

CSS

3 Types of CSS

1. inline CSS.
2. internal CSS.
3. external CSS.

→ 1. inline CSS

- An inline CSS is used to apply a unique style to a single HTML element
- An inline CSS uses the style attribute of an HTML element.

ex.

```

<html>
  <head><title> inline CSS </title></head>
  <body>
    <h1 style="color: blue;"> A blue Heading </h1>
    <p style="color: red;"> A red Paragraph </p>
  </body>
</html>
  
```

→ 2. internal CSS

- An internal CSS is used to define a style for a single HTML page
- An internal CSS is defined in the <head> section of an HTML page within a <style> element

ex

```

<!DOCTYPE HTML>
<html>
  <head>
    <style>
      <body> &#background-color : Powder blue ; </body>
    </style>
  </head>
</html>
  
```

```

h1 {color: blue; }
p {color: red; }

</style>
<head>
<body>
<h1>This is a heading</h1>
<p>This is Paragraph</p>
</body>
</html>

```

~~External CSS~~

- An external style sheet is used to define the style for many html pages.
- to use an external style sheet add a link to it in the <head> section of each html page.

ex

```

<!DOCTYPE html>
<html> ad (in different areas) <br>
<head> <br>
<link rel="stylesheet" href="styles.css"> <br>
</head> <br>
<body> <br>
<h1>This is a heading</h1> <br>
<p>This is a Paragraph</p> <br>
</body>
</html>

```

CSS Selectors

1 Five types CSS Selections

- | | |
|----------------------|------------------------|
| (1) Element selector | (3) Universal selector |
| (2) ID selector | (4) Grouping selector |
| (5) Class selector | |

1. Element Selector:-

The element selector selects HTML elements based on the element name.

Ex

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
p {
```

```
    text-align: center;
```

```
    color: blue;
```

```
}
```

```
</style>
```

```
<head>
```

```
<body>
```

~~Every paragraph will be affected by the style.~~

```
<p id="Purush"> me too! </p>
```

```
<p> and me! </p>
```

```
</body>
```

```
</html>
```

2. ID Selector:-

The ID selector uses the id attribute of an HTML element to select a specific element

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

para1 {

text-align: center;

color: red;

}

<!DOCTYPE

<html>

<body>

<p id="para1">Hello world!</p>

<p>This paragraph is not affected by the style.

</body>

</html>

3. class selector

The class Selector Selects HTML elements with a specific class attribute.

ex

<!DOCTYPE html>

<html>

<head>

<style>

• center {

text-align: center;

color: red;

}

</style>

<head>

<body>

<h1 class="center">Red and center-aligned heading</h1>

<p class="center">Red and center-aligned

Paragraph</p></body>

4 Universal Selectors

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

ex

```
<!DOCTYPE html>
<html>
<head>
<style>
* { text-align: center; color: blue; }
</style>
</head>
<body>
<h1>Hello World!</h1>
<p>Every element on the page will be affected by the style</p>
<p id="para1">me too!</p>
<p>And me!</p>
</body>
</html>
```

5 Grouping Selectors

- The grouping selector selects the HTML elements with the same style definitions

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
h1, h2, p { text-align: center; color: red; }
```

<style>
 </head>
 <body>
 <h1> Hello world </h1>
 <h2> smaller heading </h2>
 <p> this is a paragraph </p>
 </body>
 </html>

Image Hover effect.

→ <!DOCTYPE html>

<html>

<head>

~~<meta name="viewport" content="width=device-width, initial-scale=1">~~

<style>

- container {

- position: relative;

- width: 50%;

y

- image {

- display: block;

- width: 100%;

- height: auto;

- overlay {

- position: absolute;

- bottom: 100%;

- left: 0;

- right: 0;

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background-color: #008CBA;

overflow: hidden;

width: 100%;

height: 0;

transition: 5s ease;

3

• container: hover . overlay

bottom: 0;

height: 100%;

3

o

• text

color: white;

font-size: 20px;

position: absolute;

top: 50%;

left: 50%;

-webkit-transform: translate(-50%, -50%);

-ms-transform: translate(-50%, -50%);

transform: translate(-50%, -50%);

text-align: center;

3

</style>

</head>

<body>

<h2> side in overlay from the top <h2>

<p> hover over the image to see the effect. </p>

<div class="container">

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```
  
<div class="category">  
<div class="text">hi this is image.</div>  
</div>  
</body>  
</html>
```

FONT Awesome

```
<html>  
<head>  
<title>font awesome</title>  
<link rel="stylesheet" href="https://  
cdn.jsdelivr.cloudflare.com/ajax/libs/font-  
awesome/4.7.0/css" type="text/css"/>  
<style type="text/css">  
#I {font-size: 50px; color: #9b(9,  
255, 0);}  
</style>  
</head>  
<body>  
<span class="fa fa-coffee" id="I">  
coffee</span><br/>  
<i class="fa fa-gift" aria-hidden="true" style=  
"font-size:50px; color:#rgb(00,28,159);">  
Gift</i><br/>  
<i class="fa fa-users" aria-hidden="true" style=  
"font-size:50px; color:#rgb(35,149,197);">  
Users</i><br/>  
<i class="fa fa-plane" aria-hidden="true" style=  
"font-size:50px; color:#rgb(19,28,159);"  
User</i><br/>
```

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```
<i class="fa fa-question" aria-hidden="true">  
    'style="font-size:50px; color:rgb(35,150,  
19);> question</i><br/>  
<i class="fa fa-text-height" aria-hidden="true">  
    'style="font-size:50px; color:rgb(15,  
17,177);> Text-height</i><br/>  
<i class="fa fa-table" aria-hidden="true">  
    'style="font-size:50px; color:rgb(15,  
67,242);> Text-height</i><br/>
```

~~Action creating~~

Gray layout - 1



```
<html>
```

```
<head>
```

```
    <title> layout-type 1 </title>
```

```
    <style type="text/css">
```

* \$

font-size:22px; font-weight:bold;

#R1 \$

background-color:gray; height:50px;
padding-top:20px; width:98%; padding
left:2%; margin-bottom:10px;

#R2 \$

background-color:gray; height:33px;

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Padding-top: 7px; width: 100%; text-align: center; margin-bottom: 10px;

#R3 {

height: 90px; margin: 10px; width: 100%; background-color: gray; Padding-top: 60px; width: 100%; text-align: center; margin-bottom: 10px;

#R4 { height: 600px; width: 100%; margin-bottom: 10px; }

#R4C1 { width: 28%; margin-right: 2%; }

#R4C2 { width: 70%; }

#R4 div {

float: left; height: 320px; padding-top: 280px; text-align: center;

</style>

<head>

<body>

<div>

<div id="R1">

logo

</div>

<div id="R2">

navigation

</div>

<div id="R3">

header/banner

</div>

<div id="R4">

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<div id="R4C1">

side bar

<div>

<div id="R4C2">

body area

<div>

<div>

<div id="R5">

footer

<div>

<div>

<body>

<html>

Gray layout

<!DOCTYPE html>

<html>

<head>

<title>layout type 2</title>

<style type = "text/css">

* {

font-size: 22px; font-weight: bold;

}

#R1 { background-color: gray; height: 40px;
padding-top: 30px; width: 95%; padding-left: 5%;
margin-bottom: 10px; }

R2, #R3, #R5 { background-color: gray;
height: 33px; padding-top: 7px; width: 100%;
text-align: center; margin-bottom: 10px; }

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#R4 {

height: 600px; margin-bottom: 10px;
width: 100%;

y

#R4C1 { width: 32%; margin-right: 1%; }
x

#R4C2 { width: 32%; margin-right: 1%; margin-left: 1%; }
y

#R4C3 {

width: 32%; margin-right: 1%; }
y

#R4 DIV {

float: left; height: 320px; padding-top: 28px;
text-align: center; background-color: #ccc;

<style>

<head>

<body>

<div>

<div id="R1">

logo

</div>

<div id="R2">

navigation

<div>

<div id="R4">

<div id="R4C1">

side bar

<div>

<div id="R4C2">

body area

<div>

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```
<div id="RUC3">  
  body text  
  <div>  
  <div>  
    <div id="RG">  
      footer  
      <div>  
        <div>  
          <body>  
        </body>  
      </div>  
    </div>
```

gray layout

→ <html>

 <head>

 <title> layout type </title>

 <style type="text/css">

* \$

font-size: 22px; font-weight: bold;

 y

R1 { background-color: gray; height: 40px; padding-top: 30px; width: 95%; padding-left: 5%; margin-bottom: 10px; }

R2, # R3, # R5 { background-color: gray; height: 33px; padding-top: 7px; width: 100%; text-align: center; margin-bottom: 10px; }

R4 { height: 600px; margin-bottom: 10px; width: 100%; }

R4C1 { width: 23.5%; margin-right: 1%; }

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#R4C2 {width: 23.5%; margin-right: 1%; margin-left: 1%;}

#R4C3 {width: 23.5%; margin-right: 1%; margin-left: 1%;}

#R4C4 {width: 23.5%; margin-left: 1%;}

#R4 div {float: left; height: 320px; padding-top: 280px; text-align: center; background-color: gray;}

</style>

</style>

</head>

<body>

<div>

<div id="R1">

logo

</div>

<div id="R2">

navigation

</div>

<div id="R3">

header/banner

</div>

<div id="R4">

<div id="R4C1">

Side bar

</div>

<div id="R4C2">

body area

</div>

<div id="R4C3">

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```
· body text  
</div>  
</div>  
<div id="R5">  
  footer  
    </div>  
</div>  
</body>  
</html>
```

midye query

```
<!DOCTYPE html>  
<html>  
<head>  
<meta name="viewport" content="width=device-width, initial-scale=1.0">  
<style>  
* {  
  box-sizing: border-box;  
}  
::row::after {  
  content: " ";  
  clear: both;  
  display: block;  
}  
[class*="col-"] {  
  float: left;  
  padding: 15px;  
}  
html {  
  font-family: "Lucida Sans", sans-serif;  
}
```

.header {

background-color: #9933CC;

color: #FFFFFF;

padding: 15px;

}

.menu ul {

list-style-type: none;

margin: 0;

padding: 0;

}

.menu li {

padding: 8px;

margin-bottom: 7px;

~~background-color: #33b5e5;~~

~~color: #FFFFFF;~~

~~box-shadow: 0 1px 3px rgba(0,0,0,12), 0 1px~~

~~2px rgba(0,0,0,24);~~

.footer {

background-color: #0099CC;

color: #FFFFFF;

text-align: center;

font-size: 12px;

padding: 10px;

}

/* for desktop: */

.col-1 {width: 8.33%;

.col-2 {width: 16.66%;

.col-3 {width: 25%;

.col-4 {width: 33.33%;

.col-5 {width: 41.66%;

.col-6 {width: 50%;

.col-7 {width: 58.33%;

.col-8 {width: 66.66%;

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• col-9 {width: 75%;}

• col-10 {width: 83.33%;}

• col-11 {width: 91.66%;}

• col-12 {width: 100%;}

② media only screen and (max-width: 768px)

/* for mobile phones: */

[class] = "col-1" {

width: 100%;

}

}

</style>

</head>

<body>

<div class="header">

<h1>Chania</h1>

</div>

<div class="row">

<div class="col-3 menu">

The flight

The City

The Island

The food

</div>

<div class="col-6">

<h1>The city</h1>

<p>Chania is the capital of the chania
region on the island of Crete. The city
can be divided in two parts, the old
town and the modern city.</p>

</div>

<div class="col-3 right">

<div class="aside">

<h2>What? </h2>

<p>Chania is a city on the island of Crete.
</p>

<h2>Where? </h2>

<p>Crete is a Greek island in the
Mediterranean sea. </p>

<h2>How? </h2>

<p>You can reach Chania ~~via~~ port from
all over Europe. </p>

</div>

</div>

</div>

<div class="footer">

<p>Resize the browser window to see how
the content respond to the resizing. </p>

</div>

</body>

</html>

CSS introduction

- What is CSS?

- CSS stands for cascading style sheets.

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

- CSS saves lot of work.

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why use css

css is used to define style for your web pages including the design layout & position in display for different devices screen size

css syntax,

A CSS rule consists of a selector & a declaration block.

p {

color: red;

text-align: center;

}

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JAVA SCript

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(1. <!DOCTYPE html>

<html>

<body>

<h2> my first Javascript </h2>

<button type = "button"

onclick = "document.getElementById('demo').innerHTML = Date()";

click me to display date and time.

</button>

<p id = "demo"></p>

</body>

</html>

(2. <!DOCTYPE html>

<html>

<body>

<h2> what can Javascript do? </h2>

<p id = "demo"> Javascript can change HTML
content. </p>

<button type = "button">

onclick = "document.getElementById('demo').innerHTML = 'Hello'

'Javascript!' > click me! </button>

</body>

</html>

<!DOCTYPE html>

<html>

<body>

<h2> what can Javascript do? </h2>

<p id = "demo"> Javascript can change HTML

content. </p>

```

<button type="button"
        onclick="document.getElementById('end').innerHTML='Hello JavaScript!'>
        Click me! </button>
</body>
</html>
  
```

(4. <!DOCTYPE html>

```

<html>
<body>
<h2>What can JavaScript do? </h2>
<p>JavaScript can change HTML
attribute values. </p>
<p>In this case JavaScript changes
the value of the src attribute of
an image. </p>
  
```

```

<button
        onclick="document.getElementById('myImage').src='pic-button.gif'>Turn on the light</button>

  
```

```

<button
        onclick="document.getElementById('myImage').src='pic-button-off.gif'>Turn off the
light</button>
  
```

</body>

</html>

(5. `<html>``<body>``<h2> what can javascript do? </h2>``<p id = "demo0"> javascript can change
the style of an HTML element. </p>``<button type = "button">``Onclick = "document.getElementById('demo0')``.style.fontSize = '35px'"; click me! </button>``</body>``</html>`(6. `<html>``<body>``<h2> javascript in body </h2>``<p id = "demo1"> </p>``<script>``document.getElementById("demo1").in
erHTML = "my first javascript";``</script>``<body>``</html>`(7. `<html>``<head>``<script>``function myFunction() {``document.getElementById("demo")``.innerHTML = "Paragraph changed";``</script>``</head>``<body>``<h2> Demo Javascript in Head </h2>`

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```
<P id="demo"> A Paragraph. </P>
<button type="button"
        onclick="my function()"> Try it </button>
</body>
</html>
```

(8. <html>

```
<body>
```

```
<h2> Demo JavaScript in body </h2>
```

```
<P id="demo"> A Paragraph </P>
```

```
<button type="button"
```

```
        onclick="my function()"> Try it </button>
```

```
<script>
```

```
function my function() {
```

```
    document.getElementById("demo").inn
```

```
    <P>Paragraph change. </P>
```

```
</script>
```

```
</body>
```

```
</html>
```

(9. <html>

```
<body>
```

```
<h2> Demo external JavaScript </h2>
```

```
<P id="demo"> A Paragraph. </P>
```

```
<button type="button"
```

```
        onclick="my function()"> Try it </button>
```

```
<P> This example links to "my script.js"
```

```
<P>(my function is stored in "my script.js")
```

```
</P>
```

```
<script src="my script.js"></script>
```

```
</body>
```

```
</html>
```

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(1) <html>

<body>

<h2> my first web page</h2>

<p> my first Paragraph</p>

<p id="demo0"><ip>

<script>

document.getElementById('demo0').innerHTML
= 5 + 6;

</script>

</body>

</html>

(2) <html>

<body>

<h2> my first web page</h2>

<p> my first Paragraph</p>

<p> Never call document.write after the
document has finished loading.
It will overwrite the whole document.

</p>

<script>

document.write(5 + 6);

</script>

</body>

</html>

(3)

<html>

<body>

<h2> my first web page</h2>

<p> my first Paragraph</p>

<button type="button">

onclick="document.write('Hello World!')

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</body>
</html>

I3. <html>

<body>
<h2> my first web page </h2>
<p> my first paragraph </p>
<script>
window.alert(5+6);
</script>
</body>
</html>

I4 <html>

<head>
<h2> Activate Debugging </h2>
<p> F12 on your keyboard will activate
debugging </p>
<p> then select "console" in the
debugger menu. </p>
<p> Then click Run again </p>
<script>
console.log(5+6);
</script>
</html>

(I5. <html>

<body>
<h2> my first web page </h2>
<p> my first paragraph </p>
<script>
alert(5+6);
</script>
</body> </html>