

I N D E X

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Sl. No.	Topic	Date
1.	About W3.org and its web page validator.	16-01-23
2.	css - cascading stylesheet : Types of css & its properties	17-01-23
3.	working with CSS selectors	18-01-23
4.	Crazy layouts & box-model.	19-01-23
5.	video positioning effect.	20-01-23
6.	Image hover effect	24-01-23
7.	Media query	25-01-23
8.	Font awesome	27-01-23
9.	Parallax effect	28-01-23
	css-cascading stylesheet . Revision	30-01-23
10.	Bootstrap: Getting started with responsive designing	31-01-23
11.	Bootstrap grid.	01-02-23
12.	Bootstrap form	02-02-23
13.	Bootstrap ready made code plugs - modals, modal popup, carousel Bootstrap Revision	03-02-23 06-02-23
14.	one page web profile designing with www.js and animate.css	07-02-23
15.	working with Javascript : Getting started with DOM.	09-02-23
16.	variable declaration in JS	10-02-23
17.	Type conversion in JS	11-02-23
18.	Loops in JS	13-02-23
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20.	functions in JS (in built & user defined)	15-02-23

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21	Events and dynamic DOM manipulation in JS.	16-02-23
22	Getting started with Jquery and its plugin.	17-02-23
23	Getting started with \$ and document object.	20-02-23
24	ready() function	22-02-23
25	function chaining & function callback in jquery.	23-02-23
26	Event and val parameters in jquery function.	24-02-23
27	Working with Jquery events.	25-02-23
28	keypress, blur and click event validation in jquery with aeg ex.	27-02-23
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30	Jquery UI widgets	01-03-23
	JavaScript, Jquery, Jquery UI Revision practical viva	02-03-23
		03-03-23

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```
<html>
<head>
<title> Day 1 Task </title>
<style>
#div {
    color: deeppink;
}
span {
    color: blueviolet;
}
blockquote {
    margin-left: 50px;
}
</style>
</head>
<body>
<h1> Heading 1 </h1>
<h2> Heading 2 </h2>
<h3> Heading 3 </h3>
<h4> Heading 4 </h4>
<h5> Heading 5 </h5>
<h6> Heading 6 </h6>
<h7>
<div> My name is <i><b> Ishitu Gondaliya </b></i> </div>
<h8>
<div> My favourite subject is <del> Maths
</del> <ins> Gujarati. </ins> </div>
<h9>
```

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<div> My favourite game is Kho-kh,
 cricket. </div>

<h2>

<div id="01"> This is my paragraph
 </div>

<h2>

<p> hello!! i am from in suat. </p>

<h2>

<hu> the blockquote element </hu>

<p> Here is a quote from WWF's website: </p>

<blockquote cite="http://www.worldwildlife.org/who/index.html">

For 50 years, WWF has been protecting the future of nature the world's leading conservation organization.

</blockquote>

<h2>

<div> The chemical formula of water is M₂O. </div>

<h2>

<div> I completed my 12th thi^{ng} from J.B. & Kaap Kunyu vidhyamandira </div>

<h2>

<div> I am studying in title="Sives Oak College of Computer Application"> SOCOA </div>

<h2>

<div> My name is Ishita Gondaliya. </div>

<h2>

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```
<div> This text is <b> Bold. </b> </div>
<hr>
<div> This text has <strong> strong importance.
</strong> </div>
</body>
</html>
```

Grey layout

```
<html>
<head>
<title> Grey layout </title>
<style type="text/css">
  #R1 { background-color: grey;
        height: 40px; padding-top: 30px;
        width: 95%; padding-left: 5px;
        margin-bottom: 10px; }

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

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

  #R4C1 { width: 32%; margin-right: 1%; }
  #R4C2 { width: 32%; margin-right: 1%; margin-left: 1%; }
  #R4C3 { width: 32%; margin-left: 1%; }

  #R4 div { float: left; height: 320px; padding-top: 28px;
            text-align: center; color: grey; }
```

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```
</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"> Body Text </div>
    </div>
    <div id = "R5"> Footer </div>
  </div>
</body>
</html>
```

Grau Layout

```
<html>
  <head>
    <title> Grau - layout 2 </title>
  </head>
  <style type = "text/css">
    * { font-size: 20px; font-weight: bold; }
    #R1 { background-color: gray; height: 40px;
          padding-top: 30px; width: 95%; }
    #R1 { padding-left: 5%; padding-bottom: 10px; }
    #R2, #R3, #R5 { background-color: gray;
                    height: 33px; width: 100%; }
    #R2, #R3 { padding-top: 7px; text-align: center; }
```

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```
#R4 { height: 600px; width: 100%;  
      margin-bottom: 10px; }  
#R4C1 { width: 23.5%;  
      margin-right: 1%; }  
#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>

</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"> Body text </div>  
    <div id="R4C4"> Body text </div>  
</div>  
<div id="R5"> footer </div>  
</div>
```

</body>

</html>

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box-model

```
<!DOCTYPE HTML>
<html>
<head>
    <title>box model </title>
    <style>
        #01 {
            color: brown;
            font-size: 15px;
            font-family: 'Gill sans';
        }
        div {
            background-color: lightgray;
            width: 300px;
            border: 2px solid black;
            padding: 40px;
            margin: 25px;
        }
    </style>
</head>
<body>
    <h2> THE NUTRITION SOURCE </h2>
    <ul>
        <div id="01"> VEGETABLES AND FRUITS </div>
        <li><i> vegetables and fruits are an important part of a healthy diet. <br> </i></li>
        <li> no single fruits or vegetables provides all of the nutrients you need to be healthy</li>
    </ul>
</body>
</html>
```

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css introduction

what is css?

- css stands for cascading style sheets.
- css describes how HTML elements are to be displayed on screen, papers or in other media
- css saves a lot of work.

why use css?

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

css syntax

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

p {

```
color: red;  
text-align: center;
```

{

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CSS Selectors

CSS Selectors are used to "find" (or select) the HTML elements you want to style.

★ The CSS Element Selectors

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

Example:-

Here, all `<p>` elements on the page will be center aligned, with a red text color.

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

★ The CSS ID Selectors

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

The id of an element is unique with a page, so the id selector is used to select one unique element;

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To select an element with a specific id, write a hash (#) character, followed by the id of the element.

Example:

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

* The css class selector

The class selector selects HTML elements with a specific class attribute.

To select elements with a specific class.

Write a period (.) character, followed by the class name.

Example:

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

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* The CSS universal selector

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

Example :

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

* The CSS Grouping selector

The grouping selector selects all the HTML elements with the same style definition.

Example :

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

* The CSS Box Model

In CSS, the term "box model" is used when talking about design & layout.

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The CSS box model is essentially a box that wraps around every HTML element. It consists of : margins , borders , padding and the actual content.

Explanation of the different parts:

- content : The content of the box , where text & images appear
- padding : clears an area around the content
the padding is transparent.
- Border : A border that goes around the padding & content.
- Has Margin : clears an area outside the border
The margin is transparent.

In Image hover effect

```
<!DOCTYPE HTML>
<html>
<head>
<meta name = "viewport" content = "width =
device-width , initial-scale: "1" >
<style>
    .container {
        position: relative ;
        width: 50% ;
```

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• image {

```
    opacity: 1;  
    display: block;  
    width: 100%;  
    height: auto;  
    transition: ss ease;  
    backface-visibility: hidden;
```

{

• middle {

```
    transition: ss ease;  
    left: 50%;  
    opacity: 0;  
    position: absolute;  
    top: 50%;  
    transform: translate (-50%, -50%);  
    -ms-transform: translate (-50%, -50%);  
    text-align: center;
```

{

• container : hover - image {

```
    opacity: 0.3;
```

{

• container : hover - middle {

```
    opacity: 1;
```

{

• text {

```
background-color: #04A96D;  
color: white;  
font-size: 16px;  
padding: 16px 32px;
```

{

</style>

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</head>

</body>

<div> opacity with box </div>

<p> Hover over the image to see the effect </p>

<div class="container">

class="image" style="width: 100%;"/>

<div class="middle">

<div class="text"> Students </div>

</div>

</div>

</body>

</html>

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Parallax effect

parallax scrolling is a web site trend where the background content like an image is moved at a different speed than the fixed background content while scrolling.

```
<html>
<head>
<style>
    body, html {
        height: 100%;
    }
    .parallax {
        background-image: url(img-parallax.jpg);
        height: 100%;
        background-attachment: fixed;
        background-position: center;
        background-repeat: no-repeat;
        background-size: cover;
    }
</style>
</head>
<body>
    <div class="parallax"></div>
    <div style="height: 1000px;
        background-color: red, font-size: 36px;">
    </div>
    <div class="parallax"></div>
</body>
</html>
```

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video positioning effect

```
<!DOCTYPE html>
<html>
<head>
<style>
div {
    width: 200px;
    height: 200px;
    background-color: red;
    animation-name: example;
    animation-duration: 4s;
    box-shadow: 4px solid blue;
    border-radius: 55px;
    border: 5px solid black;
}
#f1 {
    height: 150px;
    width: 150px;
}
```

@keyframes example {

```
0% {background-color: red;}
10% {background-color: yellow;}
20% {background-color: blue;}
30% {background-color: green;}
40% {background-color: red;}
50% {background-color: yellow;}
60% {background-color: blue;}
70% {background-color: green;}
80% {background-color: yellow;}
90% {background-color: white;}
100% {background-color: green;}
```

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```

</style>
</head>
<body>
<h1> CSS Animation </h1>
<div> </div>
<hr>
<br>
<div id="f1"> </div>
<p> <b> Note: </b> When an animation is finished  

it goes back to its original style. </p>
</body>
</html>

```

Animation

```

<!DOCTYPE HTML>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="x-ua-compatible" content="IE">
    <meta name="viewport">
    <title> Layout : </title>
    <style type="text/css">
        # {
            font-size: 20px;
            font-weight: bold;
        }
        #R1 {
            background-color: gray;
            height: 50px;
            padding-top: 20px;
        }
    </style>

```

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```
width: 98%;  
padding-left: 2%;  
margin-bottom: 10px;  
}
```

R2, # R5, # R6 {

```
background-color: gray;  
height: 33px;  
width: 100%;  
padding-top: 7px;  
text-align: center;  
margin-bottom: 10px;  
}
```

R3 {

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

}

R4 {

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

}

R4C2 {

```
height: 100px;  
width: 120px;  
border-radius: 20px;  
animation: rotate 10s infinite;  
position: relative;
```

}

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@keyframes rotate {

0% {

position: relative;

top: 0px;

left: 0px;

transform: rotate(0deg);

}

25% {

background-color: blue;

top: 400px;

left: 200px;

transform: rotate(60deg);

}

50% {

background-color: red;

top: 600px;

left: 500px;

transform: rotate(120deg);

}

75% {

background-color: green;

top: 300px;

left: 800px;

transform: rotate(180deg);

}

100% {

background-color: yellow;

top: 0px;

left: 900px;

transform: rotate(240deg);

}

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#R4 div {

```
float: left;  
height: 50 px;  
padding-top: 50 px;  
text-align: center;  
background-color: red;  
animation: rotate 10s infinite;  
}
```

```
</style>  
</head>  
<body>
```

```
  <div>  
    <div id = "R1"> Logo </div>  
    <div id = "R2"> Navigation </div>  
    <div id = "R3"> Heades / Bumnea </div>  
    <div id = "R4">  
      <div id = "R4C0"> </div>  
    </div>  
    <div id = "R5"> footer </div>  
    <div id = "R6"> footer(2) </div>  
  </div>  
</body>  
</html>
```

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Font awesome

```
<!DOCTYPE HTML>
<html>
<head>
<title> font awesome </title>
<link rel="stylesheet" href="http://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css" type="text/css">
<style type="text/css">
#i {
    font-size: 30px;
    color: green;
}
</style>
</head>
<body>

    cafe coffee guy </span> </h3>
<i class="fa fa-child" style="font-size: 50px;
color: blue;"> child hood guys </i> </h3>
<i class="fa fa-database" style="font-size: 50px;
color: yellow;"> database </i> </h3>
<i class="fa fa-paper-plane" style="font-size: 50px;
color: orange;"> do not use extra paper </i>
<i class="fa fa-paint-brush" style="font-size: 50px;
color: red;"> Brush must be acquired </i> </h3>
<i class="fa fa-envelope-o" style="font-size: 50px;
color: blue;"> Brush must be acquired </i> </h3>
<i class="fa fa-github" style="font-size: 50px;
color: pink;"> Brush must be acquired </i> </h3>
</body>
</html>
```

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```
<html>
<head>
    <title> Font Awesome </title>
    <link rel="stylesheet" type="text/css"
        href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css"/>
</head>
<center>
    <h1> text shadow </h1>
    <i class="fa fa-home" style="color: red;
        text-shadow: black;
        font-size: 50px;"></i> <br>
    <i class="fa fa-linkedin" style="color: red;
        text-shadow: blue; font-size: 50px;">
    </i> <br>
    <i class="fa fa-calendar" style="color: red;
        text-shadow: black; font-size: 50px;">
    </i> <br>
    <i class="fa fa-address-card-o" style="color: red;
        text-shadow: blue;
        font-size: 50px;"></i>
</center>
</body>
</html>
```

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TYPE CSS

```

<!DOCTYPE HTML>
<html lang="Eng">
<head>
    <title> CSS Type </title>
    <style type="text/css">
        div {
            background-color: green;
            height: 200px; width: 200px;
            color: white; font-size: 25px;
        }
        .divcls {
            background-color: blue;
            height: 200px; width: 200px;
            color: black; font-size: 25px;
        }
    </style>
</head>
<body>
    <div style="background-color: red;
                height: 200px; width: 200px;
                color: white; font-size: 25px;">
        Internal stylesheet - Tag Name </div> </body>
    <div> Internal stylesheet - Tag Name </div> </body>
    <div> Internal stylesheet - Tag Name </div> </body>
    <div class="divcls"> Internal - stylesheet - class
        name </div> </body>
    <div class="divcls"> Internal - stylesheet - class
        name </div> </body>
    <div style="background-color: yellow" class="divcls"
        id="D1"> Internal stylesheet - Id </div> </body>
</body>
</html>

```

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Media Query

```
<!DOCTYPE HTML>
<html>
<head>
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<style>
body {
background-color: lightgreen;
}
@media only screen and (max-width: 600px) {
body {
background-color: lightblue;
}
}
@media only screen and (min-width: 400px) {
body {
background-color: pink;
}
}
</style>
</head>
<body>


<b>skip the potatoes. </b> choose other vegetables  
that are packed with different nutrients and  
more slowly digested carbohydrates. </p>

![collage<br/>student](/img/collagimg2.jpg)
</body>
</html>
```

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```
<div class="col-sm-1 p-3 bg-primary text-white">.col</div>
<div class="col-sm-1 p-3 bg-dark text-white">.col</div>
</div>
<div class="row">
<div class="col-sm-4 p-3 bg-primary text-white">.col</div>
<div class="col-sm-4 p-3 bg-dark text-white">.col</div>
<div class="col-sm-4 p-3 bg-primary text-white">.col</div>
</div>
<div class="row">
<div class="col-sm-4 p-3 bg-primary text-white">.col</div>
<div class="col-sm-8 p-3 bg-dark text-white">.col</div>
</div>
<div class="row">
<div class="col-sm-6 p-3 bg-primary text-white">.col</div>
<div class="col-sm-6 p-3 bg-primary text-white">.col</div>
</div>
<div class="row">
<div class="col-sm-12 p-3 bg-primary text-white">.col</div>
</div>
</div>
</body>
</html>
```

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```
<!DOCTYPE html>
<html lang="en">
<head>
<title> Bootstrap Example </title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width,
initial-scale=1">
<link rel="stylesheet" href="https://cdn.jsdelivr.net/
npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">
<script src="https://cdn.jsdelivr.net/npm/jquery@3.6.3/dist/jquery.slim.min.js"></script>
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>
<div class="container">
<h2>Stucked form</h2>
<form action="/action_page.php">
<div class="form-group">
<label for="email">Email:</label>
<input type="email" class="form-control"
id="email" placeholder="Enter email" name="email">
</div>
<div class="form-group">
<label for="pwd">Password:</label>
<input type="password" class="form-control"
id="password" placeholder="Enter password"
name="password">
</div>

```

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```
<div class="form-group form-check">
  <label class="form-check-label">
    <input class="form-check-input" type="checkbox"
      name="remember">
    remember me
  </label>
</div>
<button type="submit" class="btn btn-primary">
  submit </button>
</form>
</div>
</body>
</html>
```

Javascript can change HTML Content

one of many Javascript HTML method is getElementById().

The example below "finds" an HTML element (with id="demo"), and changes the element content to "Hello Javascript".

```
<html>
<body>
<h2> what can Javascript Do? </h2>
<p id="demo"> Javascript can change HTML
content.</p>
<button type = "button" onclick = "document.get
ElementById('demo').innerHTML = 'Hello Javascript
click Me! '>
</button>
</body>
</html>
```

Javascript can change HTML Attribute values

In this example Javascript changes the value of the src(source) attribute of an img tag:

CDN: Content distribution network
CDN: Content delivery network

classmate

Date _____
Page 31

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```
<html>
<body>
<h2> what can Javascript Do? </h2>
<p> Javascript can change HTML attribute
value. </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-bulboff.gif'"> Turn off the light
</button>

</body>
</html>
```

Javascript can change HTML styles (css)

changing the style of an HTML element, is
a variant of changing an HTML attribute:

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```
<html>
<body>
<h2> what can Javascript Do? </h2>
<p id="demo"> Javascript can change the
style of an HTML element. </p>

<button type = "button"
onclick = "document.getElementById('demo')
.style.fontSize = '35px'"> click Me!
</button>
</body>
</html>
```

HTML Elements

Hiding HTML elements can be done by changing the display style:

```
<html>
<body>
<h2> what can Javascript Do? </h2>
<p id="demo"> Javascript can hide HTML
elements. </p>
<button type = "button"
onclick = "document.getElementById('demo')
.style.display = 'none'"> click Me!
</button>
</body>
</html>
```

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Show HTML Elements

Showing hidden HTML elements can also be done by changing the display style:

```
<html>
<body>
<h2> what can Javascript do? </h2>
<p> Javascript can show hidden HTML
elements. </p>
<p id="demo" style="display: none"> Hello
Javascript! </p>
<button type="button"
onclick="document.getElementById('demo').style.
display='block'"> Click Me!
</button>
</body>
</html>
```

* old Javascript examples may use a type attribute:

```
<script type="text/javascript">
```

The type attribute is not required. Javascript is the default scripting language in HTML.

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Javascript Functions and Events

A Javascript function is a block of Javascript code, that can be executed when "called" for.

For example,

a function can be called when an event occurs, like when the user clicks a button.

Javascript in <head> or <body>

You can place any number of scripts in an HTML document.

Scripts can be placed in the <body>, or in the <head> section of an HTML page, or in both.

Javascript in <head>

In this example, a Javascript function is placed in the <head> section of an HTML page.

The function is invoked when a button is clicked.

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```
<!DOCTYPE html>
<html>
<head>
<script>
function myFunction() {
    document.getElementById("demo").innerHTML =
        "paragraph changed."
}

</script>
</head>
<body>
<h2> Demo Javascript in Head </h2>
<p id="demo"> A paragraph </p>
<button type="button"
        onclick="myFunction()"> Try it </button>
</body>
</html>
```

Javascript in <body>

in this example, a Javascript function is placed in the <body> section of an HTML page.

The function is invoked when a button is clicked:

22/09/2023

classmate
Date _____
Page _____

```
<!DOCTYPE Html>
<html>
<body>
<h2> Demo Javascript in Body </h2>
<p id="demo"> A paragraph </p>
<button type="button"
        onclick="myfunction()> Try it </button>
<script>
    function myfunction(){
        document.getElementById("demo").innerHTML =
            "Paragraph changed."
    }
</script>
</body>
</html>
```

External Javascript

Scripts can also be placed in external files:

```
function myfunction(){
    document.getElementById("demo").innerHTML =
        "Paragraph changed."
}
```

External scripts are practical when the same code is used in many different web pages.

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Javascript file have the file extension .js

To use an external script, put the name of the script file in the src attribute of a <script> tag:

Example :-

```
<html>
<body>
<h2> Demo External Javascript </h2>
<p id="demo"> A paragraph. </p>
<button type="button"
        onclick="myFunction()"> Try it </button>
<p> This example links to "myscript.js". </p>
<p> (my function is stored in "myscript.js") </p>
<script src="myscript.js"></script>
</body>
</html>
```

you can place an external script reference in <head> or <body> as you like.

The script will behave as if it was located exactly where the <script> tag is located.

External scripts cannot contain <script> tags.

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Javascript Display possibilities

- writing into an HTML element , using innerHTML
- writing into the HTML output using document.write()
- writing into an alert box , using window.alert()
- writing into an browser console , using console.log()

Using innerHTML

```
<html>
<body>
<h1> My first web page </h1>
<p> My first paragraph </p>

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

<script> document.getElementById ("demo")
    .innerHTML = s + c;
</script>

</body>
</html>
```

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using document.write()

```
<html>
<body>
<h1> My first web page </h1>
<p> My first paragraph </p>
<script> document.write(s+t);</script>
</body>
</html>
```

delete all existing HTML

```
<!DOCTYPE html>
<html>
<body>
<h1> My first web page </h1>
<p> My first paragraph </p>
<button type = "button"
        onclick = "document.write(s+t)"> try it
</button>
</body>
</html>
```

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using window.clear()

```
<html>
<body>
<h1> My first web page </h1>
<p> My first paragraph. </p>
<script> window.clear('s+c'); </script>
</body>
</html>
```

you can skip the window keyword.

In Javascript, the window object is the global scope object. This means that variables, properties and methods by default belong to the window object.

```
<!DOCTYPE html>
<html>
<body>
<h1> My first web page </h1>
<p> My first paragraph. </p>
<script> clear('s+c'); </script>
</body>
</html>
```

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using console.log()

```
<!DOCTYPE html>
<html>
<body>
<script> console.log(5+6); </script>
</body>
</html>
```

Java script Paint

Javascript does not have any paint object or paint methods.

You cannot access output devices from Javascript.

The only exception is that you can call the window.paint() method in the browser to print the content of the current window.

```
<!DOCTYPE html>
<html>
<body>
<button> onclick = "window.print()" > print this page </button>
</body>
</html>
```

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Javascript statements

values, operators, Expressions, keywords and comments.

```
<html>
<body>
<h2> Javascript statements </h2>
<p> In HTML, Javascript statements are
executed by the browser. </p>
<p id = "demo" ></p>
<script>
document.getElementById("demo").innerHTML =
"Hello Dolly."
</script>
</body>
</html>
```

variables

In a programming language, variables are used to store data values.

- Javascript uses the keywords var, let and const to declare variables.

An equal sign is used to assign values to variables.

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```
<html>
<body>
<h2> Javascript variables </h2>
<p> In this example, x is defined as a
variable.
Then, x is assigned the value of 6' </p>
<p id="demo"></p>
<script>
let x;
x = 6;
document.getElementById("demo").innerHTML = x;
</script>
</body>
</html>
```

Single line comments

```
<html>
<head>
<body>
<h1 id="myH"></h1>
<p id="myP"></p>
<script>
// change heading:
document.getElementById("myH").innerHTML =
"Javascript comments";
// change paragraph:
document.getElementById("myP").innerHTML =
"My first paragraph.";
</script>
</body>
</html>
```

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Multi-line comments

```
<html>
<body>
  <h2> Javascript comment </h2>
  <h1 id="myH"></h1>
  <p id="myP"></p>
  <script>
    //document.getElementById("myH").innerHTML =
    "My first page";
    document.getElementById("myP").innerHTML =
    "My first paragraph."
  </script>
  <p>The line starting with // is not executed.
  </p>
</body>
</html>
```

JavaScript Variables

4 ways to declare a JavaScript variable:

- using var
- using let
- using const
- using nothing

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```
<!DOCTYPE html>
<html>
<body>
<h1> Javascript variables </h1>
<p> In this example , x , y , and z are
variables. </p>
<p id = "demo" > </p>
<script>
var x = 5;
var y = 6;
var z = x + y;
document . getElementById (" demo " ). innerHTML =
"The value of z is : " + z ;
</script>
</body>
</html>
```

Using let

```
<!DOCTYPE html>
<html>
<body>
<h1> Javascript variables </h1>
<p> In this example , x , y and z are
variables. </p>
<p id = "demo" > </p>
<script>
let x = 5;
let y = 6;
let z = x + y;
```

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```
document.getElementById("demo").innerHTML =  
    "The value of z is :" + z;  
</script>  
</body>  
</html>
```

```
<!DOCTYPE html>  
<html>  
<body>  
<h1> JavaScript variables </h1>  
<p> In this example , x , y , and z - are undeclared  
variables. </p>
```

```
<p id = "demo" ></p>  
<script>  
x = 5;  
y = 6;  
z = x + y;
```

```
document.getElementById("demo").innerHTML =  
    "The value of z is :" + z;  
</script>  
</body>  
</html>
```

using const

```
<!DOCTYPE html>  
<html>  
<body>  
<h2> Javascript const </h2>  
<p id = "demo" ></p>
```

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```

<script>
try {
    const pi = 3.141592653589793;
    pi = 3.14;
}
catch (err) {
    document.getElementById("demo").innerHTML = err;
}
</script>
</body>
</html>

```

Types of Javascript Operators

Arithmetic operators

Assignment operators

Comparison operators

Logical operators

Conditional operators

Type operators

```

<html>
<body>
<p id="demo"></p>
<script>
let a=3;
let x=(100+50)*a;
document.getElementById("demo").innerHTML=x;
</script>
</body>
</html>

```

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```
<!DOCTYPE html>
<html>
<body>
<h1> JavaScript operators </h1>
<p id="demo"></p>
<script>
let text1 = "what a very ";
text1 += " nice day";
document.getElementById("demo").innerHTML = text1;
</script>
</body>
</html>
```

Adding strings and Numbers

```
<html>
<body>
<h1> JavaScript operators </h1>
<p id="demo"></p>
<script>
let x = 5 + 5;
let y = '5' + 5;
let z = "Hello" + 5;
document.getElementById("demo").innerHTML =
x + "<br>" + y + "<br>" + z;
</script>
</body>
</html>
```

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Loops

```
<!DOCTYPE html>
<html>
<body>
<h2> Javascript For Loop </h2>
<p id="demo"></p>
<script>
const cars = ["BMW", "Volvo", "Saab", "Ford", "Fiat",
    "Budi Ji"];
let text = "";
for (let i=0; i < cars.length; i++) {
    text += cars[i] + "<br>";
}
document.getElementById("demo").innerHTML = text;
</script>
</body>
</html>
```

For Loops

```
<html>
<body>
<h2> Javascript For Loops </h2>
<p id="demo"></p>
<script>
const cars = ["BMW", "Volvo", "Saab", "Ford"];
let i, len, text;
for (i=0, len=cars.length, text = ""; i < len; i++) {
    text += cars[i] + "<br>";
}

```

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```
document.getElementById("demo").innerHTML = `<script>
</script>
</body>
</html>
```

The For in loop

```
<!DOCTYPE HTML>
<html>
<body>
<h2> Javascript For In Loop </h2>
<p id="demo"></p>
<script>
const person = { fname: "John", lname: "Doe", age: 35 };
let txt = "";
for (let x in person) {
  txt += person[x] + " ";
}
document.getElementById("demo").innerHTML = txt;
</script>
</body>
</html>
```

- The for in loop iterates over a person object
- Each iteration return a key (x)
- The key is used to access the value of the key.
- The value of the key is person(x)

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For In over Arrays

```

<html>
<body>
<h2> Javascript For In </h2>
<p id="demo"></p>
<script>
const numbers = [45, 4, 9, 16, 25];
let txt = "";
for (let x in numbers) {
    txt += numbers[x] + "<br>";
}
document.getElementById("demo").innerHTML = txt;
</script>
</body>
</html>

```

Array, For Each()

```

<html>
<body>
<h2> Javascript </h2>
<p id="demo"></p>
<script>
const numbers = [45, 4, 9, 16, 25];
let txt = "";
numbers.forEach(myFunction);
document.getElementById("demo").innerHTML = txt;
function myFunction(value, index, array) {
    txt += value + "<br>";
}
</script> </body> </html>

```

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The For of Loop

```
<html>
<body>
<h2> Javascript For of Loop </h2>
<p id="demo"></p>
<script>
const cars = ["BMW", "Volvo", "Mini"];
let text = "";
for (let x of cars) {
    text += x + "<br>";
}
document.getElementById("demo").innerHTML = text;
</script>
</body>
</html>
```

Looping over an Array

```
<html>
<body>
<h2> Javascript For of Loop </h2>
<p id="demo"></p>
<script>
const cars = ["BMW", "Volvo", "Mini"];
let text = "";
for (let x of cars) {
    text += x + "<br>";
}
document.getElementById("demo").innerHTML = text;
</script> </body> </html>
```

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Type Conversion :-

Converting strings to Numbers

Converting numbers to strings

Converting Dates to Numbers

Converting Numbers to Dates

Converting Booleans to Numbers

Converting Numbers to Booleans

Converting strings to number

```
<html>
<body>
<h1> Numbers </h1>
<h2> The Number() Method </h2>
<p id = "demo"></p>
<script>
document.getElementById('demo').innerHTML =
Number("3.14") + "<br>" +
Number(Math.PI) + "<br>" +
Number(" ") + "<br>" +
Number("") + "<br>" +
Number("99 88") + "<br>" +
Number("John") + "<br>" +
</script>
</body>
</html>
```

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Converting Numbers to strings

```
<html>
<head>
</head>
<body>
<h2> The Javascript string() Method </h2>
<p id = "demo"></p>
<script>
let x = 123;
document.getElementById("demo").innerHTML =
String(x) + "<br>" +
String(123) + "<br>" +
String(100+23);
</string> </script>
</body>
</html>
```

toString

```
<html>
<body>
<h2> Number Method </h2>
<p id = "demo"></p>
<script>
let x = 123;
document.getElementById("demo").innerHTML =
x.toString() + "<br>" +
(123).toString() + "<br>" +
(100+23).toString();
</script> </body> </html>
```

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Converting Dates to strings

```

<html>
  <head>
  </head>
  <body>
    <h2> The Javascript Dates </h2>
    <p id="demo" ></p>
    <script>
      let x = 25/05/2023;
      document.getElementById("demo").innerHTML =
        string(date) + "<br>" +
        string(x) + "<br>" +
        string(100 + 35);
    </script>
  </body>
</html>

```

Automatic Type Conversion

```

<html>
  <body>
    <h2> Type conversion </h2>
    <p id="demo" ></p>
    <script>
      document.getElementById("demo").innerHTML =
        (s + null) + "<br>" +
        ("s" + null) + "<br>" +
        ("s" + 2) + "<br>" +
        ("s" - 2) + "<br>" +
        ("s" + "2") + "<br>" +
        ("s" / "2") + "<br>"
    </script>
  </body>
</html>

```

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```
</script>
</body>
</html>
```

The While Loop

```
<html>
<body>
<h2> Javascript while Loop </h2>
<p id="demo"></p>
<script>
let text = "";
let i = 0;
while (i < 10) {
    text += "<b> The number is " + i;
    i++;
}
document.getElementById("demo").innerHTML = text;
</script>
</body>
</html>
```

The Do while Loop

```
<html>
<body>
<h2> Javascript Do while Loop </h2>
<p id="demo"></p>
<script>
let text = "";
let i = 0;
```

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```
do {
    text += "<b> The number is " + i;
    i++;
}
while (i < 10);
document.getElementById("demo").innerHTML = text;
</script>
</body>
</html>
```

Comparing for und while

```
<html>
<body>
<p id="demo"></p>
<script>
const cars = ["BMW", "Volvo", "Saab", "Ford"];
let i = 0;
let text = "";
for (; cars[i]); {
    text += cars[i] + "<b>";
    i++;
}
document.getElementById("demo").innerHTML = text;
</script>
</body>
</html>
```

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The break Statement

```

<html>
<body>
<h2> Javascript Loops </h2>
<p> A loops with a <b> break </b> Statement. </p>
<p id = "demo"></p>
<script>
let text = " ";
for (let i=0; i<10; i++) {
    if (i==3) { break; }
    text += " the number is " + i + "<br>";
}
document.getElementById("demo").innerHTML = text;
</script>
</body>
</html>

```

The continue Statement

```

<html>
<body>
<h2> Javascript Loops </h2>
<p id = "demo"></p>
<script>
let text = " ";
for (let i=0; i<10; i++) {
    if (i==3) { continue; }
    text += " the number is " + i + "<br>";
}
</script>

```

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```
document.getElementById("demo").innerHTML = text;  
</script>  
</body>  
</html>
```

DOM Methods

```
<html>  
<body>  
<h2> My first page </h2>  
<p id="demo"></p>  
<script>  
document.getElementById("demo").innerHTML = "Hello  
world!";  
</script>  
</body>  
</html>
```

DOM Document Object

The document object represents your web page.

If you want to access any element in an HTML page, you always start with accessing the document object.

Below are some examples of how you can use the document object to access and manipulate HTML.

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DOM Elements

```
<html>
<body>
<h2> Javascript HTML DOM </h2>
<p id="intro"> finding HTML Element by Id </p>
<p id="demo"></p>
<script>
const element = document.getElementById("intro");
document.getElementById("demo").innerHTML =
"The Text from the intro paragraph is : " +
element.innerHTML;
</script>
</body>
</html>
```

```
<html>
<body>
<h2> Javascript HTML DOM </h2>
<div id="main">
</div>
<p id="demo"></p>
<script>
const x = document.getElementById("main");
const y = x.getElementsByTagName("p");
document.getElementById("demo").innerHTML =
"The First Paragraph (index 0) inside " main " is :
" + y[0].innerHTML;
</script>
</body>
</html>
```

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changing HTML Content

```
<html>
<body>
<h2> Javascript can change HTML </h2>
<p id = "P1"> Hello world </p>
<script>
document.getElementById("P1").innerHTML = "New text";
</script>
<p> The paragraph above was changed by a
script. </p>
</body>
</html>
```

changing HTML style

```
<html>
<body>
<h2> Javascript HTML DOM </h2>
<p id = "P1"> Hello world </p>
<p id = "P2"> Hello world </p>
<script>
document.getElementById("P2").style.color = "blue";
document.getElementById("P2").style.fontFamily =
"Arial";
document.getElementById("P2").style.fontSize =
"14px";
</script>
</body>
</html>
```

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```
<html>
<body>
<h1 id="id1"> My Heading 1 </h1>
<button type="button"
        onclick="document.getElementById('id1').style.
        color = 'red'"> Click Me! </button>
</body>
</html>
```

Reacting to events

```
<html>
<body>
<h2> Javascript HTML Events </h2>
<h2 onclick="this.innerHTML='oops!'"> Click on
this text! </h2>
</body>
</html>
```

```
<html>
<body>
<h2> Javascript HTML Events </h2>
<h2 onclick="changeText(this)"> Click on this
text! </h2>
<script>
function changeText(id) {
    id.innerHTML = "oops!";
}
</script>
</body>
</html>
```

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JQuery

JQuery is a Javascript library.

JQuery greatly simplifies Javascript programming.

JQuery is easy to learn

```
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/
JQuery/3.6.3/JQuery.min.js">
</script>
<script>
$(document).ready(function() {
    $("p").click(function() {
        $(this).hide();
    });
});
</script>
</head>
<body>


If you click on me, I will disappear.



click me away!



click me too!


</body>
</html>
```

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JQuery CON

```
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/
jquery/3.6.3/jquery.min.js">
</script>
<script>
$(document).ready(function() {
    $("button").click(function() {
        $("p").hide();
    });
});
</script>
</head>
<body>
<h2>This is a heading </h2>
<p>This is a paragraph. </p>
<p>This is another paragraph. </p>
<button> click me </button>
</body>
</html>
```

JQuery Selectors

The element selector

The # id selector

The . class selector

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The element selector

`$("p")`

```
<html>
<head>
<script>
src = "https://ajax.googleapis.com/ajax/libs/jquery/3.6.3/jquery.min.js"></script>
<script>
$(document).ready(function() {
  $("button").click(function() {
    $("p").hide();
  });
});
</script>
</head>
<body>
<h2>This is a heading </h2>
<p>This is a paragraph </p>
<p>This is another paragraph. </p>
<button> Click me to hide paragraph. </button>
</body>
</html>
```

The jquery element selector selects element based on the element name.

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The # id selector

The jquery #id selector uses the id attribute of an HTML tag to find the specific element.

```
<!DOCTYPE html>
<html>
<head>
<script>
src = "https://ajax.googleapis.com/ajax/libs/
jquery/3.6.3/jquery.min.js"></script>
<script>
$(document).ready(function () {
    $("button").click(function () {
        $("#test").hide();
    });
});
</script>
</head>
<body>
<h2>This is a heading </h2>
<p>This is a paragraph. </p>
<p id='test'>This is another paragraph. </p>
<button> Click me </button>
</body>
</html>
```

The .class selector

The jquery .class selector finds elements with a specific class.

```
$(":test")
```

```
<!DOCTYPE html>
<html>
<head>
<script>
src : "https://ajax.googleapis.com/ajax/libs/
jquery/3.6.3/jquery.min.js" ></script>
<script>
$(document).ready(function() {
    $("button").click(function () {
        $(".test").hide();
    });
});
</script>
</head>
<body>
<h2 class = "test">this is a heading</h2>
<p class = "test">This is a paragraph.</p>
<p>This is another paragraph.</p>
<button>click me</button>
</body>
</html>
```

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JQuery Event Methods

Mouse Event	Keyboard Events	Form Events	Document Event
click	keypress	submit	load
dblclick	keydown	change	resize
mouseenter	keyup	focus	scroll
mouseleave		blur	unload

Commonly used jquery Event Methodclick()

```

<html>
  <head>
    <script>
      src = "https://ujjux.googleapis.com/ujjux/libs/jquery/
3.6.3/jquery.min.js"
    </script>
    <script>
      $(document).ready(function() {
        $("a").click(function() {
          $(this).hide();
        });
      });
    </script>
  </head>
  <body>
    <p>click me ujjux!</p>
  </body> </html>

```

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classmate

Date
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dblclick()

```
<html>
<head>
<script>
src = "https://ujux.googleapis.com/ujux/libs/
jquery/3.6.3/jquery.min.js"
</script>
<script>
$(document).ready(function() {
  $("p").dblclick(function() {
    $(this).hide();
  });
});
</script>
</head>
<body>


If you double-click on me, I will disappear



click me away!



click me too!


</body>
</html>
```

mouseenter()

```
<html>
<head>
<script>
src = "https://ujux.googleapis.com/ujux/libs/jquery/
3.6.3/jquery.min.js"
</script>
```

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```
$(document).ready(function() {
    $("#p1").mouseenter(function() {
        alert("you entered p1!");
    });
});
</script>
</head>
<body>
<p id="p1">Enter this paragraph. </p>
</body>
</html>
```

mouseleave()

```
<html>
<head>
<script>
src: "https://ajax.googleapis.com/ajax/libs/
jquery/3.6.3/jquery.min.js" </script>
<script>
$(document).ready(function() {
    $("#p1").mouseleave(function() {
        alert("Bye! you now leave p1!");
    });
});
</script>
</head>
<body>
<p id="p1">This is a paragraph. </p>
</body>
</html>
```

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mousedown()

```
<html>
<head>
<script>
src = "https://ajax.googleapis.com/ajax/libs/
jquery/3.6.3/jquery.min.js"></script>
<script>
$(document).ready(function () {
    $("#p1").mousedown(function () {
        alert ("Mouse down over p1!");
    });
});
</script>
</head>
<body>
<p id = "p1"> This is a paragraph.</p>
</body>
</html>
```

mouseup()

```
<html>
<head>
<script>
src = "https://ajax.googleapis.com/ajax/libs/
jquery/3.6.3/jquery.min.js"></script>
<script>
$(document).ready(function () {
    $("#p1").mouseup(function () {
        alert ("Mouse up over p1!");
    });
});
```

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```
    });
}
</script>
</head>
<body>
<p id="p1"> This is a paragraph </p>
</body>
</html>
```

hover()

```
<html>
<head>
<script
src = "https://ajax.googleapis.com/ajax/libs/
jquery/3.6.3/jquery.min.js"></script>
<script>
$(document).ready(function () {
    $("#p1").hover(function () {
        alert("you entered p1!");
    },
    function () {
        alert("Bye! You now leave p1!");
    });
});
</script>
</head>
<body>
<p id="p1"> This is a paragraph. </p>
</body>
</html>
```

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Focus()

```
<html>
<head>
<script>
src = "https://ajax.googleapis.com/ajax/libs/
jquery/3.6.3/jquery.min.js"></script>
<script>
$(document).ready(function() {
    $("input").focus(function() {
        $(this).css("background-color", "yellow");
    });
    $("input").blur(function() {
        $(this).css("background-color", "green");
    });
});
</script>
</head>
<body>
Name: <input type="text" name="fullname"><br>
Email: <input type="text" name="email">
</body>
</html>
```

blur()

The blur() method attaches an event handler function to an HTML form field.

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```
<html>
<head>
<script>
src = "https://ajax.googleapis.com/ajax/libs/jquery/
3.6.3/jquery.min.js"></script>
<script>
$(document).ready(function() {
  $('input').focus(function() {
    $(this).css("background-color", "yellow");
  });
  $('input').blur(function() {
    $(this).css("background-color", "green");
  });
});
</script>
</head>
<body>
Name : <input type = "text"
name = "fullname"><br>
Email : <input type = "text" name = "email">
</body>
</html>
```

The on() method

```
<html>
<head>
<script>
src = "https://ajax.googleapis.com/ajax/libs/jquery/
3.6.3/jquery.min.js"></script>
<script>
```

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```
$(document).ready(function() {
    $("p").on({
        mouseenter: function() {
            $(this).css("background-color", "lightgray");
        },
        mouseleave: function() {
            $(this).css("background-color", "lightblue");
        },
        click: function() {
            $(this).css("background-color", "yellow");
        }
    });
})�
</script>
</head>
<body>
<p> click or move the mouse pointer over this paragraph. </p>
</body>
</html>
```

jQuery hide() and show()

```
<html>
<head>
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.3/jquery.min.js"></script>
<script>
```

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```
$ (document). ready (function () {  
    $("#hide"). click (function () {  
        $("p"). hide ();  
    });  
    $("#show"). click (function () {  
        $("p"). show ();  
    });  
});  
</script>  
</head>  
<body>  
<p> If you click on the Hide button, I will  
disappear. </p>  
<button id = "hide"> Hide </button>  
<button id = "show"> Show </button>  
</body>  
</html>
```

jQuery toggle()

```
<html>  
<head>  
<script  
src = "https://ajax.googleapis.com/ajax/libs/jquery/  
3.6.3/jquery.min.js"></script>  
<script>  
$(document). ready (function () {  
    $("button"). click (function () {  
        $("p"). toggle ();  
    });  
});  
});
```

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```

</script>
</head>
<body>
<button> Toggle between hiding and showing
the paragraphs </button>
<p> This is a paragraph with little content. </p>
<p> This is another small paragraph. </p>
</body>
</html>

```

jQuery Fading Method

`fadeIn()`

`fadeOut()`

`fadeToggle()`

`fadeTo()`

fadeIn()

```

<html>
<head>
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/
3.6.3/jquery.min.js"></script>
<script>
$(document).ready(function() {
    $("button").click(function() {
        $("#div1").fadeIn();
        $("#div2").fadeIn("slow");
        $("#div3").fadeIn('3000');
    });
});

```

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```
});  
</script>  
</head>  
<body>  
<p> Demonstrate fadeIn() with different  
parameters. </p>  
<button> click to fade in boxes </button>  
<b></b>  
<div id="div 1"  
style = "width: 80px; height: 80px; display: none;  
background-color: red;"></div><b></b>  
<div id="div 2"  
style = "width: 80px; height: 80px; display: none;  
background-color: green;"></div><b></b>  
<div id="div 3"  
style = "width: 80px; height: 80px; display: none;  
background-color: blue;"></div>  
</body>  
</html>
```

JQuery Animation

```
<html>  
<head>  
<script  
src = "https://ajax.googleapis.com/ajax/libs/  
jquery/3.6.3/jquery.min.js"></script>  
</script>  
$(document).ready(function () {  
    $("button").click(function () {  
        $("div").animate({ left: '250px' });  
    })  
})
```

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```

});  

});  

</script>  

</head>  

<body>  

<button> start Animation </button>  

<div  

style : "background : green ; height : 100px ;  

width : 100px ; position : absolute ;"></div>  

</body>  

</html>

```

jQuery Stop Animations

```

<html>  

<head>  

<script>  

src = "https://ugurc.googleapis.com/ajax/libs/jquery/  

3.6.3/jquery.min.js"></script>  

<script>  

$(document).ready(function () {  

    $("#flip").click(function () {  

        $("#panel").slideDown(5000);  

    });  

    $("#stop").click(function () {  

        $("#panel").stop();  

    });  

});  

</script>

```

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```
<style>
#panel, #flip {
    padding: 5px;
    font-size: 18px;
    text-align: center;
    background-color: #555;
    color: white;
    border: solid 1px #666;
    border-radius: 3px;
}
```

```
#panel {
    padding: 50px;
    display: none;
}
```

```
</style>
</head>
<body>
<button id="stop">stop sliding </button>
<div id="flip">click to side down panel </div>
<div id="panel">Hello world! </div>
</body>
</html>
```

with callback

```
<html>
<head>
<script>
src = "https://uijux.googleapis.com/uuiux/libs/
jquery/3.6.3/jquery.min.js"></script>
<script>
```

```
$ (document).ready (function () {
    $("p").hide ("slow", function () {
        $("button").click (function () {
            alert ("The paragraph is now hidden");
        });
    });
});
</script>
</head>
<body>
<button> Hide </button>
<p> This is a paragraph with little content.
</p>
</body>
</html>
```

jQuery Method Chaining

The `css()`, `slideUp()` and `slideDown()` methods.

The "p" element first changes to red, then it slides up, and then it slides down.

jQuery throws away extra whitespace and executes the lines above as one long line of code.

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```
<html>
<head>
<script>
src = "https://ajax.googleapis.com/ajax/libs/
jquery/3.6.3/jquery.min.js"></script>
<script>
$(document).ready(function() {
    $("button").click(function() {
        $("#p1").css("color", "red")
        .slideUp(2000)
        .slideDown(2000);
    });
});
</script>
</head>
<body>


jQuery is fun!!


<button> Click me </button>
</body>
</html>
```