;**
    - top margin is 25px
    - right and left margins are 50px
    - bottom margin is 75px

If the margin property has two values:

- **margin: 25px 50px;**
    - top and bottom margins are 25px
    - right and left margins are 50px

If the margin property has one value:

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- **margin: 25px;**
  - all four margins are 25px

CSS Padding

The CSS padding properties are used to generate space around an element's content, inside of any defined borders.

With CSS, you have full control over the padding. There are properties for setting the padding for each side of an element (top, right, bottom, and left).

Padding - Individual Sides

CSS has properties for specifying the padding for each side of an element:

- padding-top
- padding-right
- padding-bottom
- padding-left

All the padding properties can have the following values:

- *length* - specifies padding in px, pt, cm, etc.
- *%* - specifies a padding in % of the width of the containing element
- inherit - specifies that the padding should be inherited from the parent element

Note: Negative values are not allowed.

Example

Set different padding for all four sides of a <div> element:

```
div {
  padding-top: 50px;
  padding-right: 30px;
  padding-bottom: 50px;
  padding-left: 80px;
}
```

Padding - Shorthand Property

To shorten the code, it is possible to specify all the padding properties in one property.

The padding property is a shorthand property for the following individual padding properties:

- padding-top
- padding-right
- padding-bottom

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- padding-left

So, here is how it works:

If the padding property has four values:

- **padding: 25px 50px 75px 100px;**
  - top padding is 25px
  - right padding is 50px
  - bottom padding is 75px
  - left padding is 100px

If the padding property has three values:

- **padding: 25px 50px 75px;**
  - top padding is 25px
  - right and left paddings are 50px
  - bottom padding is 75px

If the padding property has two values:

- **padding: 25px 50px;**
  - top and bottom paddings are 25px
  - right and left paddings are 50px

If the padding property has one value:

- **padding: 25px;**
  - all four paddings are 25px

Inline CSS:

Inline CSS is a method that applies CSS styling directly to HTML elements using the 'style' attribute. This approach allows developers to define styles for individual elements, making it an effective tool for applying unique styles to specific HTML elements.

Syntax: <tag style=" property: value"; >

Properties of CSS:

1. **Background property:**

The background property is a shorthand property for:

- background-color   Syntax: background-color: *color*|transparent|initial|inherit;
- background-image   Syntax: background-image: url('link/path');
- background-size   Syntax: background-size: cover/100 %;
- background-repeat   Syntax: background-repeat: no-repeat;

It does not matter if one of the values above is missing, e.g. background: #ff0000 url(smiley.gif); is allowed.

2. Border property:

The border property is a shorthand property for:

- border-width   Syntax: border-width: ;
- border-style (required) Syntax: border-style: dotted/dashed/solid/groove/ridge/inset/outset   ;
- border-color Syntax: border-color: ;

If border-color is omitted, the color applied will be the color of the text.

Border shorthand property:

 border: 2px solid red;

3. **CSS Colors, Fonts and Sizes**

Here, we will demonstrate some commonly used CSS properties. You will learn more about them later.

The CSS color property defines the text color to be used.

The CSS font-family property defines the font to be used.

The CSS font-size property defines the text size to be used.

Anchor tag:

The <a> tag defines a hyperlink, which is used to link from one page to another.

The most important attribute of the <a> element is the href attribute, which indicates the link's destination.

By default, links will appear as follows in all browsers:

- An unvisited link is underlined and blue
- A visited link is underlined and purple
- An active link is underlined and red

 Syntax:

Example: Visit W3Schools.com!

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
```

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```html
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>HTML</title>
  </head>
  <body>
    <h1>Heading 1</h1>
    <h2>Heading 2</h2>
    <h3>Heading 3</h3>
    <h4>Heading 4</h4>
    <h5>Heading 5</h5>
    <h6>Heading 6</h6>
    <p>Web development, also known as website development, refers to the tasks associated
with creating, building, and maintaining websites and web applications that run online on a
browser. It may, however, also include web design, web programming, and database
management.Web development is closely related to the job of designing the features and
functionality of apps (web design). The term development is usually reserved for the actual
construction of these things (that is to say, the programming of sites).The basic tools
involved in web development are programming languages called HTML (Hypertext Markup
Language), CSS (Cascading Style Sheets), and JavaScript. There are, however, a number of
other programs used to "manage" or facilitate the construction of sites that would otherwise
have to be done "from scratch" by writing code. A number of content management systems (CMS)
fall into this category, including WordPress, Joomla!, Drupal, TYPO3, and Adobe Experience
Manager, among others.</p>
    <a href="course1.html">course1</a>
</body>
</html>
```

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eos, voluptas ducimus sequi
illum ipsa exercitationem
        quas iste pariatur sed numquam recusandae corrupti saepe corporis ratione, impedit
blanditiis laudantium non
        consectetur sint unde. Eos quo, voluptates, ratione veniam quis voluptate vero
soluta id perspiciatis deleniti
        atque corrupti eaque sequi illo incidunt totam reiciendis esse sint ex! Sequi eaque
sapiente quam eveniet?
        Magni sunt quidem mollitia consequatur necessitatibus porro esse quod! Harum
assumenda eligendi quisquam quia
        vitae et aliquam porro, molestias unde autem praesentium iusto qui deserunt sed
aspernatur eos voluptatem
```

```html
        accusantium? Adipisci consequuntur, assumenda animi dolore ad repudiandae sint
ullam dignissimos?</p>
        <img
src="data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAD/2wCEAAkGBxITEhIQEBIQEBAQFRAVFQ8PDw8PE
```
A8PFREWFhURFRUYHSggGBolHRUVITEhJSkrLi4uFx8zODMtNygtLisBCgoKDg0OGxAQGi0dHR0tLS0tLS0tLS0tLS0tLS
0tLS0tLS0tLS0tLS0tLS0tLS0tLS0tLS0tLS0tKy0tLS0tLS0tK//AABEIAKgBLAMBEQACEQEDEQH/xAAbAAACAwEBAQAAA
AAAAAAAADBAIFBgEAB//EADcQAAIBAwMDAgYBAgUDBQAAAAECAAMRIQQSMQVBUWFxBhMiMoGRoWKxFCNSwfBCcuEzY4Ky
wv/EABsBAAIDAQEBAAAAAAAAAAAAAAIDAQQFAAYH/8QANBEAAgIBBAAEBAQFBAMAAAAAAAECEQMSITEEQVFhExMiQTJRYfBxg
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OKE69S0m6DjxTV1CRAcx+PHT5A06zAWtOUw5Qi2EOtIEneB5KYZeo2tJ3IW9NYap1S3edaFrSmOotDTNhodpvGJimhum
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QxsSFIx0QQmibLDOR1cSCWgOoqybJjjEPAaVzkWLNtsdEPXMBxCzCOLBz6TgpQrQccx+PHT5A06zAWtOUw5Qi2EOtIEneB5K
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OgokGEpNhgCsiybOiAwGcimRQxQETIXIdQRQphLQ0CRqRsQooEDG0NoNCiiEheqI1DYoCFhxGBkpiOQFi9cQxsSFIx0QQmi
bLDOR1cSCWgOoqybJjjEPAaVzkWLNtsdEPXMBxCzCOLBz6TgpQrQ

KfJikzpPkRJJvaA3QVkaNLzITJbG2sB6wXIWrsHTFzFuQzpBlTM5zRHsTdPaD5iORZdH1S0kUCYus1U/M4KOpi5y5Hdd1
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wyQWHHF/HMXCeWbUW7BjhxYfW/Y1fS+nCnS2s4ZjlrcA+B6TUjjWKDvt9mJk8RctRviqiuhCr0dQ+4Ni/GJRlG2en03jU
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QA/wBAGf1G+TFeyBljyXy3+p880rkqJ4LVRSyM9Hlj6iw0dO4YRWGajlTK/TMnrk21GX1nuMGTdjTN7E90Ew+niM0iGNr
M2TACCLbODJEyYDDpFAhAZyIOFo1BpHQ0Mk7eGiSRhI5DXRawWqIGZtQsVqYt4zWdSKV6TUHbYjixbGACD/tM/wAN10nr
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MumnceUyv0iVA4tURBkbXQOpu2QQTtvnx725leS29Pg01N5I3s5HtXvCgJXpE2ts2Uz90b4A+7yRe+LXnSla7JwY6lcoF
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7/wBohTTlRZWLizg1Xrztsb4sw+lvQG3PkD3jdwOwi2p78WsD/S17WNuORmFFgNKzh1hH4vfGBDVgyUdtvg7pupK2UAP9
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NfcXEQaEgkaPpCWQTG8Sn7GdndyHtLl7+JSwQcpJIrZHUSq691Kx2rzPfeDeExxfxZrkwNbra9EOzMaive89LKSSooYcU
m7Yjqnv+JUlO3wakMe1clh0OtSqafU0Gxb/OP/aBm3rcKfwJn6hT8yMoF7BljFvdzwUDVlGVvzf1BIz+5coRLUpkK31Jc
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