





CSS stands for Cascading Style Sheets

CSS describes how HTML elements are to be displayed on screen.

External stylesheets are stored in CSS files











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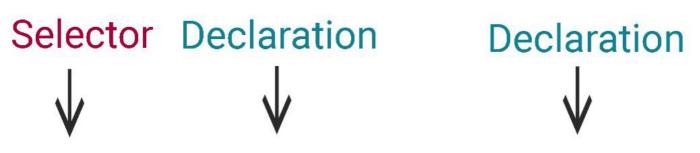
External stylesheets are stored in CSS files











h1 {color: red; font-size: 17px;}













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In CSS, selectors are patterns used to select the element(s) you want to style.

```
.ctx < = > selects all elements with class="ctx"
```









In CSS, selectors are patterns used to select the element(s) you want to style.

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CSS Box Model



Margin

Padding Content









Margin

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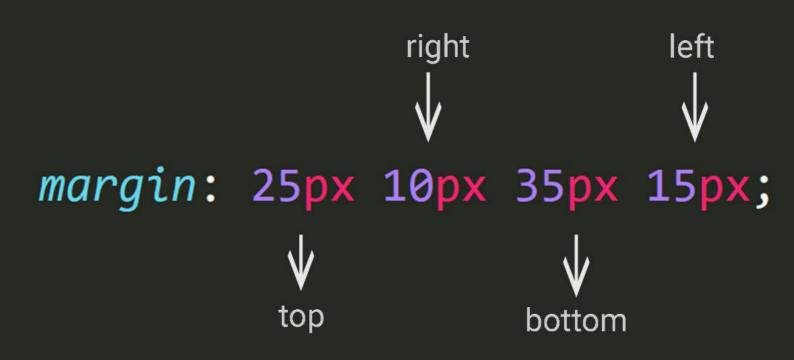


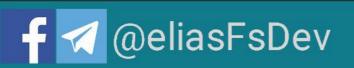






The CSS margin properties are used to create space around elements, outside of any defined borders.



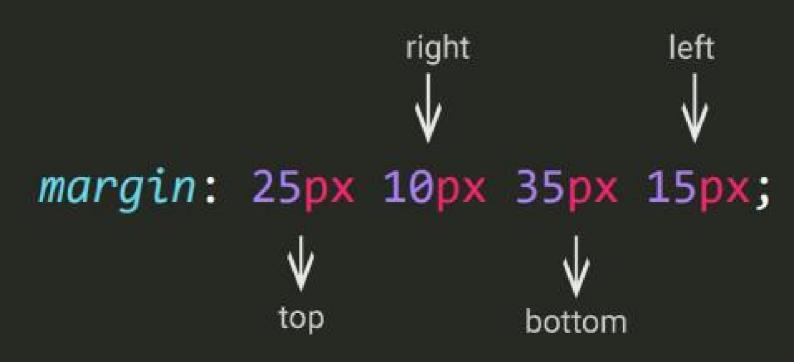








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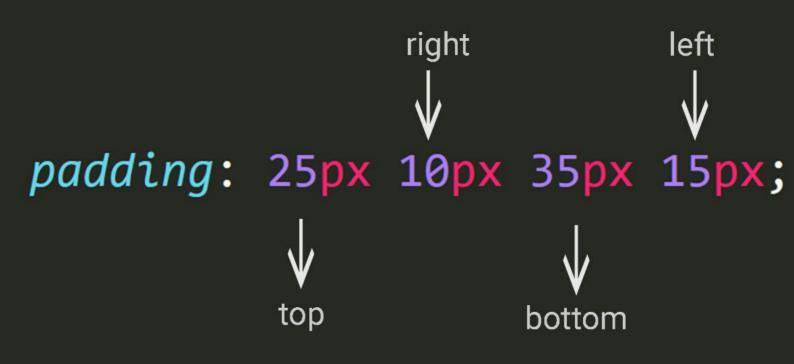








The CSS padding properties are used to generate space around an element's content, inside of any defined borders.



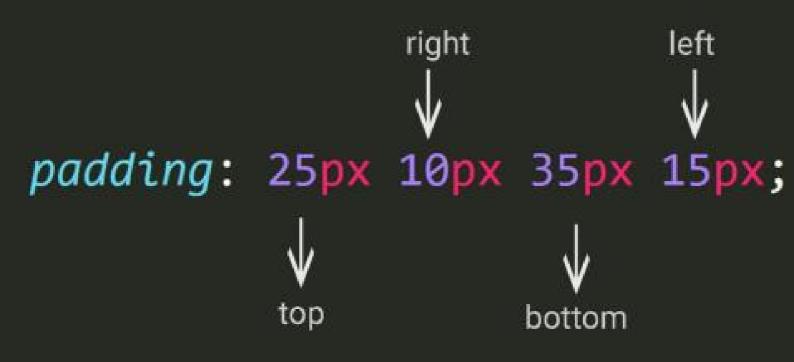








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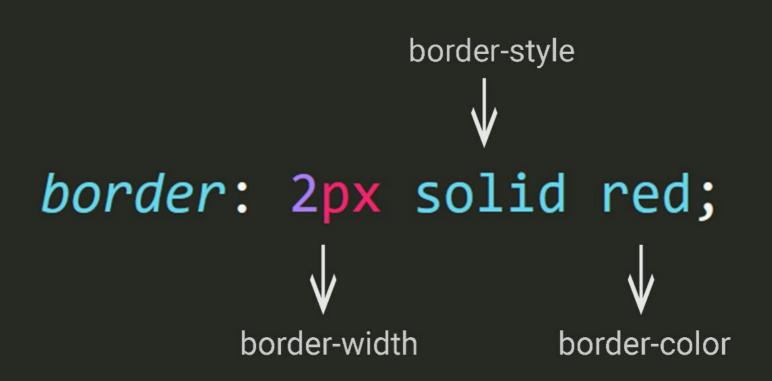








The CSS border properties allow you to specify the style, width, and color of an element's border.



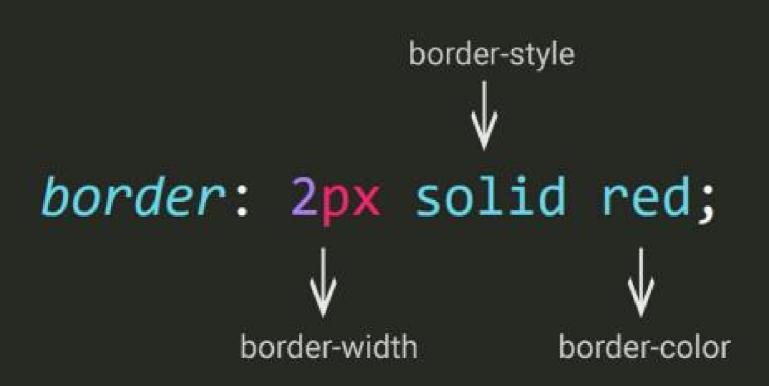








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rgb(red, green, blue)

Value between 0 and 255

rgb(255, 255, 255) <=> white

rgb(0, 0, 0) <=> black

rgb(255, 0, 0) <=> red









rgb(red, green, blue)

Value between 0 and 255

rgb(255, 255, 255) <=> white

rgb(0, 0, 0) <=> black

rgb(255, 0, 1) <=> red









#RRGGBB

#RGB

RR (red), GG (green) and BB (blue)
Value between 00 and FF

```
#000 <=> black #0f0 <=> green

#fff <=> white #00f <=> blue

#f00 <=> red #ff0 <=> yellow
```









#RRGGBB

#RGB

RR (red), GG (green) and BB (blue)
Value between 00 and FF

```
#00 <=> black #0
#ff <=> white #0
#f0 <=> red #ff
```

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#0fi <=> green
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#ffi <=> yellow
```









rgba(red, green, blue, alpha)

Value between 0 and 255

The alpha parameter is a number between 0.0 - 1.0

rgba(0, 0, 0, 0) <=> balck fully transparent rgba(255, 0, 0, 1) <=> red not transparent at all









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float: left;

float: inherit;

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Float Clearfix



```
1 .clearfix::after {
2     content: "";
3     clear: both;
4     display: block;
5 }
```







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2    content: "";
3    clear: both;
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```





Pseudo-elements



A CSS pseudo-element is used to style specified parts of an element.

```
selector::pseudo-element {
    property:value;
}

::first-line
::before
::after
::selection
```







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Pseudo-classes



A pseudo-class is used to define a special state of an element.

```
Syntax
```

```
selector:pseudo-class {
    property:yalue:
```

property:value;

:hover :root

:active :required

:focus :link

:nth-child(n) :checked

:last-child :disabled ...







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The opacity property specifies the opacity/transparency of an element.

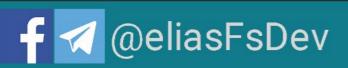
The opacity property can take a value from 0.0 - 1.0.





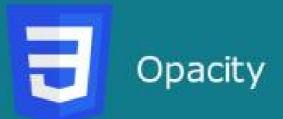
opacity: 1;

opacity: 0.3;





@codingwithelias

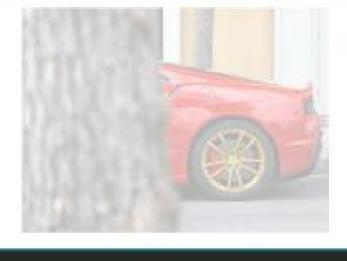




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opacity: 1;

opacity: 0.3;









An outline is a line that is drawn around elements, OUTSIDE the borders, to make the element "stand out"

outline-style I



border: 1px solid black;













An **outline** is a line that is drawn around elements, OUTSIDE the borders, to make the element "stand out"

outline-width





outline-color



Center Align Elements



To horizontally center a block element (like <div>), use margin: auto;

To just center the text inside an element, use text-align: center;

To center an image, set left and right margin to auto and make it into a block element:

```
img {
    margin: 0px auto;
    width: 50%;
}
```







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The position Property



The position property specifies the type of positioning method used for an element.

There are five different position values: static, relative, fixed, absolute and sticky

```
h1{
    position: absolute;
    top: 100px;
    right: 0;
}
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What are CSS Animations?



Animations & Transitions

- > CSS animations allows animation of most HTML elements without using JavaScript.
- To use CSS animation, you must first specify some keyframes for the animation.
- @keyframes hold what styles the element will have at certain times.







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Animations Transitions

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- > To use CSS animation, you must first specify some keyframes for the animation.
- @keyframes hold what styles the element will have at certain times.







The @keyframes Rule



```
/* The element to apply the
 2
      animation to */
 3
   div {
 4
     width: 50px;
 5
     height: 50px;
 6
     background-color: blue;
7
     animation-name: example;
 8
     animation-duration: 4s;
 9
10
   /* The animation code */
11
   @keyframes example {
12
     from {background-color: blue;}
13
     to {background-color: green;}
14
15
```







The @keyframes Rule



```
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 1
      animation to */
 2
 3
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 4
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 6
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 7
     animation-name: example;
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15
```







CSS Animation Properties -1



animation A shorthand property for setting all the animation properties

animation-duration animation-delay animation-direction

1 div {
2 animation: example 5s linear 2s infinite alternate;
3 }

animation-name

animation-timing function

animation-iteration count

- animation-name Specifies the name of the @keyframes animation
- animation-delay Specifies a delay for the start of an animation
- animation-direction Specifies whether an animation hould be played orwards, backwards or in alternate cycles







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- animation-play-state Specifies whether the animation is running or paused
- animation-timing-function Specifies the speed curve of the animation
- animation-duration Specifies how long time an animation should take to complete one cycle
- animation-fill-mode Specifies a style for the element when the animation is not playing (before it starts, after it ends, or both)
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CSS transitions allows you to change property values smoothly (from one value to another), over a given duration.



```
1 div {
2  width: 50px;
3  height: 50px;
4  background: blue;
5  transition: width 2s;
6 }
7 
8 div:hover {
9  width: 100px;
10 }
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CSS Transition Properties



transition A shorthand property for setting the four transition properties into a single property

> transition-duration transition-delay

```
div {
  transition: width 2s linear 1s;
```

transition-property

transition-timing function

- transition-delay Specifies a delay (in seconds) for the transition effect
- transition-duration Specifies how many seconds or milliseconds a transition effect takes to complete
- transition-property Specifies the name of the CSS property the transition effect is for
- transition-timing-function Specifies the speed curve of the transition effect





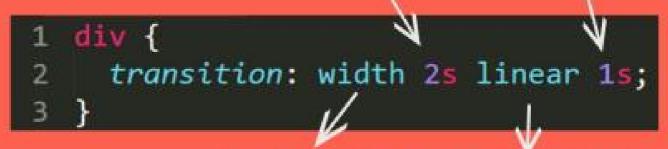


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