



Introduction, Using CSS, Selectors, Margin, Padding, Colors





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- CSS Syntax



What is CSS?

- CSS stands for Cascading Style Sheets
- It is a markup language that determines the style properties of HTML elements.
- Thanks to CSS, the properties of many elements can be changed at the same time with a single definition. While defining the skeleton and content of the page with HTML, it is formatted with CSS.

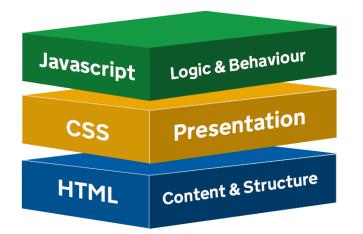




What is CSS?



CSS is presentation layer of a webpage while html is structure layer.

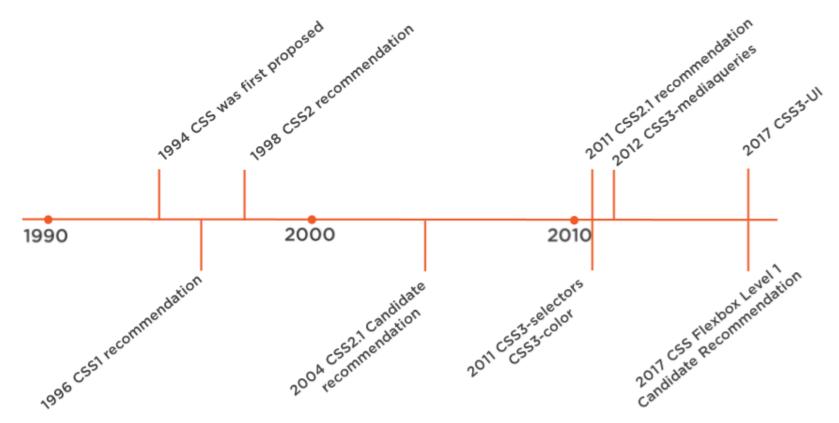






History of CSS?



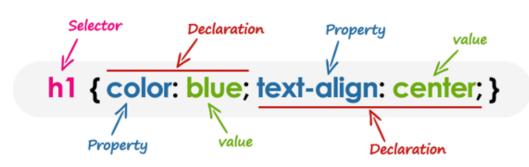


CLARUSWAY
WAY TO REINVENT YOURSELF

CSS Syntax

- In CSS, a declaration is the key-value pair of a CSS property and its value.
- Each declaration includes a CSS property name and a value, separated by a colon.

```
h1{
    color:blue;
    font-size: 12px;
}
```





CSS Properties



CSS supports more than 200 CSS properties. Here's a complete list.

https://www.hostinger.com/tutorials/css-cheat-sheet

Hello

<h1 style='background-color: blue'>CSS</h1>



Use of CSS



- ► Inline CSS
- Internal CSS
- External CSS
- Multiple Styles and Cascading Order



Inline CSS



- An inline style may be used to apply a unique style for a single element.
- ► To use inline styles, add the <style> attribute to the relevant element.

```
Inline)
```



Internal CSS



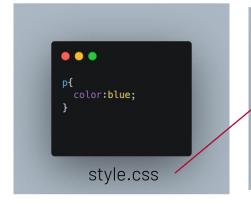
- An internal style sheet may be used if one single HTML page has a unique style.
- The internal style is defined inside the <style> element, inside the head section.



External CSS



- With an external style sheet, you can change the look of an entire website by changing just one file!
- ► Each HTML page must include a reference to the external style sheet file inside the link> element, inside the head section.



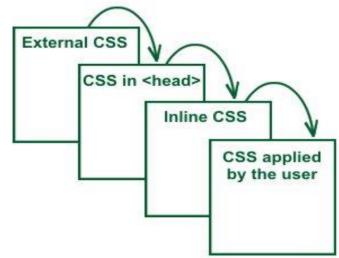


External CSS



- 1. Inline style (inside an HTML element)
- 2. External and internal style sheets (in the head section)
- 3. Browser default

So, an inline style has the highest priority, and will override external and internal styles and browser defaults.





Selectors in Css



```
Universal Selector ***
Element Selector
    . . .
                                       color:blue;
      color:blue;
iD Selector "#"
                                 Class Selector "."
                                      . . .
    #content {
                                      .main {
      color:blue;
                                       color:blue;
```



Element Selector



 An element selector uses element name to select the HTML element. A markup language defines the structure and presentation of raw text.

```
<!DOCTYPE html>
                                                            h1{
<html lang="en">
  <body>
                                                            font-size:25px;
   <h1>This is element selector</h1>
                                                            color:red;
  </body>
</html>
```



Universal Selector



► The universal selector (*) selects all HTML elements on the page.

```
margin:0;
padding:0;
font-family: 'Courier New', Courier, monospace;
```



Id Selector



The id selector uses id attribute to select the element in HTML file.

The id of an element must be unique in a page. A hash (#) character is used to select an element with a specific id.

```
<!DOCTYPE html>
                                                          #content{
<html lang="en">
                                                              color:red;
   This is Id selector
 </body>
</html>
```



Class Selector



The class selector uses class attribute to select all elements of that class in HTML file.

A period (.) character is used to select elements with a specific class.



CSS Comments



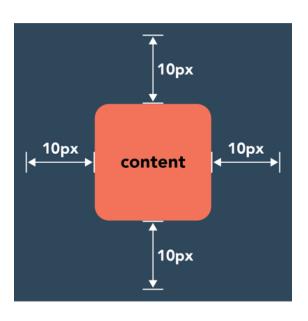
- The browser does not display comments, but with comments, we can place warnings, descriptions and other notes.
- Comments are also imported for debugging CSS. We can use comments for searching errors.
- CSS Comments can add the text between /* and */ characters.

```
/* This linis comment line */
p{
    color:yellow;
    border:2px solid red
}
```





CSS Margin

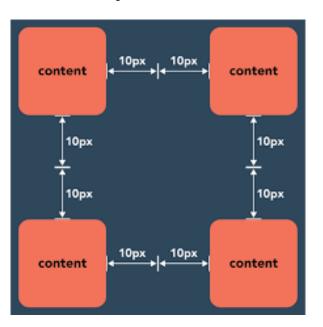




Margin



Margins are used to create space around elements, outside of any defined borders.



```
Box
#part1 {
    background-color: orange;;
   margin-bottom: 10px
                                                   Box
#part2 {
   background-color:greenyellow;
```

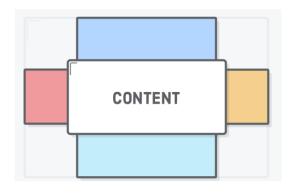


Margin



There are 4 different properties for setting the margin for each side of an element:

- margin-top
- margin-right
- margin-bottom
- margin-left



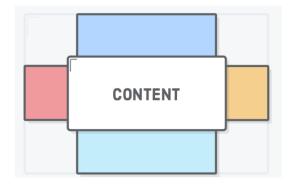






If 4 margin values are used, the order is top, right, bottom, left

- margin-top
- margin-right
- margin-bottom
- margin-left









If 4 margin values are used, the order is top, right, bottom, left

- margin-top
- margin-right
- margin-bottom
- margin-left

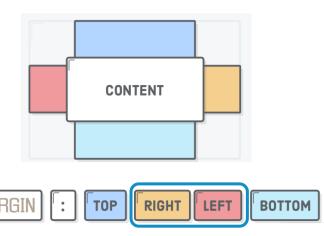
```
Box
#part1 -
   background-color: orange;
   margin:30px 10px 8px 25px ;-
#part2 {
   background-color:greenyellow;
                                                    Box
```





If 3 margin values are used, the order is top, right-left, bottom

- margin-top
- margin-right-left
- margin-bottom







If 3 margin values are used, the order is top, right, bottom, left

- margin-top
- margin-right-left
- margin-bottom

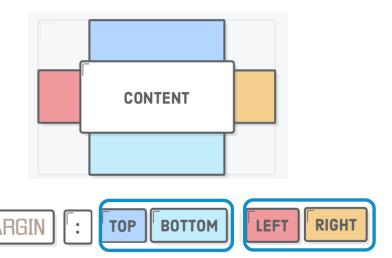
```
Box
.
#part1 {
   background-color: orange;
   margin:30px 10px
#part2 {
   background-color:greenyellow;
                                                      Box
```





If 2 margin values are used, the order is top-bottom, right-left,

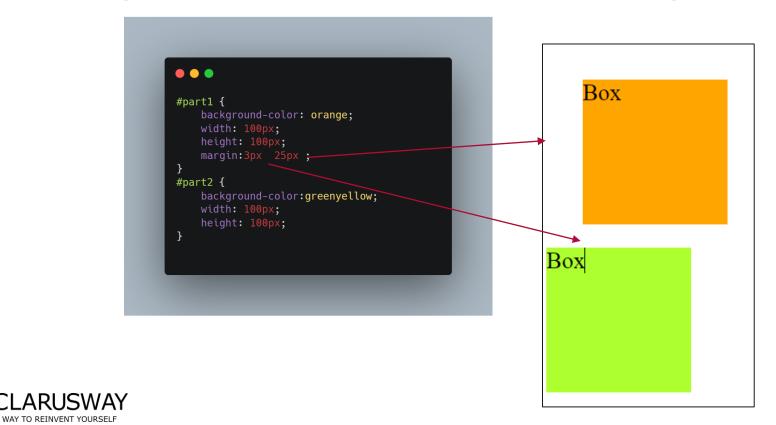
- margin-top-bottom
- margin-right-left







If 2 margin values are used, the order is top-bottom, right-left



Auto Value



The margin property can be set to auto. The browser will calculate the margin and horizontally center the element.

```
Box
#part1 {
   background-color: orange;;
   width: 100px;
   margin:auto;
                                                        Box
#part2 {
   background-color:greenyellow;
   width: 100px;
   height: 100px;
```





CSS Padding

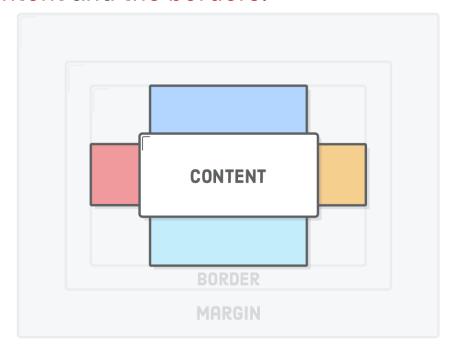




Padding



 The padding property is used to define space between the element's content and the borders.













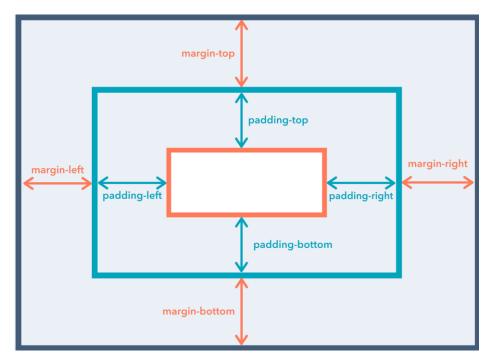


Padding



There are 4 different properties for setting the padding for each side of an element:

- padding -top
- padding -right
- padding -bottom
- padding -left





Padding



```
30px
                                                            Box
                                                       4рх
                                                                                 10 px
• • •
#part1 {
    background-color: orange;;
    width: 100px;
    height: 100px;
    padding:30px 10px 5px 4px;
                                                                   5рх
#part2 {
    background-color:greenyellow;
                                                           Box
    width: 100px;
    height: 100px;
```





Shorthand Property

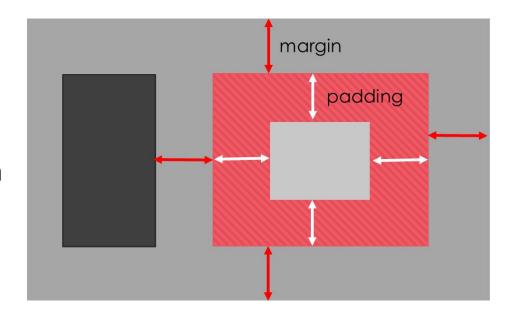


4 Padding Values



If 4 padding values are used, the order is top, right, bottom, left

- padding -top
- padding -right
- padding -bottom
- padding -left





4 Padding Values



If 4 padding values are used, the order is top, right, bottom, left



3 Padding Values



If 3 padding values are used, the order is top, right-left, bottom

- padding-top
- padding-right-left
- padding-bottom







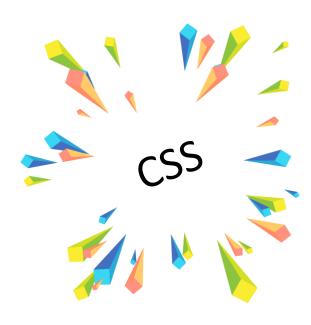
If 2 padding values are used, the order is top-bottom, right-left,

- padding -top-bottom
- padding -right-left











CSS Colors



Most used color values

- Pre-defined Colors
- ► RGB, RGBA
- HEX
- ► HSL, HSLA

Color	CSS Color Name	Hex Code #RPGGBB	Decimal Code (R,G,B)
	Red	#FF0000	rgb (255,0,0)
	Orange	#FFA500	rgb (255,165,0)
	Yellow	#FFFF00	rgb (255,225,0)
	Green	#008000	rgb (0,128,0)
	Cyan	#00FFFF	rgb (0,255,225)
	Blue	#0000FF	rgb (0,0,225)
	Purple	#800080	rgb (128,0,128)
	Pink	#FFCOCB	rgb (255,192,203)
	Gray	#808080	rgb (128,128,128)
	Brown	#A52A2A	rgb (165,42,42)



Pre-defined Colors



- A color can be defined by using a default color name
- CSS/HTML supports 140 standard color names.

```
#part1{background-color: blue;}
#part2{background-color: pink;}
#part3{background-color: yellow;}
#part4{background-color: Orange;}
#part5{background-color: green;}
```

```
Blue
Pink
Yellow
Orange
Green
```

https://www.w3.org/wiki/CSS/Properties/color/keywords



RGB Values



- A color can be defined with a RGB value.
- Each red, green, and blue parameter defines the intensity of the color between 0 and 255.



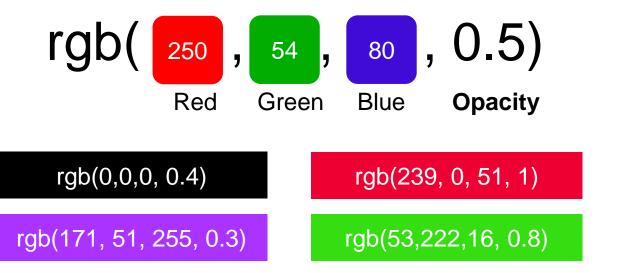
rgb(0,0,0) rgb(239, 0, 51) rgb(171, 51, 255) rgb(53,222,16)



RGBA Values



► RGBA color values are the RGB color values with an alpha channel that defines the opacity of a color.





Hex Values



- A color can be defined using a hexadecimal value
- The hexadecimal values must be between 00 and FF.







HSL, HSLA

ightness.

Saturation

- Hue, Saturation, Lightness (HSL)
- Hue is a degree on the color wheel from 0 to 360. 0 is red, 120 is green, 240 is blue.
- Saturation is a percentage value; 0% means a shade of gray and 100% is the full color.
- ► Lightness is also a percentage; 0% is black, 100% is white.
- HSLA(hue, saturation, lightness, alpha)







HSL, HSLA



hsl(120,100%, 0%)

#00FF00

Hue Saturation

Lightness

hsl(0,100%,50%)

rgb(255, 0, 0)



THANKS!