

# jQuery Tutorial

---

- Here is the HTML Document
- 1) this is how you inject inside a div or any tag with the id column
- 

```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
    <script src="https://code.jquery.com/jquery-3.1.1.js"></script>
  </head>
  <body>
    <div id="start">

    </div>
    <div id="second">

    </div>
  </body>
  <script>
    $("#start").html("GO");
  </script>

  <script>
    var e1 = document.getElementById("second");
    e1.innerHTML = "This is with the Javascript"

  </script>

</html>
```

- Writing JavaScript in a separated File all the code have to be written in side this jQuery function
- it is a good practice to load the entire HTML document to be fully loaded and then start the jQuery
- The \$ is used to access jQuery

```
$(document).ready(function(){
    //jQuery code goes here
})
```

- But there is a shortcut to do that (this will do the exact same thing as before

```
$(function(){
    //jQuery code goes here
});
```

- this code will change the HTML and override with the jQuery

```
<!-- this is the HTML code -->

<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
    <script src="https://code.jquery.com/jquery-3.1.1.js"></script>
  </head>
  <body>
    <div id="start">Start</div>
  </body>
</html>
```

- and there goes the jQuery code

```
$(function() {
    $("#start").html("Go!");
});
```

- jQuery is used to select the HTML element and perform "actions" on them
- Basic Syntax is \*\* \$("#selector").action() \*\*

```
$("p").hide();
$(".demo").hide()
$("#demo").hide()
```

1) this will hide all the p element

2) this will hide the class named "demo"

3) this will hide the element with id name "demo"

- To select All the Element like dic we dont use any # or . we directly call them

```
$(".div") // selects all the dic class in the document
```

- select the id this code will be use to select

```
$("#test") // select the element with the id="test"
```

- to select any element based on the class

```
$(".menu") //selects all elements with class="menu"
```

- example

```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
    <script src="https://code.jquery.com/jquery-3.1.1.js"></script>
  </head>
  <body>
    <div id="withid">

    </div>

    <div class="withclass">

    </div>
  </body>
</html>

<script>

  $("#withid").html("This is the id based extractor");
  $(".withclass").html("this will be extracted with the class");

</script>
```

- you can select with multiple class and id at the sometime

```
$("#div.menu"); // all <div> elements with class menu

$("#p:first")    // it wills elect the first p element

$("#h1,p") // select all the h1 and the p element

$("#div p") // all <p> elements that are descendants of a <div> element

$("#*") // all elements of the DOM
```

**so suppose you want to select all the links(a element ) inside the paragraph then this code will be used**

```
$("# ")
```

```
$("#p a ");
```

## Example

**if you want to select all the elements that are direct children of div element**

suppose you are tried to select element that are inside the div element

```
$("#div > *")
```

Select the p element and add the data

```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
    <script src="https://code.jquery.com/jquery-3.1.1.js"></script>
  </head>
  <body>
    <p id="test">
      <!-- inject data inside the element -->

    </p>

  </body>
</html>

<script>
```

```

    $(function() {

        $('#test').html("this is selecting the p element");
    });
</script>

</body>

</html>

```

- Select all the **p** element that inside the div "demo"
- this code will hide all the element inside the div element

```

<!DOCTYPE html>
<html>
    <head>
        <title>Page Title</title>
        <script src="https://code.jquery.com/jquery-3.1.1.js"></script>
    </head>
    <body>
        <div class="demo">
            <p>
                this is inside the demo
            </p>
            <p>
                this is another demo
            </p>
        </div>
        <script>
            $(function() {
                $("#demo p").hide();
            });
        </script>
    </body>
</html>

```

## selecting data and then show the alert message

you can choose the attribute and change it or show it

- here is the HTML

```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
    <script src="https://code.jquery.com/jquery-3.1.1.js"></script>
  </head>
  <body>
    <a href="https://www.facebook.com">Click here</a>
  </body>
</html>
```

- here is the jQuery

```
$(function(){

  // take the value of the attribute
  var = $("a").attr("href")
  // now it have the href attribute value
  alert(val);

})
```

**lets change the value so when user clicks the link another link will go we will change the value of the href using the jQuery**

this is the html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
    <script src="https://code.jquery.com/jquery-3.1.1.js"></script>
  </head>
  <body>
    <a href="https://www.sololearn.com/">Click here</a>
  </body>
</html>
```

this is jQuery to set the different value

```
// the rule is
$(function(){
  $("<select_tag>").attr("<attr>","set the value");

})
```

```
$(function(){
    $("a") .attr("href","www.facebook.com")
})
```

## Remove the attribute in the Html document in the hml tag

---

this html document as two tags we remove with the jQuery

so after that this will now show op

this is the HTML we remove the boarder and the class

```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
    <script src="https://code.jquery.com/jquery-3.1.1.js"></script>
  </head>
  <body>
    <table border="5" class="tbl" >
      <tr>
        <td>one</td>
        <td>two</td>
      </tr>
      <tr>
        <td>three</td>
        <td>four</td>
      </tr>
    </table>
  </body>
</html>
```

### this is the jQuery

remove the tags this will remove the boarder of the table and the class

```
$("#table").removeAttr("border");
$("#table").removeAttr("class");
```

## Getting the Content of a tag

---

this is the HTML

```
<p>
  JQuery is <b>fun</b>
</p>
```

this is the jQuery data inside the tag

```
$(function(){
    var val = $("p").html()
    alert(val);
})
```

if you only need the content not the tag then text will be used instead of the html

```
$(function(){
    var val = $("p").text()
    alert(val);
})
```

Setting the content

This is the HTML

```
<div id="test">
    <p>some text</p>
</div>
```

```
$(function(){
    var val = $("#text").text("this is the set text")
    alert(val);
})
```

#3 getting the value of any HTML tag

The HTML

```
<input type="text" id="name" value="Your Name">
```

```
$(function(){
    alert($("#name").val());
})
```

```
append() //inserts content at the end of the selected elements.
prepend() //inserts content at the beginning of the selected elements.
after() //inserts content after the selected elements.
before() //inserts content before the selected elements
```

## append Text

---



```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
    <script src="https://code.jquery.com/jquery-3.1.1.js"></script>
  </head>
  <body>

    <div class="append">
      <!-- code will be append in here-->
    </div>
  </body>
</html>
```

```
$(function() {
  $(".append").append("appended text")
});
```

## adding a new total new element in the HTML

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

```
$(function() {
  var txt = $("<p></p>").text("Hi");
  $("#demo").after(txt);
});
```

## exercise

create a new div element with the text "Hi" and insert it before the element with id="demo".

```
<script>
  // we create a div and inject the hi
  var a = $("<div></div>").text("hi");
  // now inject the new element after the after the element class "demo"
  $("#demo").after(a);

</script>
```

## manipulating the CSS

- you can make a css class and add it to a element using the jQuery
- here we make a css class and add it with the jquery .not directly

```

<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
    <script src="https://code.jquery.com/jquery-3.1.1.js"></script>
  </head>
  <body>
    <style>
      .header {
        color: blue;
        font-size:x-large;
      }
    </style>

    <div>Some text</div>

    <script>

      $("div").addClass("header");

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

```

You can add multiple class with it and then add it with just space

```

$("div").addClass("header second third");

```

This is how you remove the CSS class from the div element

```

$("div").removeClass("red");

```

## Toggle class

---

you can toggle the class . and and change the CSS and from one class to another class

this is the HTML document and we toggle the css of the p class and change its css class

this will also show you how to handle button click event

```

<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
    <script src="https://code.jquery.com/jquery-3.1.1.js"></script>
  </head>
  <body>
    <style>
      .header {
        color: blue;
        font-size:x-large;
      }
    </style>

    <div>Some text</div>

    <script>

      $("div").toggleClass("header");

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

```

```

}

    </style>

    <div>Some text css will be change and toggled with the button press</div>

    <button>
        This is the  button
    </button>

    <script>

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

                $("div").toggleClass("header");
            })
        })
    </script>
</body>
</html>

```

## Just like the html we can also get and set the Css property with JQuery

---

this code will pop up the current background color and then change the background color into blue

```

<!DOCTYPE html>
<html>
    <head>
        <title>Page Title</title>
        <script src="https://code.jquery.com/jquery-3.1.1.js"></script>
    </head>
    <body>
        <style>
            .header {
                background-color:red;
                color: blue;
                font-size:x-large;
            }

        </style>

        <div>Some text css will be change and toggled with the button press</div>

        <button>
            This is the  button
        </button>

        <script>

            $(function(){

```

```

        alert($(".div").css("background-color"));
        $(".div").css("background-color", 'blue');

    });

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

```

## to set the multiple property of css you need to set it as a json and pass it

```

<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
    <script src="https://code.jquery.com/jquery-3.1.1.js"></script>
  </head>
  <body>
    <style>
      .header {
        background-color:red;
        color: blue;
        font-size:x-large;
      }
    </style>

    <div>Some text css will be change and toggled with the button press</div>

    <button>
      This is the  button
    </button>

    <script>

      $(function(){

        $(".div").css({"color": "red", "font-size": "200%"});

      });

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

```

You can add the width and height of a width

```
<script>
    $(function(){
        $("div").css("background-color", "red");
        $("div").width(100);
        $("div").height(100);
    });
</script>
```

## DOM (MOST IMPORTANT PART of jQuery)

---

```
<!DOCTYPE html>
<html>
    <head>
        <title>Page Title</title>
        <script src="https://code.jquery.com/jquery-3.1.1.js"></script>
    </head>
    <body>
        <div> div element
            <p>paragraph</p>
        </div>
    </body>
</html>
```

You can select the parent element and change its attribute and also can change its attribute

```
$(function() {

    // changin the element css
    var b = $("p");
    b.css("background-color", "blue");

    // changing the parent element
    var e = $("p").parent();
    e.css("background-color", "red");
});
```

## you can change all the siblings [ all the element inside the same tag]

---

```
var items = $("div").siblings();
items.hide();

// it will hide all the element inside the all the divs
```

## removing every child element inside a tag

you can remove all the siblings inside a div tag using this code

```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
    <script src="https://code.jquery.com/jquery-3.1.1.js"></script>
  </head>
  <body>
    <style>
      div {
        background-color: aqua;
        width: 300px;
        height: 200px;
      }
    </style>

    <div>
      <p style="color:red">Red</p>
      <p style="color:green">Green</p>
      <p style="color:blue">Blue</p>
    </div>

    <script>
      $("div").empty();
    </script>

  </body>
</html>
```

This remove all the value inside the div

## Event using jQuery

---

```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
    <script src="https://code.jquery.com/jquery-3.1.1.js"></script>
  </head>
  <body>
    <button id="demo">Click Me</button>
    <script>
      $(function(){
        $("#demo").click(function(){
          $("body").html(Date());
        });
      });
    </script>
  </body>
</html>
```

```
        })

    })

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

This will show the date when the button is clicked

## Another click method is "on" method used for event and the form submitting method

---

```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
    <script src="https://code.jquery.com/jquery-3.1.1.js"></script>
  </head>
  <body>
    <button>Click Me</button>

    <script>

      $(function(){

        $("button").on("click",function(){
          alert("Clickeed");
        })
      })

    </script>

  </body>
</html>
```

This will use event to submit the form

```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
    <script src="https://code.jquery.com/jquery-3.1.1.js"></script>
  </head>
  <body>
```

```

    <form action="/action_page.php">

    <label for="fname">First name:</label>
    <input type="text" id="fname" name="fname"><br><br>
    <label for="lname">Last name:</label>
    <input type="text" id="lname" name="lname"><br><br>
    <input type="submit" value="Submit">

    </form>

    <script>

        $(function(){

            $("form").on("submit",function(){

                alert("hello");
            })
        })

    </script>

    </body>
</html>

```

Adding the To do list

This is the HTML

```

<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
    <script src="https://code.jquery.com/jquery-3.1.1.js"></script>
  </head>
  <body>

    <h1>My To-Do List</h1>
    <input type="text" placeholder="New item" />
    <button id="add">Add</button>
    <ol id="mylist"></ol>

  </body>
</html>

```

```

$(function(){
  // make a click event handler
  $("#add").on("click",function(){
    // take the input
    var val = $("input").val();

```



```

        if(val !== ""){
            // make a element with the text
            var element = $("- </li>").text(val);
            // add a button with the element
            $(element).append("<button> Details </button>");
            // now add to the div element
            $("#mylist").append(element);
            // now reset the the input value
            $("input").val("");
        }
    })

})

```

we can animate the button to Increase the button size

this is the html code

```

<!DOCTYPE html>
<html>
    <head>
        <title>Page Title</title>
        <script src="https://code.jquery.com/jquery-3.1.1.js"></script>
    </head>
    <body>
        <div>Click me</div>
    </body>
</html>

```

```

$(function() {
    $("div").click(function() {
        $("div").animate({
            width: '+=250px',
            height: '+=250px'
        }, 1000);
    });
});

```

## making the dropdown Menu

```

<!DOCTYPE html>
<html>
    <head>
        <title>Page Title</title>
        <script src="https://code.jquery.com/jquery-3.1.1.js"></script>
    </head>

```

```
<body>
<div class="menu">
  <div id="item">Dropdown</div>
  <div id="submenu">
    <a href="#">Link 1</a>
    <a href="#">Link 2</a>
    <a href="#">Link 3</a>
  </div>
</div>
</body>
</html>
```

When the Dropdown menu is clicked this submenu will be shown

```
$(function(){
  $("#item").click(function(){
    $("#submenu").slideToggle(500);

  });
});
```