CSS Tutorial

* CSS stands for Cascading Style Sheet.
* CSS is used to design HTML tags.
* CSS is a widely used language on the web.
* HTML, CSS and JavaScript are used for web designing. It helps the web designers to apply style on HTML tags.

## **CSS Example with CSS Editor**

In this tutorial, you will get a lot of CSS examples, you can edit and run these examples with our online CSS editor tool.

1. <!DOCTYPE**>**
2. **<html>**
3. **<head>**
4. **<style>**
5. h1{
6. color:white;
7. background-color:red;
8. padding:5px;
9. }
10. p{
11. color:blue;
12. }
13. **</style>**
14. **</head>**
15. **<body>**
16. **<h1>**Write Your First CSS Example**</h1>**
17. **<p>**This is Paragraph.**</p>**
18. **</body>**
19. **</html>**

# What is CSS

CSS stands for Cascading Style Sheets. It is a style sheet language which is used to describe the look and formatting of a document written in markup language. It provides an additional feature to HTML.

## **What does CSS do**

* You can add new looks to your old HTML documents.
* You can completely change the look of your website with only a few changes in CSS code

## **Why use CSS**

These are the three major benefits of CSS:

## **1) Solves a big problem**

Before CSS, tags like font, color, background style, element alignments, border and size had to be repeated on every web page. This was a very long process. For example: If you are developing a large website where fonts and color information are added on every single page, it will be become a long and expensive process.

## **2) Saves a lot of time**

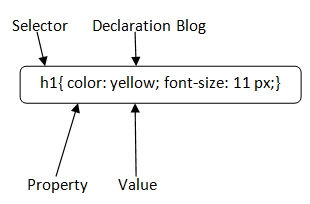
CSS style definitions are saved in external CSS files so it is possible to change the entire website by changing just one file.

## **3) Provide more attributes**

CSS provides more detailed attributes than plain HTML to define the look and feel of the website.

CSS Syntax

A CSS rule set contains a selector and a declaration block.



**Selector:** Selector indicates the HTML element you want to style. It could be any tag like <h1>, <title> etc.

**Declaration Block:** The declaration block can contain one or more declarations separated by a semicolon. For the above example, there are two declarations:

1. color: yellow;
2. font-size: 11 px;

Each declaration contains a property name and value, separated by a colon.

CSS Selector

**CSS selectors** are used *to select the content you want to style*. Selectors are the part of CSS rule set. CSS selectors select HTML elements according to its id, class, type, attribute etc.

There are several different types of selectors in CSS.

1. CSS Element Selector
2. CSS Id Selector
3. CSS Class Selector
4. CSS Universal Selector
5. CSS Group Selector

## **1) CSS Element Selector**

The element selector selects the HTML element by name.

1. <!DOCTYPE html**>**
2. **<html>**
3. **<head>**
4. **<style>**
5. p{
6. text-align
7. 1: center;
8. color: blue;
9. }
10. **</style>**
11. **</head>**
12. **<body>**
13. **<p>**This style will be applied on every paragraph.**</p>**
14. **<p** id="para1"**>**Me too!**</p>**
15. **<p>**And me!**</p>**
16. **</body>**
17. **</html>**

## **2) CSS Id Selector**

The id selector selects the id attribute of an HTML element to select a specific element. An id is always unique within the page so it is chosen to select a single, unique element.

It is written with the hash character (#), followed by the id of the element.

Let?s take an example with the id "para1".

1. <!DOCTYPE html**>**
2. **<html>**
3. **<head>**
4. **<style>**
5. #para1 {
6. text-align: center;
7. color: blue;
8. }
9. **</style>**
10. **</head>**
11. **<body>**
12. **<p** id="para1"**>**Hello Javatpoint.com**</p>**
13. **<p>**This paragraph will not be affected.**</p>**
14. **</body>**
15. **</html>**

## **3) CSS Class Selector**

The class selector selects HTML elements with a specific class attribute. It is used with a period character . (full stop symbol) followed by the class name.

#### **Note: A class name should not be started with a number.**

Let's take an example with a class "center".

1. <!DOCTYPE html**>**
2. **<html>**
3. **<head>**
4. **<style>**
5. .center {
6. text-align: center;
7. color: blue;
8. }
9. **</style>**
10. **</head>**
11. **<body>**
12. **<h1** class="center"**>**This heading is blue and center-aligned.**</h1>**
13. **<p** class="center"**>**This paragraph is blue and center-aligned.**</p>**
14. **</body>**
15. **</html>**

## **CSS Class Selector for specific element**

If you want to specify that only one specific HTML element should be affected then you should use the element name with class selector.

Let's see an example.

1. <!DOCTYPE html**>**
2. **<html>**
3. **<head>**
4. **<style>**
5. p.center {
6. text-align: center;
7. color: blue;
8. }
9. **</style>**
10. **</head>**
11. **<body>**
12. **<h1** class="center"**>**This heading is not affected**</h1>**
13. **<p** class="center"**>**This paragraph is blue and center-aligned.**</p>**
14. **</body>**
15. **</html>**

## **4) CSS Universal Selector**

The universal selector is used as a wildcard character. It selects all the elements on the pages.

1. <!DOCTYPE html**>**
2. **<html>**
3. **<head>**
4. **<style>**
5. \* {
6. color: green;
7. font-size: 20px;
8. }
9. **</style>**
10. **</head>**
11. **<body>**
12. **<h2>**This is heading**</h2>**
13. **<p>**This style will be applied on every paragraph.**</p>**
14. **<p** id="para1"**>**Me too!**</p>**
15. **<p>**And me!**</p>**
16. **</body>**
17. **</html>**

## **5) CSS Group Selector**

The grouping selector is used to select all the elements with the same style definitions.

Grouping selector is used to minimize the code. Commas are used to separate each selector in grouping.

Let's see the CSS code without group selector.

1. <!DOCTYPE html**>**
2. **<html>**
3. **<head>**
4. **<style>**
5. h1, h2, p {
6. text-align: center;
7. color: blue;
8. }
9. **</style>**
10. **</head>**
11. **<body>**
12. **<h1>**Hello Javatpoint.com**</h1>**
13. **<h2>**Hello Javatpoint.com (In smaller font)**</h2>**
14. **<p>**This is a paragraph.**</p>**
15. **</body>**
16. **</html>**

# How to add CSS

CSS is added to HTML pages to format the document according to information in the style sheet. There are three ways to insert CSS in HTML documents.

1. Inline CSS
2. Internal CSS
3. External CSS

## **1) Inline CSS**

Inline CSS is used to apply CSS on a single line or element.

**<p** style="color:blue"**>**Hello CSS**</p>**

## **2) Internal CSS**

Internal CSS is used to apply CSS on a single document or page. It can affect all the elements of the page. It is written inside the style tag within head section of html.

We can apply CSS in a single element by inline CSS technique.

For example:

1. **<style>**
2. p{color:blue}
3. **</style>**

## **Disadvantages of Inline CSS**

* You cannot use quotations within inline CSS. If you use quotations the browser will interpret this as an end of your style value.
* These styles cannot be reused anywhere else.

## **3) External CSS**

External CSS is used to apply CSS on multiple pages or all pages. Here, we write all the CSS code in a css file. Its extension must be .css for example style.css.

For example:

1. p{color:blue}

You need to link this style.css file to your html pages like this:

1. **<link** rel="stylesheet" type="text/css" href="style.css"**>**

The external style sheet is generally used when you want to make changes on multiple pages. It is ideal for this condition because it facilitates you to change the look of the entire web site by changing just one file.

It uses the <link> tag on every pages and the <link> tag should be put inside the head section.

Example:

1. **<head>**
2. **<link** rel="stylesheet" type="text/css" href="mystyle.css"**>**
3. **</head>**

The external style sheet may be written in any text editor but must be saved with a .css extension. This file should not contain HTML elements.

*File: mystyle.css*

1. body {
2. background-color: lightblue;
3. }
4. h1 {
5. color: navy;
6. margin-left: 20px;
7. }

# CSS Comments

CSS comments are generally written to explain your code. It is very helpful for the users who reads your code so that they can easily understand the code.

Comments are ignored by browsers.

Comments are single or multiple lines statement and written within /\*............\*/ .

Single line comment---🡪ctrl+k,ctrl+c

Single line uncomment---🡪ctrl+k,ctrl+u

Multiple line comment-🡪alt+shift+a Same for umcomment also