# **Training Day 10 Report**

8 July 2025

# **CSS Colors & Fonts**

#### **CSS COLORS:**

CSS offers several ways to define and apply color to elements, allowing you to control the look of text, backgrounds, borders, and more.

#### 1. Named Colors

- CSS has 147 predefined named colors.
- These are human-readable names like:

red, blue, green, black, white, yellow, orange, gray, navy, aqua, lime, etc.

```
Example:
```

```
h1 {
  color: red;
}
```

- Advantage: Easy to remember and write.
- Limitation: Limited to predefined names.

#### 2. HEX Codes

- HEX (Hexadecimal) values represent the intensity of Red, Green, and Blue (RGB).
- Format: #RRGGBB, where each pair (RR, GG, BB) is a value from 00 to FF (0 to 255 in decimal).

#### Syntax:

```
selector {
  color: #ff0000; /* Red */
}
```

#### **Common HEX Examples:**

Color	HEX Code
White	#ffffff
Black	#000000
Red	#ff0000
Green	#00ff00
Blue	#0000ff

**Short HEX**: If all pairs are the same, it can be shortened.

```
#ffffff → #fff
#000000 → #000
```

#### 3. RGB Values

- RGB stands for Red, Green, Blue.
- Values range from 0 (none) to 255 (full intensity).
- Offers precise control over color.

# Syntax:

```
selector {
  color: rgb(255, 0, 0); /* Red */
}
```

Color	RGB Value
White	rgb(255, 255, 255)
Black	rgb(0, 0, 0)

RGB is useful when fine-tuning color shades.

#### 4. RGBA (RGB + Alpha)

Adds transparency/opacity to RGB.

Alpha values range from 0.0 (fully transparent) to 1.0 (fully opaque).

#### Syntax:

```
selector {
  background-color: rgba(255, 0, 0, 0.5); /* Semi-transparent red */
}
```

Useful for overlays, backgrounds, and design effects.

# **CSS Font Styling**

Font styling is essential for controlling the appearance of text and improving readability and aesthetics.

#### font-family:

- Specifies the font of the text.
- Always list multiple fonts for fallback.
- Fonts with spaces must be in quotes.

#### Syntax:

```
p {
  font-family: "Arial", "Helvetica", sans-serif;
}
```

Good practice to end with a generic font family (serif, sans-serif, monospace).

#### font-size:

Defines how big or small the text appears.

#### **Units used:**

• px: fixed pixel size

• em: relative to parent size

• rem: relative to root <html> font size

• %: relative to parent element

### Syntax:

```
h1 {
  font-size: 36px;
}
p {
  font-size: 1.2em;
}
```

# font-weight:

-Determines how thick or thin the font is.

Value	Meaning
normal	Default thickness
bold	Makes text bold
lighter	Lighter than normal
100–900	Numeric scale of weight

# Syntax:

```
strong {
  font-weight: bold;
}
.light {
  font-weight: 300;
}
```

# font-style:

Used to make text italic or oblique.

#### Values:

- normal
- italic
- oblique

## Example:

```
em {
font-style: italic;
}
Example (HTML + CSS):
<!DOCTYPE html>
<html>
<head>
 <style>
  body {
  background-color: #f9f9f9;
  font-family: "Segoe UI", Tahoma, Geneva, Verdana, sans-serif;
  font-size: 16px;
  color: #333;
  }
  h1 {
  color: #ff4500;
  font-size: 36px;
  font-weight: bold;
  }
  p {
  color: rgb(60, 60, 60);
  font-size: 18px;
  }
  .highlight {
  background-color: rgba(255, 255, 0, 0.3);
  font-weight: lighter;
 }
</style>
</head>
<body>
```

<h1>CSS Colors & Fonts Demo</h1>
This paragraph uses default styles.
This is a highlighted text using RGBA background and lighter font.
</body>

# TABLE:

</html>

Feature	Property	Example
Text Color	color	color: red;, color: #fff;
Background	background-color	background-color: rgb(0,0,0);
Font Family	font-family	font-family: Arial, sans-serif;
Font Size	font-size	font-size: 20px;
Font Weight	font-weight	font-weight: bold;
Font Style	font-style	font-style: italic;