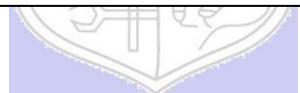




## Tutorial No. 2

**Basics of HTML and CSS- Table, List, Image, Hyperlink, Class and ID,  
HTML5 Audio tag, Video tag**



Batch: B-4

Roll No: 16010422234

Name: Chandana Ramesh Galgali

Tutorial no: 2

**Aim:** Basics of HTML and CSS - Table, List, Image, Hyperlink, Class and ID, HTML5 Audio tag, Video tag

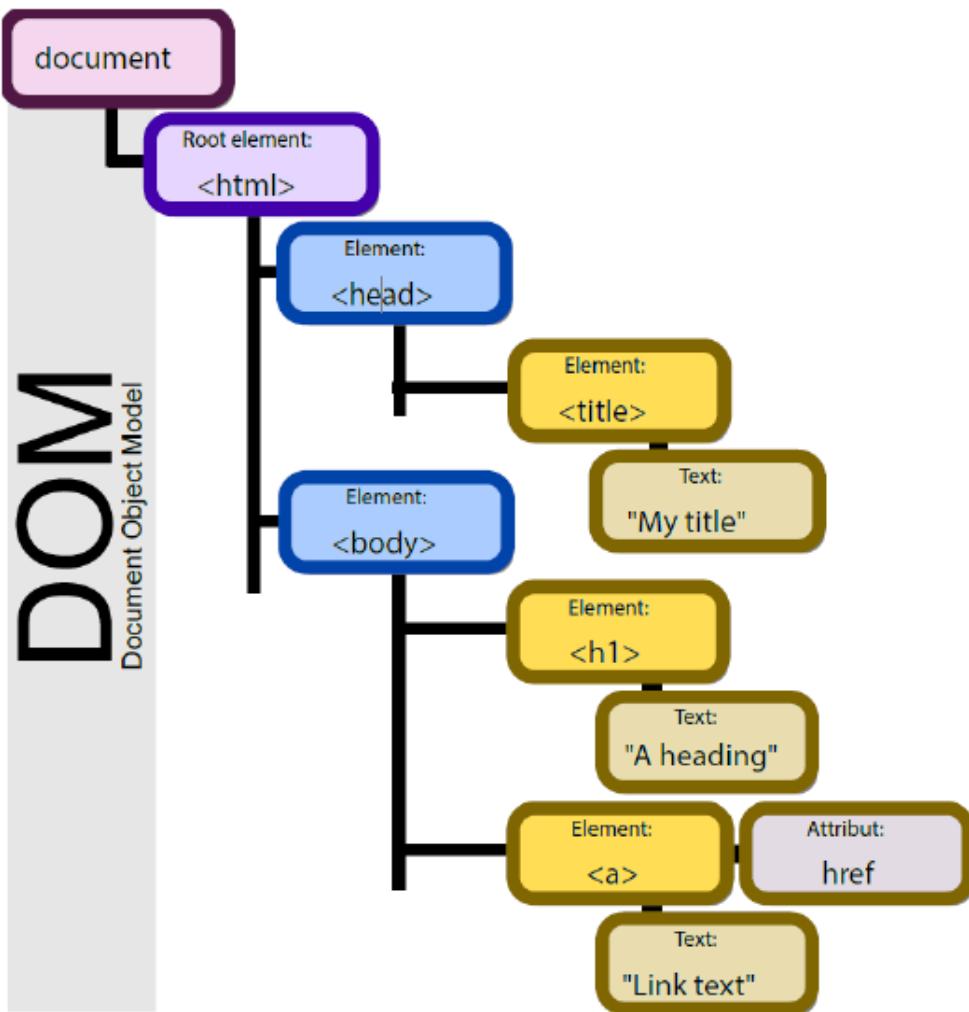
---

**Resources needed:** Web browser, HTML Editor/Notepad ++, Bracket, and Sublime Text

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### Theory:

- **HTML (HyperText Markup Language).** This language specifies the *structure* and *content* of a web page. You can think of it as the flesh and bones of a site.
- **CSS (Cascading Style Sheets).** This language specifies the *appearance, presentation* or *style* of a web page. You can think of it as the clothes, though sometimes the metaphor of skin is used.



The DOM is built to be language and platform independent so any software or programming language can use it to interface with documents. It defines the interface methods and object types that represent elements of documents, the semantics and behavior of attributes of those objects, and also defines how they relate to one another. The DOM, effectively, is what gives rise to the tags we are about to study below. Languages that use the DOM, however, are not required to include all of its features and may generate additional features of their own.

Figure above depicts an example of a document's model in a tree format, with nested elements appearing to the right and below their parents. In this example, we are shown an HTML page with a section for the head and the body, which includes a page title and a link as its contents. This structure provides the ability for us to traverse, or move around the document, by referring to an object's name or attribute.

### HTML Documents:

All HTML documents must start with a document type declaration: `<!DOCTYPE html>`.

The HTML document itself begins with `<html>` and ends with `</html>`.

The visible part of the HTML document is between `<body>` and `</body>`.

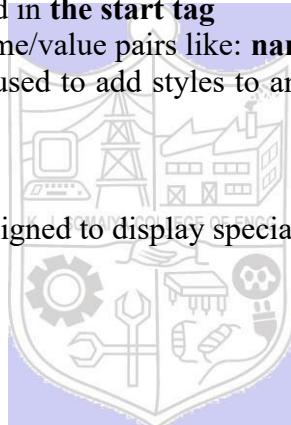
### HTML Elements:

The HTML **element** is everything from the start tag to the end tag:

`<tagname>Content goes here...</tagname>`

### HTML Attributes:

- All HTML elements can have **attributes**
- Attributes provide **additional information** about elements
- Attributes are always specified in **the start tag**
- Attributes usually come in name/value pairs like: `name="value"`
- The **HTML style** attribute is used to add styles to an element, such as color, font, size, and more.



### HTML Text Formatting:

HTML Formatting elements were designed to display special types of text:

- `<b>` - Bold text
- `<strong>` - Important text
- `<i>` - Italic text
- `<em>` - Emphasized text
- `<mark>` - Marked text
- `<small>` - Smaller text
- `<del>` - Deleted text
- `<ins>` - Inserted text
- `<sub>` - Subscript text
- `<sup>` - Superscript text

### HTML Quotation and Citation Elements

- `<abbr>` -Defines an abbreviation or acronym
- `<address>` - Defines contact information for the author/owner of a document
- `<bdo>` - Defines the text direction
- `<blockquote>` - Defines a section that is quoted from another source
- `<cite>` - Defines the title of a work
- `<q>` - Defines a short inline quotation

### HTML Comment Tags

You can add comments to your HTML source by using the following syntax:

`<!-- Write your comments here -->`

## What is CSS?

Cascading Style Sheets (CSS) is used to format the layout of a webpage.

With CSS, you can control the color, font, the size of text, the spacing between elements, how elements are positioned and laid out, what background images or background colors are to be used, different displays for different devices and screen sizes, and much more!

## Using CSS

CSS can be added to HTML documents in 3 ways:

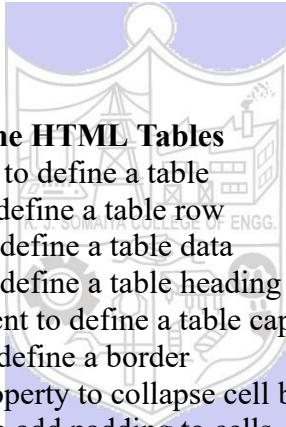
- **Inline** - by using the `style` attribute inside HTML elements
- **Internal** - by using a `<style>` element in the `<head>` section
- **External** - by using a `<link>` element to link to an external CSS file

The most common way to add CSS, is to keep the styles in external CSS files. However, in this tutorial we will use inline and internal styles, because this is easier to demonstrate, and easier for you to try it yourself.

---

### Activity:

Students are required to



#### 1. Tables:

##### Explore following tags and style the HTML Tables

1. Use the HTML `<table>` element to define a table
2. Use the HTML `<tr>` element to define a table row
3. Use the HTML `<td>` element to define a table data
4. Use the HTML `<th>` element to define a table heading
5. Use the HTML `<caption>` element to define a table caption
6. Use the CSS `border` property to define a border
7. Use the CSS `border-collapse` property to collapse cell borders
8. Use the CSS `padding` property to add padding to cells
9. Use the CSS `text-align` property to align cell text
10. Use the CSS `border-spacing` property to set the spacing between cells
11. Use the `colspan` attribute to make a cell span many columns
12. Use the `rowspan` attribute to make a cell span many rows
13. Use the `id` attribute to uniquely define one table

#### 2. Lists:

##### Explore following tags of HTML Lists

1. `<ul>` Defines an unordered list
2. `<ol>` Defines an ordered list
3. `<li>` Defines a list item
4. `<dl>` Defines a description list
5. `<dt>` Defines a term in a description list
6. `<dd>` Describes the term in a description list

#### 3. Images:

##### Explore following tags of Images

1. Use the HTML `<img>` element to define an image
2. Use the HTML `src` attribute to define the URL of the image
3. Use the HTML `alt` attribute to define an alternate text for an image, if it cannot be displayed
4. Use the HTML `width` and `height` attributes or the CSS `width` and `height` properties to define the size of the image

5. Use the CSS `float` property to let the image float to the left or to the right

#### 4. Block and Inline Elements

1. The `<div>` element is a block-level and is often used as a container for other HTML elements
2. The `<span>` element is an inline container used to mark up a part of a text, or a part of a document

#### 5. Class Attribute:

##### Explore the Use of class Attribute:

1. Create multiple `<div>` elements with the same class attribute.
2. Style all the class Elements equally using `.className` style definition in head section.

#### 6. Compare ID and Class.

#### 7. Use the `id` attribute to style a specific element using CSS.

#### 8. Make use of Audio tag `<audio controls>` and Video tag with `controls`, `width` and `height` attributes to include media in your webpage.

---

Code:

html file

```
<!DOCTYPE html>

<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet"
        href="https://fonts.googleapis.com/specimen/Playfair+Display">
    <link rel="stylesheet" href="style.css">
    <title>Shop</title>
</head>
<body>
    <header>
        <video id="video-background" autoplay loop muted>
            <source src="C:\Users\chand\Downloads\IV
SEM\WP-1\TUT\Perfume_commercial.mp4" type="video/mp4">
        </video>
        <font size="6" color="white" align="center">
            Scent Haven
        <nav>
            <a href="C:\Users\chand\Downloads\IV
SEM\WP-1\EXP-3\exp3.html">Home</a>    |
            <a href="#samepage">Shop</a>    |
            <a href="C:\Users\chand\Downloads\IV
SEM\WP-1\EXP-3\exp3c.html">About Us</a>    |
            <a href="C:\Users\chand\Downloads\IV
SEM\WP-1\EXP-3\exp3d.html">Blog</a>    |
    
```

```

        <a href="mailto:chandana.galgali@gmail.com">Contact</a>
    </font>
    </nav>
</header>

<marquee direction="right"><h2>Shop - by category</h2></marquee>

<div class="slideshow-container">

    <div class="mySlides">
        
        <div class="caption"><a href="tut2.html #fruity">Fruity Scents</a></div>
    </div>

    <div class="mySlides">
        
        <div class="caption"><a href="tut2.html #floral">Floral Fragrances</a></div>
    </div>

    <div class="mySlides">
        
        <div class="caption"><a href="tut2.html #woody">Woody Notes</a></div>
    </div>

    <div class="mySlides">
        
        <div class="caption"><a href="tut2.html #spicy">Spicy Aromas</a></div>
    </div>

</div>

    <button class="prev" onclick="plusSlides(-1)">=</button>
    <button class="next" onclick="plusSlides(1)">=</button>

<ul>
    <li><a name="fruity">Fruity Scents</a></li>
    <table>
        <tr>
            <th>Perfume</th>
            <th>Visuals</th>
            <th>Notes</th>
            <th>Price</th>
        </tr>
        <tr>
            <td>Dolce & Gabbana Light Blue</td>
            <td></img></td>
            <td>Sicilian Lemon, Apple, Cedarwood</td>
            <td>$70 - $100</td>
        </tr>
    </table>
</ul>

```

```

<tr>
    <td>Marc Jacobs Daisy Eau So Fresh</td>
    <td></img></td>
    <td>Raspberry, Grapefruit, Pear</td>
    <td>$80 - $120</td>
</tr>
<tr>
    <td>Chanel Chance Eau Tendre</td>
    <td></img></td>
    <td>Grapefruit, Quince, Jasmine</td>
    <td>$80 - $130</td>
</tr>
<tr>
    <td>Versace Bright Crystal</td>
    <td></img></td>
    <td> Pomegranate, Yuzu, Peony</td>
    <td>$60 - $100</td>
</tr>
</table>

<br>
<li><a name="floral">Floral Fragrances</a></li>
<table>
    <tr>
        <th>Perfume</th>
        <th>Visuals</th>
        <th>Notes</th>
        <th>Price</th>
    </tr>
    <tr>
        <td>Chloe Nomade</td>
        <td></img></td>
        <td>Freesia, Mirabelle, Oakmoss</td>
        <td>$80 - $120</td>
    </tr>
    <tr>
        <td>Gucci Bloom</td>
        <td></img></td>
        <td>Tuberose, Jasmine, Rangoon Creeper</td>
        <td>$90 - $150</td>
    </tr>

```

```

<tr>
    <td>Yves Saint Laurent Mon Paris</td>
    <td></img></td>
    <td>Strawberry, Raspberry, Peony</td>
    <td>$90 - $140</td>
</tr>
<tr>
    <td>Dior J'adore</td>
    <td></img></td>
    <td>Rose, Jasmine, Ylang-Ylang</td>
    <td>$100 - $150</td>
</tr>
</table>

<br>
<li><a name="woody">Woody Notes</a></li>
<table>
    <tr>
        <th>Perfume</th>
        <th>Visuals</th>
        <th>Notes</th>
        <th>Price</th>
    </tr>
    <tr>
        <td>Tom Ford Black Orchid</td>
        <td></img></td>
        <td>Black Truffle, Patchouli, Vanilla</td>
        <td>$120 - $180</td>
    </tr>
    <tr>
        <td>Byredo Gypsy Water</td>
        <td></img></td>
        <td>Juniper Berries, Incense, Amber</td>
        <td>$150 - $230</td>
    </tr>
    <tr>
        <td>Jo Malone English Oak & Hazelnut</td>
        <td></img></td>
        <td>Green Hazelnut, Cedarwood, Roasted Oak</td>
        <td>$70 - $110</td>
    </tr>

```

```

<tr>
    <td>Bvlgari Man in Black</td>
    <td></img></td>
    <td>Rum, Leather, Tonka Bean</td>
    <td>$80 - $120</td>
</tr>
</table>

<br>
<li><a name="spicy">Spicy Aromas</a></li>

<table>
    <tr>
        <th>Perfume</th>
        <th>Visuals</th>
        <th>Notes</th>
        <th>Price</th>
    </tr>
    <tr>
        <td>Yves Saint Laurent Black Opium</td>
        <td></img></td>
        <td>Coffee, Vanilla, White Flowers</td>
        <td>$90 - $140</td>
    </tr>
    <tr>
        <td>Viktor & Rolf Spicebomb</td>
        <td></img></td>
        <td>Bergamot, Cinnamon, Leather</td>
        <td>$92.00</td>
    </tr>
    <tr>
        <td>Armani Code Profumo</td>
        <td></img></td>
        <td>Cardamom, Leather, Tonka Bean</td>
        <td>$80 - $130</td>
    </tr>
    <tr>
        <td>Dolce & Gabbana The One for Men</td>
        <td></img></td>
        <td>Coriander, Ginger, Tobacco</td>
        <td>$70 - $110</td>
    </tr>

```

```

        </table>
    </ul>
<div class="customer-reviews">
    <h3>Customer Reviews</h3>
    <div class="review">
        <em>John Doe: I love the Dolce & Gabbana Light Blue perfume! It has
a fantastic blend of scents.</em>
        <span class="like-button" onclick="toggleLike(this)">¶</span>
    </div>
    <div class="review">
        <em>Jane Smith: The floral fragrances are amazing! Gucci Bloom is my
favorite.</em>
        <span class="like-button" onclick="toggleLike(this)">¶</span>
    </div>
    <div class="review">
        <em>Michael Johnson: Versace Bright Crystal is my go-to perfume.
It's simply divine!</em>
        <span class="like-button" onclick="toggleLike(this)">¶</span>
    </div>
    <div class="review">
        <em>Emily Brown: Chanel Chance Eau Tendre is a sophisticated and
delightful fragrance. Perfect for any occasion!</em>
        <span class="like-button" onclick="toggleLike(this)">¶</span>
    </div>
    <div class="review">
        <em>Christopher White: I recently tried Marc Jacobs Daisy Eau So
Fresh, and it's a burst of fruity goodness! Highly recommended.</em>
        <span class="like-button" onclick="toggleLike(this)">¶</span>
    </div>
</div>
<script>
    function toggleLike(element) {
        element.classList.toggle("liked");
    }
    var slideIndex = 1;
    showSlides(slideIndex);
    function plusSlides(n) {
        showSlides(slideIndex += n);
    }
    function showSlides(n) {
        var i;
        var slides = document.getElementsByClassName("mySlides");
        if (n > slides.length) {
            slideIndex = 1;
        }
    }
</script>

```

```

        if (n < 1) {
            slideIndex = slides.length;
        }
        for (i = 0; i < slides.length; i++) {
            slides[i].style.display = "none";
        }
        slides[slideIndex - 1].style.display = "block";
    }
</script>
<hr>
<footer>
    &copy; Scent Haven (since 2004)
</footer>
</body>
</html>

```

**css file**

```

body {
    font-family: 'Playfair Display', serif;
    margin: 20px;
}

header {
    font-family: 'Playfair Display', serif;
    height: 250px;
    width: 100%;
    position: relative;
    overflow: hidden;
    display: flex;
    align-items: center;
    justify-content: space-around;
    border-radius: 10px 10px 10px 10px;
}

#video-background {
    opacity: 80%;
    position: absolute;
    top: 0;
    left: 0;
    width: 100%;
    height: 100%;
    object-fit: cover;
    z-index: -1;
}

nav {
    display: flex;
}

nav a {

```

```
text-decoration: none;
color: #FFFFFF;
margin-right: 20px;
margin-left: 20px;
}

nav a:hover {
    color: #c45252;
}

footer {
    padding: 10px;
    text-align: center;
    position: relative;
    bottom: 0;
    width: 100%;
}

h1, h2, h3 {
    font-family: 'Playfair Display', serif;
}

p {
    font-family: 'Playfair Display', serif;
}

ul, ol {
    list-style-type: circle;
    font-family: 'Playfair Display', serif;
}

table {
    border-collapse: collapse;
    width: 800px;
    margin-top: 20px;
    margin-bottom: 20px;
}

th, td {
    font-family: 'Playfair Display', serif;
    border: 1px solid #000000;
    padding: 8px;
    text-align: center;
}

.customer-reviews {
    margin-top: 30px;
    font-family: 'Playfair Display', serif;
}

.customer-reviews h3 {
    font-family: 'Playfair Display', serif;
}

.customer-reviews .review {
```

```
border: 1px solid #000000;
padding: 20px;
margin-bottom: 10px;
}

.like-button {
    cursor: pointer;
    position: relative;
    font-size: 20px;
    color: #FFFFFF;
    border: 1px solid #000000;
    border-radius: 100%;
    transition: color 0.3s ease;
    vertical-align: middle;
    align-self: self-end;
    z-index: 1;
    padding: 4px;
}

.like-button.liked {
    color: #ff5757;
}

.slideshow-container {
    width: 250px;
    position: relative;
    margin: auto;
}

.mySlides {
    display: none;
    text-align: center;
}

img {
    width: 250px;
    height: 300px;
    margin-left: 10px;
}

.caption {
    position: relative;
    width: 250px;
    text-align: center;
    background-color: rgba(0, 0, 0, 0.5);
    color: #fff;
    padding: 10px;
}

.prev {
    position: relative;
    top: 50%;
```

```
width: auto;
padding: 16px;
margin-top: 5px;
font-size: 20px;
color: white;
background-color: rgba(0, 0, 0, 0.5);
border: none;
cursor: pointer;
border-radius: 5px;
margin-left: 550px;
}

.next {
    position: relative;
    top: 50%;
    right: 0;
    width: auto;
    padding: 16px;
    margin-top: 5px;
    font-size: 20px;
    color: white;
    background-color: rgba(0, 0, 0, 0.5);
    border: none;
    cursor: pointer;
    border-radius: 5px;
}
```

---

**Result:**



**Shop - by category**



Woody Notes



o Fruity Scents

Perfume	Visuals	Notes	Price
Dolce & Gabbana Light Blue		Sicilian Lemon, Apple, Cedarwood	\$70 - \$100
Marc Jacobs Daisy Eau So Fresh		Raspberry, Grapefruit, Pear	\$80 - \$120

Chanel Chance Eau Tendre		Grapefruit, Quince, Jasmine	\$80 - \$130
Versace Bright Crystal		Pomegranate, Yuzu, Peony	\$60 - \$100

- Floral Fragrances

Perfume	Visuals	Notes	Price
Chloe Nomade		Freesia, Mirabelle, Oakmoss	\$80 - \$120
Gucci Bloom		Tuberose, Jasmine, Rangoon Creeper	\$90 - \$150

Yves Saint Laurent Mon Paris		Strawberry, Raspberry, Peony	\$90 - \$140
Dior J'adore		Rose, Jasmine, Ylang-Ylang	\$100 - \$150

- o Woody Notes

Perfume	Visuals	Notes	Price
Tom Ford Black Orchid		Black Truffle, Patchouli, Vanilla	\$120 - \$180
Byredo Gypsy Water		Juniper Berries, Incense, Amber	\$150 - \$230

Jo Malone English Oak & Hazelnut		Green Hazelnut, Cedarwood, Roasted Oak	\$70 - \$110
Bulgari Man in Black		Rum, Leather, Tonka Bean	\$80 - \$120

- o Spicy Aromas

Perfume	Visuals	Notes	Price
Yves Saint Laurent Black Opium		Coffee, Vanilla, White Flowers	\$90 - \$140
Viktor & Rolf Spicebomb		Bergamot, Cinnamon, Leather	\$92.00

Armani Code Profumo		Cardamom, Leather, Tonka Bean	\$80 - \$130
Dolce & Gabbana The One for Men		Coriander, Ginger, Tobacco	\$70 - \$110

#### Customer Reviews

John Doe: I love the Dolce & Gabbana Light Blue perfume! It has a fantastic blend of scents. 

Jane Smith: The floral fragrances are amazing! Gucci Bloom is my favorite. 

Michael Johnson: Versace Bright Crystal is my go-to perfume. It's simply divine! 

Emily Brown: Chanel Chance Eau Tendre is a sophisticated and delightful fragrance. Perfect for any occasion! 

Christopher White: I recently tried Marc Jacobs Daisy Eau So Fresh, and it's a burst of fruity goodness! Highly recommended. 

**Outcome:** Create Web pages using HTML 5 and CSS.

---

**Conclusion:** Through hands-on practice, we gained practical insights into web development, developing a solid foundation for creating well-structured and visually appealing web pages. The experiment successfully met its aim of introducing us to the basics of HTML and CSS, laying the groundwork for further exploration and understanding of web development principles.

---

**References:**

1. [https://eng.libretexts.org/Bookshelves/Computer\\_Science/Book%3A\\_Web\\_Development\\_and\\_Programming\\_\(Mendez\)/02%3A\\_Document\\_Makeup/2.01%3A\\_Markup\\_Languages](https://eng.libretexts.org/Bookshelves/Computer_Science/Book%3A_Web_Development_and_Programming_(Mendez)/02%3A_Document_Makeup/2.01%3A_Markup_Languages)
2. <https://www.w3schools.com/html/default.asp>