

Module (jQuery Basic, Effects & Advanced) – 5

1. What is jQuery?

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.

The jQuery library contains the following features:

- HTML/DOM manipulation
- CSS manipulation
- HTML event methods
- Effects and animations
- AJAX
- Utilities

2. How to Apply CSS Using JQuery, How to Add Class and Remove Class in JQuery , JQuery Animation?

jQuery has several methods for CSS manipulation. We will look at the following methods:

- `addClass()` - Adds one or more classes to the selected elements
- `removeClass()` - Removes one or more classes from the selected elements
- `toggleClass()` - Toggles between adding/removing classes from the selected elements
- `css()` - Sets or returns the style attribute

- **jQuery addClass() Method**

- The following example shows how to add class attributes to different elements. Of course you can select multiple elements, when adding classes:

- Example

```
$("#button").click(function(){
    $("h1, h2, p").addClass("blue");
    $("div").addClass("important");
});
```

- **jQuery removeClass() Method**

- The following example shows how to remove a specific class attribute from different elements:

- Example

```
$("#button").click(function(){
    $("h1, h2, p").removeClass("blue");
});
```

jQuery animate() Method

Example

"Animate" an element, by changing its height:

```
$("#button").click(function(){  
    $("#box").animate({height: "300px"});  
});
```

3. How to create slider with animation?

jQuery slideToggle() Method

The jQuery slideToggle() method toggles between the slideDown() and slideUp() methods. If the elements have been slid down, slideToggle() will slide them up. If the elements have been slid up, slideToggle() will slide them down.

```
$(selector).slideToggle(speed,callback);
```

The optional speed parameter can take the following values: "slow", "fast", milliseconds. The optional callback parameter is a function to be executed after the sliding completes.