Color in CSS

Color can really bring your pages to life.

●● Color terminology, as there are some terms that are very helpful to understand when it comes to picking colors

●● Contrast, and ensuring that your text is readable

●● Background colors for behind either your entire page or parts of a page

Foreground Color

```css
/* color name */
h1 {
  color: DarkCyan;}
/* hex code */
h2 {
  color: #ee3e80;}
/* rgb value */
p {
  color: rgb(100,100,90);}
```

RESULT

Marine Biology

The Composition of Seawater

Almost anything can be found in seawater. This includes dissolved materials from Earth's crust as well as materials released from organisms. The most important components of seawater that influence life forms are salinity, temperature, dissolved gases (mostly oxygen and carbon dioxide), nutrients, and pH. These elements vary in their composition as well as in their influence on marine life.

RGB VALUES
These express colors in terms of how much red, green and blue are used to make it up. For example: rgb(100,100,90)

HEX CODES
These are six-digit codes that represent the amount of red, green and blue in a color, preceded by a pound or hash # sign. For example: #ee3e80

COLOR NAMES
There are 147 predefined color names that are recognized by browsers. For example: DarkCyan

Background Color

```css
body {
  background-color: rgb(200,200,200);}
h1 {
  background-color: DarkCyan;}
h2 {
  background-color: #ee3e80;}
p {
  background-color: white;}
```
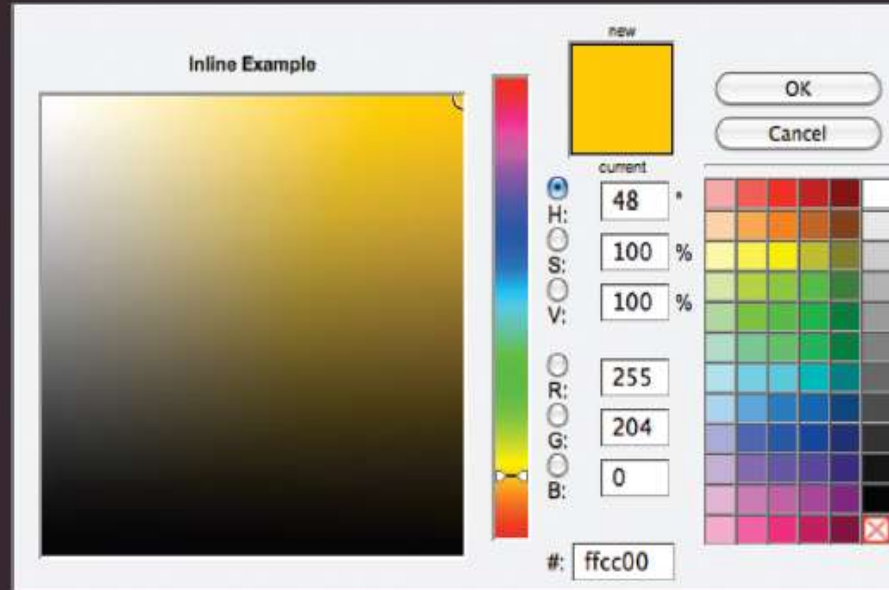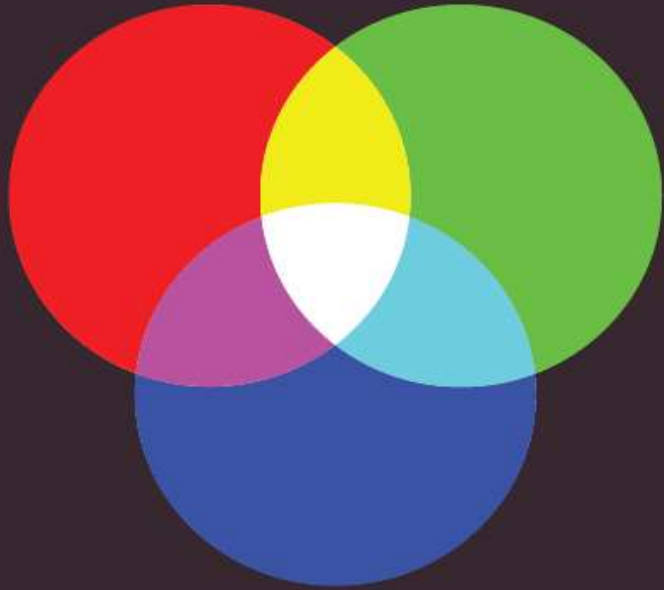
RESULT

Marine Biology

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Understanding Color

Color picking tools are available in image editing programs like Photoshop and GIMP. You can see the RGB values specified next to the radio buttons that say R, G, B.

The hex value is provided next to the pound or hash # symbol. There is also a good color picking tool at: colorschemedesigner.com

RGB VALUES

Values for red, green, and blue are expressed as numbers between 0 and 255.

`rgb(102,205,170)`

This color is made up of the following values:
102 red
205 green
170 blue

HEX CODES

Hex values represent values for red, green, and blue in hexadecimal code.

`#66cdaa`

The value of the red, 102, is expressed as 66 in hexadecimal code. The 205 of the green is expressed as `cd` and the 170 of the blue equates to `aa`.

COLOR NAMES

Colors are represented by predefined names. However, they are very limited in number.

`MediumAquaMarine`

There are 147 color names supported by browsers (this color is `MediumAquaMarine`). Most consider this to be a limited color palette, and it is hard to remember the name for each of the colors so (apart from white and black) they are not commonly used.
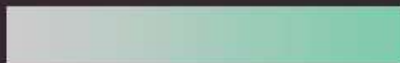
HUE

Hue is near to the colloquial idea of color. Technically speaking however, a color can also have saturation and brightness as well as hue.

SATURATION

Saturation refers to the amount of gray in a color. At maximum saturation, there would be no gray in the color. At minimum saturation, the color would be mostly gray.

BRIGHTNESS

Brightness (or "value") refers to how much black is in a color. At maximum brightness, there would be no black in the color. At minimum brightness, the color would be very dark.

Contrast

LOW CONTRAST

HIGH CONTRAST

MEDIUM CONTRAST

CSS 3: Opacity
opacity, rgba

```
p.one {
  background-color: rgb(0,0,0);
  opacity: 0.5;}
p.two {
  background-color: rgb(0,0,0);
  background-color: rgba(0,0,0,0.5);}
```
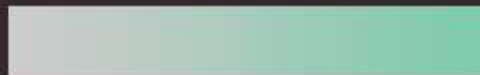
RESULT

RESULT IN OLDER BROWSER

HUE

Hue is the colloquial idea of color. In HSL colors, hue is often represented as a color circle where the angle represents the color, although it may also be shown as a slider with values from 0 to 360.

SATURATION

Saturation is the amount of gray in a color. Saturation is represented as a percentage. 100% is full saturation and 0% is a shade of gray.
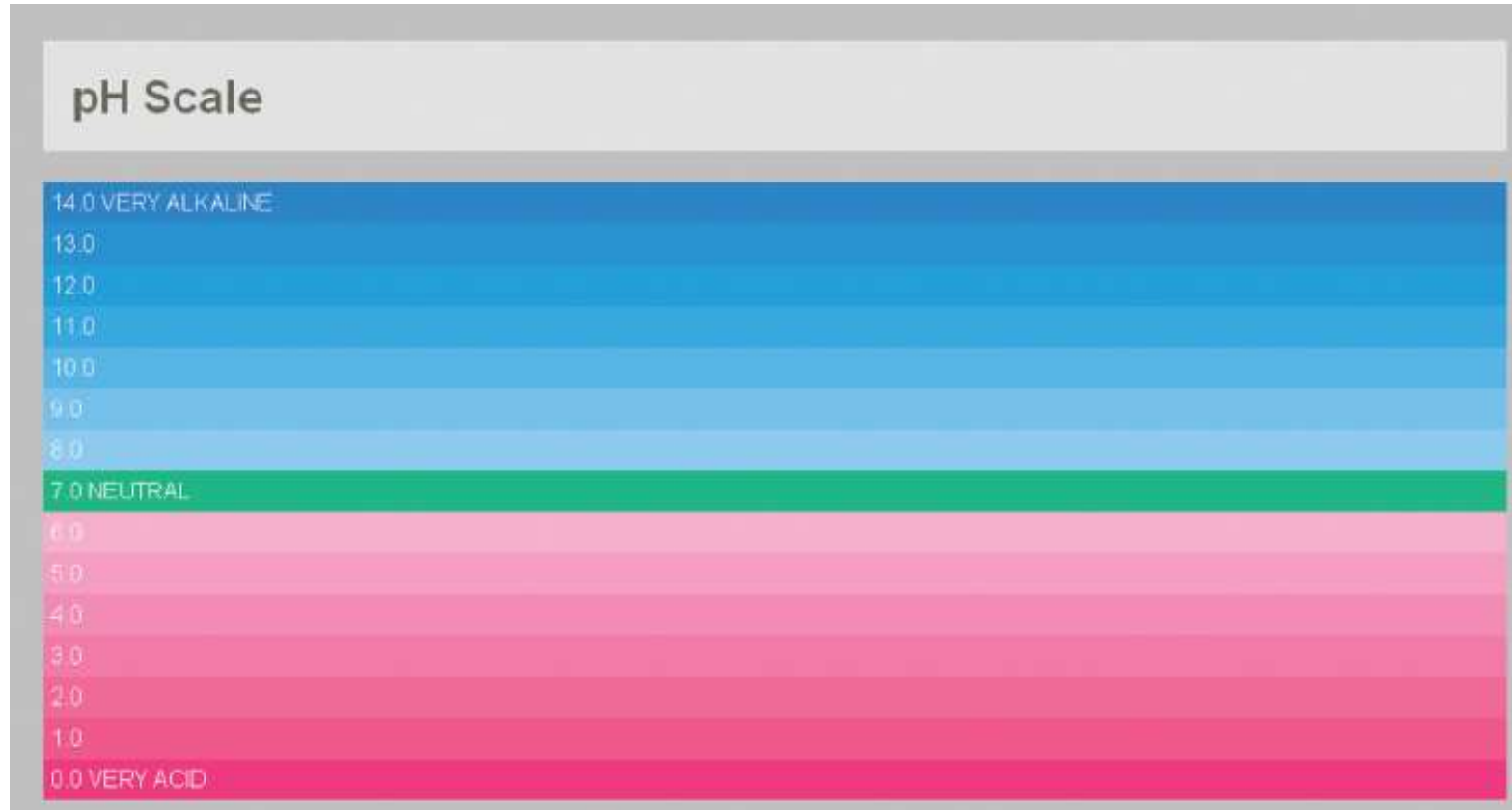
LIGHTNESS

Lightness is the amount of white (lightness) or black (darkness) in a color. Lightness is represented as a percentage. 0% lightness is black, 100% lightness is white, and 50% lightness is normal. Lightness is sometimes referred to as *luminosity*.

Exercise

pH Scale

14.0 VERY ALKALINE
13.0
12.0
11.0
10.0
9.0
8.0
7.0 NEUTRAL
6.0
5.0
4.0
3.0
2.0
1.0
0.0 VERY ACID

Add CSS style

Add CSS style

Registration

Personal Information

Name:
Surname:
E-mail:
Gender: ● Male ○ Female
Your Linkdn:
Your Status: Student ▾
Upload your Photo Choose File No file chosen
Upload

Career Info

Your position

What is Your hobby?
☐ Music ☐ Football ☐ Other
Something about you.

Max lenght 500.

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