

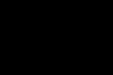
HTML & CSS

طراحی صفحات وب

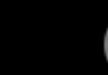
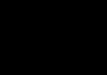
div Tag

Divides the page into smaller logical containers.

```
1 <!DOCTYPE HTML>
2 <html>
3   <head>
4     <title>"div" Tag!</title>
5   </head>
6   <body>
7     <div>
8       <p>My first paragraph in my first div.</p>
9       <p>Another paragraph just to see how it looks!</p>
10      </div>
11      <div style="background-color: black; color: white;">
12        <p>What about this one?</p>
13        <p>This has a background color :)</p>
14      </div>
15      <p style="background-color: black; color: white;">And here
16        we have 2 paragraphs with their own CSS properties</p>
17      <p style="background-color: black; color: white;">Both of
18        them have same styles, but notice the difference</p>
19    </body>
20 </html>
```



file:///Users/alireza/HTML_Class/02/div.html



My first paragraph in my first div.

Another paragraph just to see how it looks!

What about this one?

This has a background color :)

And here we have 2 paragraphs with their own CSS properties

Both of them have same styles, but notice the difference

`style` Attribute

Inline CSS Styling Property

- Starts with a CSS Property name (background-color)
- Takes the CSS Property value after `:` (black)
- Divides Properties with `;`

```
11  <div style="background-color: black; color: white;">
12    <p>What about this one?</p>
13    <p>This has a background color :)</p>
14  </div>
```

Background Color CSS Property

`background-color`

- Sets the background color of the element. (Our div tag here.)
- Takes a color as value.
- Color can be in RGB Hex Format. (#000000)
- Color can be a name. (black)

```
11 <div style="background-color: black; color: white;">
12 <p>What about this one?</p>
13 <p>This has a background color :)</p>
14 </div>
```

Text Color CSS Property

`color`

- Sets the text color of the element's content. (Our div tag here.)
- Takes a color as value.
- Color can be in RGB Hex Format. (#ffffff)
- Color can be a name. (white)

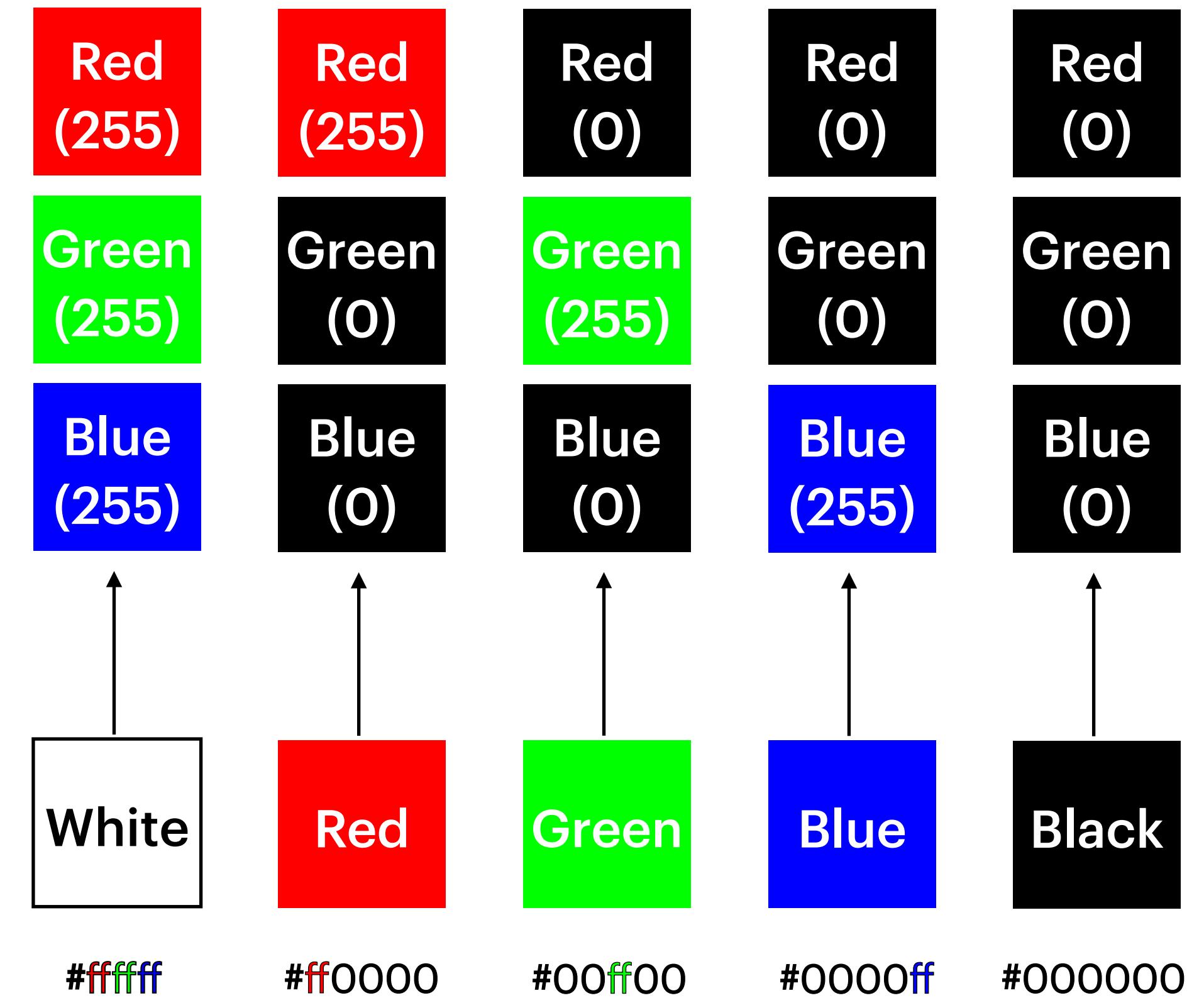
```
11 <div style="background-color: black; color: white;">
12 <p>What about this one?</p>
13 <p>This has a background color :)</p>
14 </div>
```

RGB Color, Hex Representation

How Web Colors Work?

- Created from compound of 3 Colors.
- Each color has a value between 0 to 256.
- Each color is converted to hexadecimal value.
- The compound oof the 3 hexes represent a color.

```
11   <div style="background-color: □#000000; color: ■#ffffff;">
12   |   <p>What about this one?</p>
13   |   <p>This has a background color :)</p>
14   </div>
```



Font Size CSS Property

‘font-size’

- Sets the font size of the element’s content. (Our div tag here.)
- Takes a number and a unit as value. (20px)



```
1 <!DOCTYPE HTML>
2 <html>
3   <head>
4     <title>Font Size!</title>
5   </head>
6   <body>
7     <div>This division has no style.</div>
8     <div style="font-size: 20px;">
9       This division has styles
10    </div>
11  </body>
12 </html>
```



|



Users/alireza/HTML_Class/02/font-size.html



This division has no style.
This division has styles

Padding CSS Property

‘padding’

- Sets the spacing between the element border and element content.
- Takes a number and a unit as value. (10px)



```
1 <!DOCTYPE HTML>
2 <html>
3   <head>
4     <title>Padding</title>
5   </head>
6   <body>
7     <div style="background-color: #000000; color: #ffffff;">
8       This division has no padding.
9     </div>
10    <div style="padding: 10px; background-color: #0000ff; color:
#ffffff;">
11      This division has padding.
12    </div>
13  </body>
14 </html>
```



/Users/alireza/HTML_Class/02/padding.html



This division has no padding.

This division has padding.

Margin CSS Property

‘margin’

- Sets the spacing between the element border and outside content.
- Takes a number and a unit as value. (10px)

```
1 <!DOCTYPE HTML>
2 <html>
3   <head>
4     <title>Margin</title>
5   </head>
6   <body>
7     <div style="background-color: #000000; color: #ffffff;">
8       This division has no margin.
9     </div>
10    <div style="margin: 10px; background-color: #0000ff; color:
11      #ffffff;">
12      This division has margin.
13    </div>
14  </body>
15 </html>
```



///Users/alireza/HTML_Class/02/margin.html



This division has no margin.

This division has margin.

Margin vs. Padding

**Margin sets the spacing between the element borders and outside content;
Padding sets the spacing between the element borders and content inside the element.**



```
1 <!DOCTYPE HTML>
2 <html>
3
4 <head>
5   <title>Margin vs Padding</title>
6 </head>
7
8 <body>
9   <div style="background-color: #0000ff;">This element only has
  background color.</div>
10  <div style="padding: 10px; margin: 10px; background-color:
    #000000; color: #ffffff;">
11    This division has both margin and padding.
12  </div>
13  <div style="background-color: #0000ff;">This element only has
  background color.</div>
14 </body>
15
16 </html>
```



za/HTML_Class/02/margin-vs-padding.html



This element only has background color.

This division has both margin and padding.

This element only has background color.

Margin and Padding are shorthands

Both `margin` and `padding` properties are shorthands; They represent 4 values.

Padding Expanded

- Padding always represents 4 values.
- It can take 1, 2, or 4 values.
- It represents:
 - `padding-top`
 - `padding-right`
 - `padding-bottom`
 - `padding-left`

```
1 <!DOCTYPE HTML>
2 <html>
3
4 <head>
5   <title>Padding Shorthand</title>
6 </head>
7
8 <body>
9   <div style="background-color: #00ff00">
10     <div style="padding: 20px">
11       This div is using padding shorthand.
12     </div>
13     <div
14       style="padding-top: 20px; padding-right: 20px; padding-
15         bottom: 20px; padding-left: 20px;">
16       This div is not using padding shorthand.
17     </div>
18   </div>
19 </body>
20
21 </html>
```



za/HTML_Class/02/padding-shorthand.html



This div is using padding shorthand.

This div is not using padding shorthand.

Padding with 2 values.

- When `padding` has 2 values, It represents y and x axis.
- Y axis:
 - `padding-top`
 - `padding-bottom`
- X axis:
 - `padding-right`
 - `padding-left`

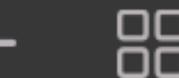
```
1 <!DOCTYPE HTML>
2 <html>
3
4 <head>
5     <title>Padding Shorthand</title>
6 </head>
7
8 <body>
9     <div style="background-color: #00ff00">
10         <div style="padding: 20px 5px;">
11             This div is using padding shorthand.
12         </div>
13         <div style="padding-top: 20px; padding-right: 5px;
14             padding-bottom: 20px; padding-left: 5px;">
15             This div is not using padding shorthand.
16         </div>
17     </div>
18
19 </html>
```



|



reza/HTML_Class/02/padding-2-values.html ↗



This div is using padding shorthand.

This div is not using padding shorthand.

Padding with 4 values.

- When `padding` has 4 values, It represents top, right, bottom, and left.

```
1 <!DOCTYPE HTML>
2 <html>
3
4 <head>
5   <title>Padding Shorthand</title>
6 </head>
7
8 <body>
9   <div style="padding: 20px 5px 10px 50px; background-color:
#00ff00">
10     This div is using padding shorthand.
11   </div>
12   <div style="padding-top: 20px; padding-right: 5px; padding-
bottom: 10px; padding-left: 50px; background-color: #00ffff">
13     This div is not using padding shorthand.
14   </div>
15
16 </body>
17
18 </html>
```

**Margin and Padding shorthands
are exactly the same.**

The Project

Let's make our project looks better with CSS.



Lizards!



Lizards (suborder Lacertilia) are a widespread group of squamate reptiles, with over 6,000 species, ranging across all continents except Antarctica, as well as most oceanic island chains. The group is paraphyletic as it excludes the snakes and Amphisbaenia; some lizards are more closely related to these two excluded groups than they are to other lizards. Lizards range in size from chameleons and geckos a few centimeters long to the 3 meter long Komodo dragon.

Read more on [Wikipedia!](#)