• What is jQuery?

(Ans): jQuery is a lightweight, "write less, do more", JavaScript library.

The purpose of jQuery is to make it much easier to use JavaScript on your website.

jQuery takes a lot of common tasks that require many lines of JavaScript code to accomplish, and wraps them into methods that you can call with a single line of code.

jQuery also simplifies a lot of the complicated things from JavaScript, like AJAX calls and DOM manipulation.

jQuery is a fast, small, and feature-rich JavaScript library. It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers. With a combination of versatility and extensibility, jQuery has changed the way that millions of people write JavaScript.

• How to Apply CSS Using JQuery, How to Add Class and Remove Class in Jquery , JQuery Animation?

(Ans):

1. addClass() - Adds one or more classes to the selected elements.
2. removeClass() - Removes one or more classes from the selected elements.

[AddClass]

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8">

<title>Adding a Class to the Elements in jQuery</title>

<style>

.page-header{

color: red;

text-transform: uppercase;

}

.highlight{

background: yellow;

}

.hint{

font-style: italic;

}

</style>

<script src="https://code.jquery.com/jquery-3.5.1.min.js"></script>

<script>

$(document).ready(function(){

$("button").click(function(){

$("h1").addClass("page-header");

$("p.hint").addClass("highlight");

});

});

</script>

</head>

<body>

<h1>Demo Text</h1>

<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit...</p>

<p class="hint"><strong>Tip:</strong> Lorem Ipsum is dummy text.</p>

<button type="button">Add Class</button>

</body>

</html>

[RemoveClass]

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8">

<title>Removing Classes from the Elements in jQuery</title>

<style>

.page-header{

color: red;

text-transform: uppercase;

}

.highlight{

background: yellow;

}

.hint{

font-style: italic;

}

</style>

<script src="https://code.jquery.com/jquery-3.5.1.min.js"></script>

<script>

$(document).ready(function(){

$("button").click(function(){

$("h1").removeClass("page-header");

$("p").removeClass("hint highlight");

});

});

</script>

</head>

<body>

<h1 class="page-header">Demo Text</h1>

<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit...</p>

<p class="hint highlight"><strong>Tip:</strong> Lorem Ipsum is dummy text.</p>

<button type="button">Remove Class</button>

</body>

</html>

[JQuery Animation]

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8">

<title>Example of jQuery Animation Effects</title>

<script src="https://code.jquery.com/jquery-3.5.1.min.js"></script>

<style>

img{

position: relative; /\* Required to move element \*/

}

</style>

<script>

$(document).ready(function(){

$("button").click(function(){

$("img").animate({

left: 300

});

});

});

</script>

</head>

<body>

<button type="button">Start Animation</button>

<p>

<img src="/examples/images/mushroom.jpg" alt="Mushroom">

</p>

</body>

[CSS using jQuery]

<!DOCTYPE html>

<html>

<head>

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.1/jquery.min.js"></script>

<script>

$(document).ready(function(){

$("button").click(function(){

$("p").css("background-color", "yellow");

});

});

</script>

</head>

<body>

<h2>This is a heading</h2>

<p style="background-color:#ff0000">This is a paragraph.</p>

<p style="background-color:#00ff00">This is a paragraph.</p>

<p style="background-color:#0000ff">This is a paragraph.</p>

<p>This is a paragraph.</p>

<button>Set background-color of p</button>

</body>

</html>

• How to create slider with animation?

(Ans):

<style>

\* {box-sizing: border-box}

body {font-family: Verdana, sans-serif; margin:0}

.mySlides {display: none}

img {vertical-align: middle;}

/\* Slideshow container \*/

.slideshow-container {

max-width: 1000px;

position: relative;

margin: auto;

}

/\* Next & previous buttons \*/

.prev, .next {

cursor: pointer;

position: absolute;

top: 50%;

width: auto;

padding: 16px;

margin-top: -22px;

color: white;

font-weight: bold;

font-size: 18px;

transition: 0.6s ease;

border-radius: 0 3px 3px 0;

user-select: none;

}

/\* Position the "next button" to the right \*/

.next {

right: 0;

border-radius: 3px 0 0 3px;

}

/\* On hover, add a black background color with a little bit see-through \*/

.prev:hover, .next:hover {

background-color: rgba(0,0,0,0.8);

}

/\* Caption text \*/

.text {

color: #f2f2f2;

font-size: 15px;

padding: 8px 12px;

position: absolute;

bottom: 8px;

width: 100%;

text-align: center;

}

/\* Number text (1/3 etc) \*/

.numbertext {

color: #f2f2f2;

font-size: 12px;

padding: 8px 12px;

position: absolute;

top: 0;

}

/\* The dots/bullets/indicators \*/

.dot {

cursor: pointer;

height: 15px;

width: 15px;

margin: 0 2px;

background-color: #bbb;

border-radius: 50%;

display: inline-block;

transition: background-color 0.6s ease;

}

.active, .dot:hover {

background-color: #717171;

}

/\* Fading animation \*/

.fade {

animation-name: fade;

animation-duration: 1.5s;

}

@keyframes fade {

from {opacity: .4}

to {opacity: 1}

}

/\* On smaller screens, decrease text size \*/

@media only screen and (max-width: 300px) {

.prev, .next,.text {font-size: 11px}

}

</style>

</head>

<body>

<div class="slideshow-container">

<div class="mySlides fade">

<div class="numbertext">1 / 3</div>

<img src="img\_nature\_wide.jpg" style="width:100%">

<div class="text">Caption Text</div>

</div>

<div class="mySlides fade">

<div class="numbertext">2 / 3</div>

<img src="img\_snow\_wide.jpg" style="width:100%">

<div class="text">Caption Two</div>

</div>

<div class="mySlides fade">

<div class="numbertext">3 / 3</div>

<img src="img\_mountains\_wide.jpg" style="width:100%">

<div class="text">Caption Three</div>

</div>

<a class="prev" onclick="plusSlides(-1)">❮</a>

<a class="next" onclick="plusSlides(1)">❯</a>

</div>

<br>

<div style="text-align:center">

<span class="dot" onclick="currentSlide(1)"></span>

<span class="dot" onclick="currentSlide(2)"></span>

<span class="dot" onclick="currentSlide(3)"></span>

</div>

<script>

let slideIndex = 1;

showSlides(slideIndex);

function plusSlides(n) {

showSlides(slideIndex += n);

}

function currentSlide(n) {

showSlides(slideIndex = n);

}

function showSlides(n) {

let i;

let slides = document.getElementsByClassName("mySlides");

let dots = document.getElementsByClassName("dot");

if (n > slides.length) {slideIndex = 1}

if (n < 1) {slideIndex = slides.length}

for (i = 0; i < slides.length; i++) {

slides[i].style.display = "none";

}

for (i = 0; i < dots.length; i++) {

dots[i].className = dots[i].className.replace(" active", "");

}

slides[slideIndex-1].style.display = "block";

dots[slideIndex-1].className += " active";

}

</script>