

# Learning CSS (Cascading Style Sheet)

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#### Cascading Style Sheet (CSS-3)

CSS describes how an HTML file should be display.

CSS is used to change the layout of an HTML page.

CSS consist of following:

- 1. Selector & Declaration Block
- 2. Property & Value

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H1 = {color:blue}

#### Inserting inline CSS

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Document</title>
  </head>
  <body>

      This is a dummy text and can be replaced.

      </body>
  </html>
```

## Inserting internal CSS

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Document</title>
<style>
p {
    color: blue;
}
</style>
</head>
<body>
Paragraph 1 - This is a dummy text and can be replaced
Paragraph 2 - This is a dummy text and can be replaced
</body>
</body>
</html>
```

#### Inserting external CSS

```
<html lang="en">
  <head>
    link rel="stylesheet" href="styles.css">
    </head>
  <body>
    This is a dummy text and can be replaced.
  </body>
  </html>

styles.css

p {
    color: red;
    lang="en">
    color: red;
    lang="en">
    lang="en"
    lang="en">
    lang="en"
    lang="en">
    lang="en"
    lang="en"
```

#### Order of precedence

- 1. Inline style
- 2. Internal style
- 3. External style
- 4. Browser default

Note: If external stylesheet is referred after internal block then external style will take precedence

#### Select based on tag, id or class

```
p {color: red;}
#p1{color: blue;}
.c1 {color: green;}
.c2 {color: yellow;}
p.c1 {color: maroon;}
```

#### Refer more than one class

## Universal – affects every element

```
. * {
  text-align: center;
  color: blue;
}
```

## Grouping selectors

```
p, h1, div {
   color: red;
}
```

#### **CSS Comments**

```
/* This is a single-line comment */
H1 {
  color: blue;
}
```

## Colors and Backgrounds

```
div {
  background-color: lightblue;
  color:green
}
```

#### Borders and Margins

```
div {
    border: dashed 10px blue /*shorthand*/
  }
div {
    width: 100px;
    border: 5px blue solid;
    margin: 40px 40px 40px 40px; /* try auto and margin-top */
}
```

## Text, Fonts

```
div {font-family: Arial;font-size: 14px;}
```

#### Position fixed

```
div {
    position: fixed;
    bottom: 0;
    right: 0;
    width: 500px;
    border: 10px solid blue;
}
```

## Position sticky

```
div {
    position: sticky;
    top: 0;
    background-color: green;
    border: 2px solid #4caf50;
}
```

#### Padding

```
div {
    border:5px blue solid;
    padding: 10px 20px 30px 40px;
}
```

Try with just padding:10px and Padding-top, padding-bottom, etc

#### Background-image

```
body {
    background-image: url("colors.png");
    background-repeat: no-repeat; /* repeat */
    background-position: center; /* right top,left top */
    background-attachment: scroll; /*fixed*/
    background-size:cover;
    }
    body {background: #eeeeee url("colors.png") no-repeat right top;}
    background-color, background-image, background-repeat, background-attachment, background-position
```

#### Flex box

```
<!DOCTYPE html>
<html>
<html>
<head>
<style>
.container {
    display: flex;
    height: 100px;
    /*flex-direction: row;*//* try column */
    background-color: silver;
    /* flex-map: wrap; */
    /* flex-flow: row wrap; */
    /* justify-content: right; center left flex-start flex-end space-around space-between */
    /* align-items: center; flex-start flex-end stretch(default) */
}

.container > div {
    background-color: orange;
    width: 100px;
    margin: 10px;
    text-align: center;
    line-height: 75px;
    font-size: 20px;
    </head>
</hr>
</hr>
</hr>
</hr>
</hr>
</hr>
</ha>

Adiv CSS</mi>
</hr>

Adiv JavaScript

Adiv JavaS
```

#### Grid

#### Styling Lists

```
<style>
  li {border: solid;}
  ul {
    border: solid;
  list-style-type: square; /* try circle upper-roman lower-alpha */
    /* list-style-image: url('colors.png'); */
    list-style-position: outside; /* try inside */
    margin: 20px;
    padding: 30px;}
  </style>
```

#### Box model

```
div {
  width: 300px;
  border: 15px solid green;
  padding: 50px;
  margin: 20px;
}
Content > padding > border > margin
```

#### Border Boxing

#### Pseudo class

```
a:link {color: green;}
a:visited {color: red;}
a:hover {color: orange;}
a:active {color: blue;}
div:hover {display: block; background-color: yellow;}
input:focus {display: block; background-color: pink;}
input:in-range {border: 2px solid red;}
```

## Form styling

```
input {
  width: 100%;
}
input[type=text] {
  width: 100%;
  padding: 12px 20px;
}
input[type=button], input[type=submit], input[type=reset] {
  background-color: #04AA6D;
  border: none;
  color: white;
}
```

#### Wildcard Selectors (\*, ^ and \$)

The asterisk (\*) matches any character, the caret (^) matches the start, and the dollar sign (\$) matches the end of an attribute value.

```
<style>
[class*="t"] {
   background-color: yellow;
}
[class^="t"] {
   background-color: yellow;
}
[class$="t"] {
   background-color: yellow;
}
</style>
<body>
   <div class="tree">This is tree class</div>
   <div class="stroke">This is stroke class</div>
   <div class="best">This is best class</div>
   <div class="best">This is best class</div>
   </body>
```

## Float

```
div{
    float:right /* left none */
}
```

#### Styling Tables

```
table,th,td {
    border: 1px solid; /* try border-bottom */
    border-collapse: collapse;
    text-align: center;
    vertical-align: middle; /*try bottom and top */
    padding:20px;
    }
tr:hover {background-color: orange;}
thtr:nth-child(even) {background-color: cyan;}
{width:100px; /* try percent also */}
```

#### Gradients

```
div {
    /*background-image: linear-gradient(maroon, yellow);*/
    /*background-image: linear-gradient(to right,red,pink);*/
    /*background-image: linear-gradient(to bottom right,maroon, yellow);*/
    /*background-image: linear-gradient(90deg,maroon, yellow);*/
    /*background-image: linear-gradient(maroon, yellow,pink);*/
    /*background-image: radial-gradient(red, yellow, green);*/
    /*background-image: radial-gradient(maroon 10%, yellow 20%, green 30%);*/
    /*background-image: radial-gradient(circle,red, pink, green);*/
    background-image: repeating-radial-gradient(maroon, pink 10%, green 15%);
}
```