**Color**

CSS supports both named colors and colors described by a numeric value. Colors in CSS can be described in 3 different ways:

* *Named colors* — English words that describe colors, also called *keyword colors*
* *RGB* — numeric values that describe a mix of red, green, and blue
* *HSL* — numeric values that describe a mix of hue, saturation, and lightness

1. **Hexadecimal**

Colors specified using this system are called *hex colors*. A hex color begins with a hash character (#) which is followed by three or six characters. The characters represent values for red, blue and green.

darkseagreen: #8FBC8F  
sienna:        #A0522D  
saddlebrown:  #8B4513

To represent 10-15, we use A-F. [Here](https://developer.mozilla.org/en-US/docs/Web/CSS/color_value) is a list of many different colors and their hex values.

1. **RGB Colors**

There is another syntax for representing RGB values, referred to as “RGB value” or just “RGB”.

h1 {  
  color: rgb(23, 45, 23);  
}

Each of the three values represents a color component, and each can have a decimal number value from 0 to 255. The order is red-green-blue

1. **Hue, Saturation, and Lightness**

There’s another equally powerful system in CSS called the hue-saturation-lightness color scheme, abbreviated as *HSL*. The syntax for HSL is similar to RGB. However, the order of values are

hue degree (0-360) ; saturation percentage ; lightness percentage

A screenshot of a cell phone

Description automatically generated with medium confidencecolor: hsl(120, 60%, 70%);

**Saturation**: intensity of color (more rich/grayer)

**Lightness**: brightness 🡪 HSL will make changing colors easier

**Hue**: Color

1. **Opacity and Alpha**

All of the colors we’ve seen so far have been non-transparent. To use opacity in the HSL color scheme, use hsla instead of hsl, and four values instead of three.

color: hsla(34, 100%, 50%, 0.1);

The fourth value is the *alpha.* This last value is sometimes called opacity. Alpha is a decimal number from zero (completely transparent) to one (thick).

The RGB color scheme has a similar syntax for opacity, rgba

color: rgba(234, 45, 98, 0.33);