





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.

The jQuery library contains the following features:

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

jQuery Syntax



The jQuery syntax is tailor-made for **selecting** HTML elements and performing some **action** on the element(s).

Basic syntax is: **`$(selector).action()`**

- ✓ A \$ sign to define/access jQuery
- ✓ A (*selector*) to "query (or find)" HTML elements
- ✓ A jQuery *action()* to be performed on the element(s)

Examples:

`$(this).hide()` - hides the current element.

`$("p").hide()` - hides all <p> elements.

`$(".test").hide()` - hides all elements with class="test".

`$("#test").hide()` - hides the element with id="test".



jQuery Selectors

jQuery selectors are one of the most important parts of the jQuery library.

jQuery selectors allow you to select and manipulate HTML element(s).

jQuery selectors are used to "find" (or select) HTML elements based on their name, id, classes, types, attributes, values of attributes and much more.

All selectors in jQuery start with the dollar sign and parentheses: `$()`.



The element Selector

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

`$("p")`

```
$(document).ready(function()  
{  
    $("button").click(function()  
    {  
        $("p").hide();  
    }  
    );  
})  
);
```



Syntax	Description
<code>\$("*")</code>	Selects all elements
<code>\$(this)</code>	Selects the current HTML element
<code>\$("p.intro")</code>	Selects all <p> elements with class="intro"
<code>\$("p:first")</code>	Selects the first <p> element
<code>\$("ul li:first")</code>	Selects the first element of the first



An event represents the precise moment when something happens.

Examples:

- **moving a mouse over an element**
- **selecting a radio button**
- **clicking on an element**



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



In jQuery, most DOM events have an equivalent jQuery method.

To assign a click event to all paragraphs on a page, you can do this:

`$("p").click();`

```
$("p").click
(
function()
{
    // action goes here!!
}
);
```



click()

The **click()** method attaches an event handler function to an HTML element.

The function is executed when the user clicks on the HTML element.

```
$("p").click(function(){  
    $(this).hide();  
});
```

dblclick()

The **dblclick()** method attaches an event handler function to an HTML element.



mouseenter()

The **mouseenter()** method attaches an event handler function to an HTML element. The function is executed when the mouse pointer enters the HTML element:

mouseleave()

The **mouseleave()** method attaches an event handler function to an HTML element. The function is executed when the mouse pointer leaves the HTML element:

mousedown()

The **mousedown()** method attaches an event handler function to an HTML element.

The function is executed, when the left, middle or right mouse button is pressed down, while the mouse is over the HTML element:



hover()

The **hover()** method takes two functions and is a combination of the **mouseenter()** and **mouseleave()** methods.

The first function is executed when the mouse enters the HTML element, and the second function is executed when the mouse leaves the HTML element:

```
$("#p1").hover(function(){  
    alert("You entered p1!");  
},  
function(){  
    alert("Bye! You now leave p1!");  
});
```



The on() Method

The `on()` method attaches one or more event handlers for the selected elements.

Attach multiple event handlers to a `<p>` element:

```
$("#p").on({  
  mouseenter: function(){  
    $(this).css("background-color", "lightgray");  
  },  
  mouseleave: function(){  
    $(this).css("background-color", "lightblue");  
  },  
  click: function(){  
    $(this).css("background-color", "yellow");  
  }  
});
```



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

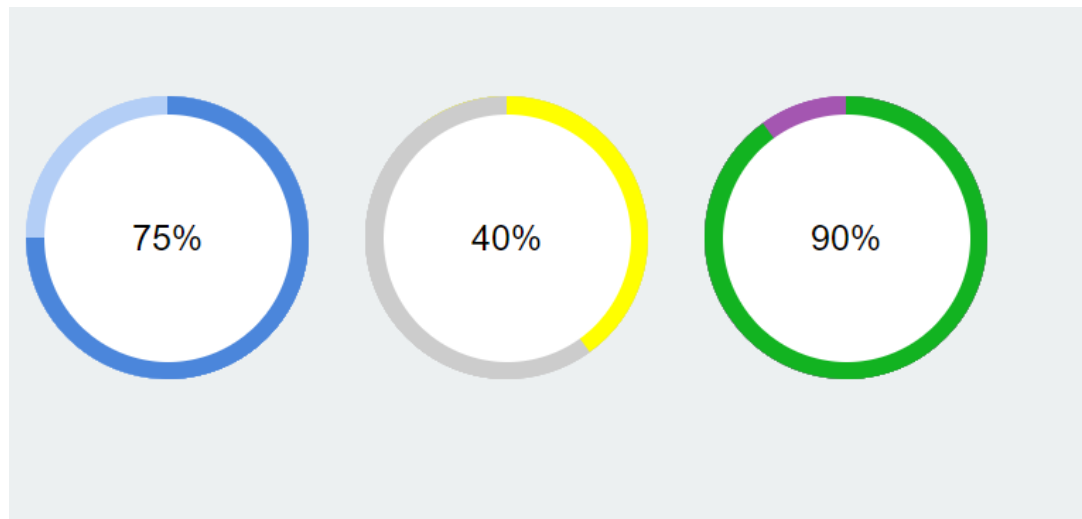
function Validate()
{
    var password = document.getElementById("txtPassword").value;
    var confirmPassword =
document.getElementById("txtConfirmPassword").value;
    if (password != confirmPassword) {
        alert("Passwords do not match.");
        return false;
    }
    return true;
}
</script>
```



```
<script type="text/javascript">
    $(function ()
    {
        $("#btnSubmit").click(function () {
            var password = $("#txtPassword").val();
            var confirmPassword = $("#txtConfirmPassword").val();
            if (password != confirmPassword) {
                alert("Passwords do not match.");
                return false;
            }
            return true;
        });
    });
</script>
```




Query - Progressbar.js






jQuery - Checkout.js




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