HTML and CSS Notes for self use

The basic layout of HTML is as given:

Inserting a video in a HTML page:

(Here A.mp4 is a video file in the same file as that of the .html file)

Inserting JavaScript and Css files in a HTML file

Headers in HTML:

```
1. <!DOCTYPE html>
2. <html lang="en">
3. <head>
       <meta charset="UTF-8">
4.
5.
       <meta name="viewport" content="width=device-width, initial-</pre>
   scale=1.0">
6.
       <title>Document</title>
7. </head>
8. <body>
9.
       <h1>My bookmarks - Smayan Kulkarni</h1>
10.
       <h2>Main Bookmarks - Smayan Kulkarni
11.
           can be used like this
12.
13.
       <h3>Main Bookmarks - Smayan Kulkarni</h3>
       <h4>Main Bookmarks - Smayan Kulkarni</h4>
14.
        <h5>Main Bookmarks - Smayan Kulkarni
15.
16.
            can be used like this too
17.
18.
       <h6>Main Bookmarks - Smayan Kulkarni</h6>
19.
       20.
21. </body>
22. </html>
```

My bookmarks - Smayan Kulkarni

Main Bookmarks - Smayan Kulkarni can be used like this

Main Bookmarks - Smayan Kulkarni

Main Bookmarks - Smayan Kulkarni

Main Bookmarks - Smayan Kulkarni can be used like this too

Main Bookmarks - Smayan Kulkarni

- The fucntion of "\n" is done by

- <sup> for super script: ex: ^{this} will show: this
- <sub> for subscript : ex <h1> | like H₂o</h1> will show: | like H2O

Adding an Image, making a table and making a List in a HTML page:

```
<!DOCTYPE html>
<html lang="en">
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Images</title>
   <link rel="stylesheet" href="style.css">
   <img width= "230" src="train.jpg" alt="Train Image">
   <br>
       Name 
          Age 
          Designation 
      </thead>
       Smayan
          17
          Student
       Shriayns
      Train Image
   Name Age Designation
                          Smayan 17
   Student
                          Shriayns
      Smayan
      Aryan
                            o Smayan
      Shriyans

    Aryan

   o Shriyans
   type = "i">
                            i. Smayan
      Smayan
                            ii. Arvan
      Aryan
                           iii. Shriyans
      Shriyans
   </body>
```

Here the css file is:

```
td{
    border : 3px solid rgb(128, 61, 61)
}
```

Inline and Block Elements:

```
This is a para which is a block element

google
Div is a block element and is not inline
This is a span which is an inline element yes it is inline
```

The CSS file was:

```
p{
    background-color: aquamarine;
}
a{
    background-color: bisque;
}
div{
    background-color: yellowgreen;
}
```

ID and classes

Video, Audio and Media

```
<!DOCTYPE html>
<html lang="en">
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Audio, video and media</title>
    <video src="video.mp4"controls width="445px" height="455" loop autoplay</pre>
poster="download.png"></video>
    <audio src="Michishirube English.mp3" controls autoplay></audio>
    <iframe width="560" height="315"</pre>
src="https://www.youtube.com/embed/GMGj8Izredg?si=K176SNEwzOWFvwEN" title="YouTube video
player" frameborder="0" allow="accelerometer; autoplay; clipboard-write; encrypted-media;
gyroscope; picture-in-picture; web-share" allowfullscreen></iframe>
    <iframe style="border-radius:20px"</pre>
src="https://open.spotify.com/embed/track/57o7RdOWikFpIlhYP3G4tj?utm_source=generator"
width="250" height="152" frameBorder="0" allowfullscreen="" allow="autoplay; clipboard-write;
encrypted-media; fullscreen; picture-in-picture" loading="lazy"></iframe>
```



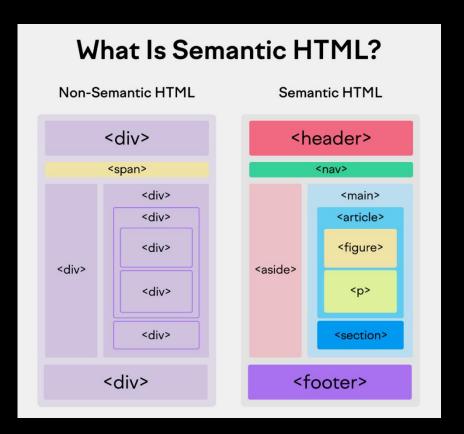
HTML Semantic Tags

Semantic tags add meaning to your HTML. They tell both the browser and the developer what kind of content is being presented.

Here are some of the key semantic tags you must know about:

- 1. <header>: Used to represent the top section of a web page, often containing headings, logos, and navigation.
- 2. <nav>: Signifies a navigation menu on a web page.
- 3. <article>: Indicates a self-contained piece of content, such as a blog post or news article.
- 4. <section>: Represents a thematic grouping of content on a web page.
- 5. <aside>: Typically used for sidebars or content that is tangentially related to the main content.
- 6. <footer>: Represents the footer of a web page, usually containing copyright information and contact details.

- 7. <figure> and <figcaption>: Used for embedding images, diagrams, or charts, along with a caption.
- 8. <main>: Signifies the main content area of a web page.
- 9. <time>: Used to represent time-related information, like dates and times.



CSS

Types of CSS: 1. Inline CSS 2. Internal CSS

3. External CSS

CSS Selectors:

```
<!DOCTYPE html>
<html lang="en">
    <meta charset="UTF-8">
    <meta charset= 017-0 /
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>CSS Selectors</title>
    div p{
              background-color: brown !important;}
    .red{
         background-color: aqua;}
    #green{
        background-color: green;}
Universal Selector */
         margin: 0;
         padding: 0;}
    a:visited{
         color: yellow;}
    a:link{
         color: aliceblue;}
         color: blueviolet;}
    a:hover{
         background-color: indianred;}
    p:first-child{
         background-color: darkgoldenrod;}
                                                I am Selector
                                                  am a di
              I am first child
                                                Go to google
    <div class="selector">
         I am Selector
         I am a div
         I am a para inside of Div
    <div id="green">
         I am another div
              <a href="https://google.com">Go to google</a>
<a href="https://facebook2.com"></a>
```

Emmet Shortcuts:

Emmet Cheatsheet

Forms in HTML:

All types of forms

Labels for Inputs:

```
<!DOCTYPE html>
<html lang="en">
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Labels and Names</title>
    <form action="/this-project">
            <label for="username">Enter a username</label>
            <input type="text" name="username" id="username" placeholder="Enter your</pre>
                username">
            <label for="password">Enter your password</label>
            <input type="password" id="password" name="password" placeholder="password">
            <label for="color">Enter a color</label>
                                                             Enter a username Smayan
            <input type="color" id="color" name="color">
                                                             Enter your password .....
    </form>
                                                             Enter a color
```

Radio Buttons, List, Range Inputs and Text Area:

```
<!DOCTYPE html>
<html lang="en">
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Other inputs</title>
    <h2>More inputs!</h2>
   <form action="/forms.html" >
        <input type="checkbox" name="agree_tos" id="agree">
        <label for="agree">I agree to everything </label>
            <input type="radio" name="opt" id="S"v value="small size shirt">
            <label for="S">Small</label>
            <input type="radio" name="opt" id="M" value="medium size shirt">
            <label for="M">Medium</label>
            <input type="radio" name="opt" id="L" value="large size shirt">
            <label for="L">Large</label>
            <label for="">Please select an Entree</label>
            <select name="mean" id="mean">
                <option value="Fish">Fish</option>
                <option value="Veg" selected> Vegetarian</option>
                <option value="Chicken">Chicken</option>
            <label for="cheese">Amount of Cheese:</label>
            <input type="range" id="cheese" min="1" max ="100" name="cheese_level">
            <label for="req">Any special requests?</label>
            <textarea name="spl_req" id="req" cols="40" rows="15" placeholder="enter whatever</pre>
special requests you have in here!"></textarea>
        <button>Submit!
```

More inputs!

| ☐ I agree to everythin | ıg | | | |
|-------------------------|---------------------|------------------|-------------|-------|
| O Small O Medium | O Large | | | |
| Please select an Entree | Vegetarian ✓ | | | |
| Amount of Cheese: | | | | |
| | enter whatever | special requests | you have in | here! |
| Any special requests? | | | | , |
| Submit! | | | | |

Fonts in CSS:

```
h1{
    font-family: monospace;
    text-transform: uppercase;
    text-align: center;
    font-weight: 100;
    font-size: 40px;
    text-decoration: underline plum wavy;
    letter-spacing: 20px;
}
```



Clear List

Add Todo

Font Managing in CSS:

<u>Ex 9:</u>

HTML:

```
<!DOCTYPE html>
<html lang="en">
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Document</title>
   <link rel="stylesheet" href="style.css">
<body>
   <h1>Todos</h1>
                                                     Todos
 Walk Chickens
 Clean Out Coop

    Walk Chickens

 Collect Chicken Eggs

    Clean Out Coop

 Incubate Chicken Eggs

    Collect Chicken Eggs

 Hatch New Chickens!

    Incubate Chicken Eggs

    Hatch New Chickens!

<button id="clear">Clear List
<button>Add Todo</putton>
```

CSS

```
li{
    color: blue;
}
.done{
    color: grey;
}
#clear{
    background-color: red;
    color: white;
}
```

EX 10: HTML:

```
<a href="/home">Home</a>
    <a href="/contact">Contact</a>
    <a href="/about">About</a>
   I like to eat <a href="/popcorn">popcorn</a> and <a href="/donuts">donuts</a>
 I hate eating <a href="/pickles">pickles</a> and <a href="/beets">beets</a>
CSS:
header a {
                                                                Home Contact About
    font-size: 30px;
                                                                I like to eat popcorn and donuts
                                                                I hate eating pickles and beets
#dislikes a{
   color: red;
    font-weight: bold;
                                                  On Hover:
                                                                 Home Contact About
a:hover, #dislikes :hover{
                                                                 I like to eat popcorn and donuts
   background-color: aqua;
   color: black;
                                                                 I hate eating pickles and beets
a:active{
                                                                 Home Contact About
    background-color: orange !important;
                                                    On Click:
                                                                 I like to eat popcorn and donuts
a:nth-of-type(2){
    background-color: rgba(86, 176, 150, 0.793);
                                                                 I hate eating pickles and beets
```

CSS Specificity:

Specificity is how the browser decides which rules to apply when multiple rules could apply when multiple rules could apply to the same element.

Usually higher order element selecters have higher selectivity.

Specificity Calculator: https://specificity.keegan.st