

## CSS

CSS is a language that describes the style of an HTML document.

CSS describes how HTML elements should be displayed.

CSS stands for Cascading Style Sheets

CSS describes how HTML elements are to be displayed on screen, paper, or in other media

CSS saves a lot of work. It can control the layout of multiple web pages all at once

External stylesheets are stored in CSS files

### Use of CSS

CSS is used to define styles for your web pages, including the design, layout and variations in display for different devices and screen sizes.

### External stylesheet

```
<head>
<link rel="stylesheet" type="text/css" href="mystyle.css">
</head>
```

### Internal stylesheet

```
<head>
<style>
body {
    background-color: linen;
}
h1 {
    color: maroon;
    margin-left: 40px;
}
</style>
</head>
```

### Inline styles

```
<h1 style="color:blue;margin-left:30px;">This is a heading</h1>
```

### Cascading order

Inline style (inside an HTML element)

External and internal style sheets (in the head section)

Browser default

### Id selector

```
#para1 {  
  text-align: center;  
  color: red;  
}
```

class selector

```
p.para1 {  
  text-align: center;  
  color: red;  
}
```

rgb value

rgb(red, blue, green)

```
p{  
  background-color: rgb(255, 99, 71)  
};
```

Hex value

#rrggbb

```
p{  
  background-color: #ff0000  
};
```

HSL value

hsl(hue, saturation, lightness)

```
p{  
  background-color: hsl(1, 100%, 50%)  
};
```

HSLA value

hsla(hue, saturation, lightness, alpha)

The alpha parameter is a number between 0.0 (fully transparent) and 1.0 (not transparent at all)

```
P{  
  background-color: hsla(9, 100%, 64%, 0.4)  
};
```

CSS background properties:

background-color      --->background-color: green;  
background-image      ---->background-image: url("paper.gif");  
background-repeat      ---->background-repeat: repeat-x; (for horizontal)  
                             ---->background-repeat: repeat-y; (for vertical)  
                             --->background-repeat: no-repeat;  
background-attachment

background-attachment: fixed;  
background-attachment: scroll;  
background-attachment: local;  
background-attachment: initial;  
background-attachment: inherit;

background-position      ---->background-position: right top;

shorthand property

background: #ffffff url("img\_tree.png") no-repeat right top;

The border-style property specifies what kind of border to display.

The following values are allowed:

dotted - Defines a dotted border  
dashed - Defines a dashed border  
solid - Defines a solid border  
double - Defines a double border  
groove - Defines a 3D grooved border. The effect depends on the border-color value  
ridge - Defines a 3D ridged border. The effect depends on the border-color value  
inset - Defines a 3D inset border. The effect depends on the border-color value  
outset - Defines a 3D outset border. The effect depends on the border-color value  
none - Defines no border  
hidden - Defines a hidden border

EX:

```
p.dotted {  
border-style: dotted;  
border-width: 5px;  
border-color: red;  
border-left: 6px solid red;  
border-radius: 5px;  
border-right-color: red;  
}
```

## margin

```
p {  
  margin-top: 100px;  
  margin-bottom: 100px;  
  margin-right: 150px;  
  margin-left: 80px;  
}
```

## shorthand margin

```
p {  
  margin: 25px 50px 75px 100px;  
}
```

## padding

```
div {  
  padding-top: 50px;  
  padding-right: 30px;  
  padding-bottom: 50px;  
  padding-left: 80px;  
}
```

## shorthand padding

```
div {  
  padding: 25px 50px 75px 100px;  
}
```

If the padding property has two values:

```
padding: 25px 50px;
```

top and bottom paddings are 25px  
right and left paddings are 50px

If the padding property has three values:

```
padding: 25px 50px 75px;
```

top padding is 25px  
right and left paddings are 50px  
bottom padding is 75px

## Height & width

```
div {  
  height: 200px;  
  width: 50%;  
  background-color: powderblue;  
}
```

Max width

```
max-width: 500px;
```

Boxing-model

Explanation of the different parts:

Content - The content of the box, where text and images appear

Padding - Clears an area around the content. The padding is transparent

Border - A border that goes around the padding and content

Margin - Clears an area outside the border. The margin is transparent

```
div {  
  width: 320px;  
  padding: 10px;  
  border: 5px solid gray;  
  margin: 0;  
}
```

calculation

```
320px (width)  
+ 20px (left + right padding)  
+ 10px (left + right border)  
+ 0px (left + right margin)  
= 350px
```

The outline-style property specifies the style of the outline, and can have one of the following values:

dotted - Defines a dotted outline

dashed - Defines a dashed outline

solid - Defines a solid outline

double - Defines a double outline

groove - Defines a 3D grooved outline

ridge - Defines a 3D ridged outline

inset - Defines a 3D inset outline

outset - Defines a 3D outset outline

none - Defines no outline  
hidden - Defines a hidden outline

.css{

background-color: lightblue;           //background color  
background-image: url("paper.gif");   //background image  
background-repeat: repeat-x;           //horizontal repeat  
background-repeat: repeat-y;           //vertical repeat  
background-repeat: no-repeat;          //no repeat  
background-attachment: fixed;  
background-position: right top;

border-style: dotted;  
border-style: dashed;  
border-style: solid;  
border-style: double;  
border-style: groove;  
border-style: ridge;  
border-style: inset;  
border-style: outset;  
border-style: none;  
border-style: hidden;  
border-style: dotted dashed solid double;

border-width: 2px 10px 4px 20px;  
border-color: red green blue yellow;  
border-radius: 5px;

color: white;                            //font color  
text-align: center;                      //alignment  
text-align: left;  
text-align: right;  
text-align: justify;  
font-family: verdana;                   //font style  
font-size: 20px;                        //font size

margin-top: 100px;  
margin-bottom: 100px;  
margin-right: 150px;  
margin-left: 80px;  
margin: 25px 50px 75px 100px;  
margin: 25px 50px 75px;                //top       right,left   bottom  
margin: 25px 50px;                      //top,bottom   right,left

margin: 25px; //all 4 sides  
margin: auto;

padding-top: 50px;  
padding-right: 30px;  
padding-bottom: 50px;  
padding-left: 80px;  
padding: 25px 50px 75px 100px;  
padding: 25px 50px 75px; //top right,left bottom  
padding: 25px 50px; //top,bottom right,left  
padding: 25px; //all 4 sides

width: 300px; //element will be 350px (300px + 25px of left padding + 25px of right padding)

box-sizing: border-box;

height: 200px;  
max-width: 500px;  
outline-offset: 15px;  
outline-style: solid;  
outline-color: red;  
outline-width: thin;

text-decoration: none;  
text-decoration: line-through;  
text-decoration: underline;

text-transform: uppercase;  
text-transform: lowercase;  
text-transform: capitalize;

text-indent: 50px;  
letter-spacing: 3px;  
line-height: 0.7;

direction: rtl;  
word-spacing: 10px;  
text-shadow: 3px 2px red;

vertical-align: baseline;  
vertical-align: text-top;  
vertical-align: text-bottom;  
vertical-align: sub;  
vertical-align: super;

visibility: visible;

visibility: hidden;  
visibility: collapse;  
visibility: initial;  
visibility: inherit;

white-space: nowrap;  
white-space: normal;  
white-space: pre;

word-break: normal;  
word-break: keep-all;  
word-break: break-all;

word-wrap: normal;  
word-wrap: break-word;

z-index: -1;