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***TASK TITLE Selectors, Colors, Units, and Typography***

# **🎨 CSS Essentials: Selectors, Colors, Units & Typography**

## 🧩 1. **Selectors**

Selectors decide **which HTML elements** will be styled.

* 🔹 element – Targets all elements of that type (e.g., p, h1)
* 🔸 .class – Selects elements with a specific **class**
* 🔹 #id – Selects an element with a specific **ID**
* 🔗 **Combinators**:
  + div p – All <p> inside <div>
  + div > p – Only direct child <p> of <div>
  + div + p – The <p> directly after a <div>
* 🧪 **Attribute selectors**: [type="text"]
* 🧙 **Pseudo-classes**: :hover, :first-child, :nth-child()
* 🌟 **Pseudo-elements**: ::before, ::after

## 🎨 2. **Colors**

Define color using different formats for flexibility and style:

* 🔵 **Named colors**: red, blue, green
* 💠 **Hex codes**: #ff0000 (red)
* 🟢 **RGB**: rgb(0, 255, 0)
* 🔴 **RGBA**: rgba(255, 0, 0, 0.5)
* 🌈 **HSL/HSLA**: hsl(240, 100%, 50%)

📌 **Common usage**:

* color: Text color
* background-color: Background fill
* border-color: Border color

## 📏 3. **Units**

CSS units define the **size** and **spacing** of elements.

### 📐 Absolute Units:

* px – Pixels (most common)
* pt – Points (print use)
* cm, mm, in – Physical sizes (less used in web)

### ⚖️ Relative Units:

* % – Relative to parent
* em – Relative to element’s font size
* rem – Relative to root font size
* vw / vh – % of viewport width/height
* fr – Fraction of space in CSS Grid

## ✍️ 4. **Typography**

Typography styles the **appearance of text**:

* 🆎 font-family: Type of font (e.g., Arial, Georgia)
* 🔠 font-size: Size of the text (e.g., 16px, 1.2em)
* 💪 font-weight: Thickness (normal, bold, 400, 700)
* ✨ font-style: normal or italic
* 📏 line-height: Space between lines
* ↔️ letter-spacing: Space between letters
* 📍 text-align: left, center, right, justify
* 🔁 text-transform: uppercase, lowercase, capitalize
* ➖ text-decoration: underline, line-through, etc.