

Report Week2 Day 2

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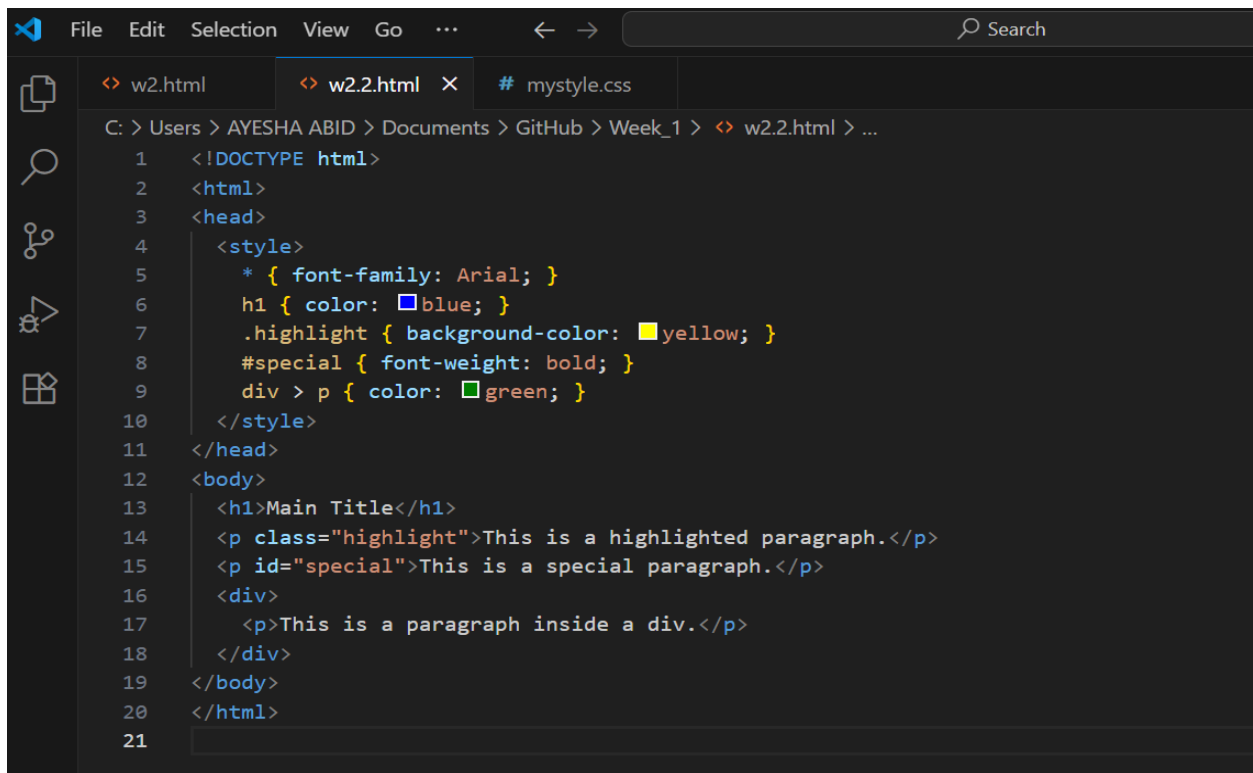
Task: Learning Selectors, Colors, Typography, Units

Selectors:

CSS selectors are used to find or select the HTML elements we want to style.

Categories:

- Simple selectors (select elements based on name, id, class)
- Combinator selectors (select elements based on a specific relationship between them)
- Pseudo-class selectors (select elements based on a certain state)
- Pseudo-elements selectors (select and style a part of an element)
- Attribute selectors (select elements based on an attribute or attribute value)



```
File Edit Selection View Go ... Search
w2.html w2.2.html x # mystyle.css
C: > Users > AYESHA ABID > Documents > GitHub > Week_1 > w2.2.html > ...
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <style>
5     * { font-family: Arial; }
6     h1 { color: blue; }
7     .highlight { background-color: yellow; }
8     #special { font-weight: bold; }
9     div > p { color: green; }
10  </style>
11 </head>
12 <body>
13   <h1>Main Title</h1>
14   <p class="highlight">This is a highlighted paragraph.</p>
15   <p id="special">This is a special paragraph.</p>
16   <div>
17     <p>This is a paragraph inside a div.</p>
18   </div>
19 </body>
20 </html>
21
```

Colors:

1.Named Colors

- Predefined names like red, blue, green, purple, etc.
- Easy to remember but limited in variety.
- Example: color: red;

2.Hexadecimal Colors

- A 6-digit code starting with #.
- Represents **Red**, **Green**, and **Blue** using hex (00–FF = 0–255).
- Example:

#FF5733 means:

- Red = FF (255)
- Green = 57 (87)
- Blue = 33 (51)

Bright reddish-orange color.

3.RGB (Red, Green, Blue)

- Written as: rgb(R, G, B)
- Values range from **0** to **255** for each color.
- Example: rgb(255, 0, 0) is pure red

4. RGBA (Red, Green, Blue, Alpha)

- Same as RGB but includes **Alpha** (opacity).
- Alpha value ranges from **0** (fully transparent) to **1** (fully opaque).
- Example: rgba(255, 0, 0, 0.5) = semi-transparent red

5. HSL (Hue, Saturation, Lightness)

- hsl(H, S%, L%)

Hue: Angle on the color wheel (0–360)

0 = red, 120 = green, 240 = blue

Saturation: Color intensity (0% = gray, 100% = full color)

Lightness: Brightness (0% = black, 100% = white)

```
w2.html w2.2.html # mystyle.css
C: > Users > AYESHA ABID > Documents > GitHub > Week_1 > w2.2.html > html > body > p.rgb
1  <!DOCTYPE html>
2  <html>
3  <head>
4    <style>
5      h1 { color: #3498db; }
6      p.name { color: red; }
7      p.rgb { color: rgb(0, 128, 0); }
8      p.rgba { background-color: rgba(255, 0, 0, 0.2); }
9      p.hsl { color: hsl(120, 100%, 25%); }
10   </style>
11 </head>
12 <body>
13   <h1>Color Examples</h1>
14   <p class="name">Named color</p>
15   <p class="rgb">RGB color</p>
16   <p class="rgba">RGBA with transparency</p>
17   <p class="hsl">HSL color</p>
18 </body>
19 </html>
20
```

Units:

Units define measurements for size, spacing, etc.

Absolute units:

- px (pixels), pt (points), cm, in

Relative units:

- em (relative to parent font size)
- rem (relative to root font size)
- % (relative to parent)
- vw, vh (relative to viewport width/height)

```
e Edit Selection View Go ... ← → Search
<> w2.html <> w2.2.html ● # mystyle.css
C: > Users > AYESHA ABID > Documents > GitHub > Week_1 > <> w2.2.html > ...
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <style>
5 .px { font-size: 20px; }
6 .em { font-size: 2em; }
7 .rem { font-size: 1.5rem; }
8 .percent { width: 80%; background: lightgray; }
9 .vw { font-size: 5vw; }
10 </style>
11 </head>
12 <body>
13 <p class="px">This is 20px</p>
14 <p class="em">This is 2em</p>
15 <p class="rem">This is 1.5rem</p>
16 <div class="percent">80% width</div>
17 <p class="vw">Font size is 5vw</p>
18 </body>
19 </html>
20 |
```

Typography:

font-family: Font style (Arial, Georgia)

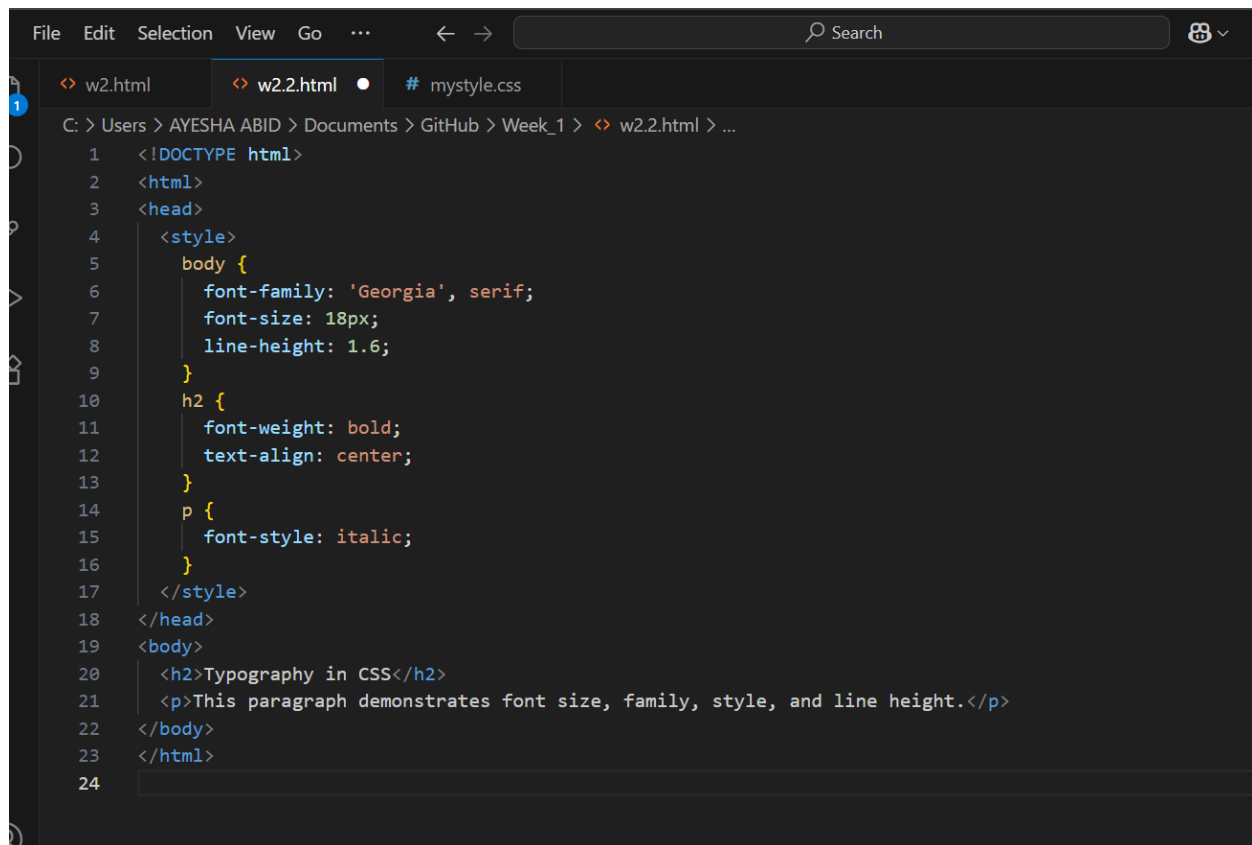
font-size: Size of text (16px, 1em)

font-weight: Thickness (normal, bold, 100–900)

font-style: Italic or normal

text-align: Alignment (left, center, right)

line-height: Line spacing

A screenshot of a code editor window with a dark theme. The title bar shows 'File Edit Selection View Go ...' and a search bar. The editor has three tabs: 'w2.html', 'w2.2.html' (active), and '# mystyle.css'. The active tab shows the following code:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <style>
5     body {
6       font-family: 'Georgia', serif;
7       font-size: 18px;
8       line-height: 1.6;
9     }
10    h2 {
11      font-weight: bold;
12      text-align: center;
13    }
14    p {
15      font-style: italic;
16    }
17  </style>
18 </head>
19 <body>
20   <h2>Typography in CSS</h2>
21   <p>This paragraph demonstrates font size, family, style, and line height.</p>
22 </body>
23 </html>
24
```

Conclusion:

CSS provides powerful tools to control the style and layout of web pages through selectors, color formats, typography, and measurement units. I have learned these concepts through w3schools, scrimba and youtube tutorials and mastery of each helps create visually engaging, accessible, and consistent user interfaces.