

JQuery

We Need a Hero get these guys inline



Easier to Write in JQuery

```
let divs = document.getElementsByTagName("div");
for(let i=0;i<divs.length; i++){
    divs[i].style.display = "none";
}
```

Easier to Write in JQuery

```
let divs = document.getElementsByTagName("div");
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    divs[i].style.display = "none";
}
```

\$(“div”).hide() // in JQuery

Philosophy

1. Find Some HTML
2. Do Something With It

`$(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"`.

How to Add JQuery

```
<head>  
<script src="jquery-3.6.4.min.js"></script>  
</head>
```

Or Add CDN

```
<head>  
<script src="https://ajax.googleapis.com/ajax/libs  
/jquery/3.6.4/jquery.min.js"></script>  
</head>
```

The Document Ready Event

```
$(document).ready(function(){  
    // jQuery methods go here...  
});
```

Or

```
$(function(){  
    // jQuery methods go here...  
});
```

Example

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


Slide Down Example

```
<script  
src="https://ajax.googleapis.com/ajax/libs/jquery/3.7.  
1/jquery.min.js">
```

```
<script>
```

```
$(document).ready(function(){  
    $("#flip").click(function(){  
        $("#panel").slideDown("slow");  
    });  
});
```

```
});
```

```
</script>
```

```
<div id="flip">Click to slide down panel</div>
```

```
<div id="panel">Hello world!</div>
```

```
<script>
```

```
$(document).ready(function(){  
    $("#flip").click(function(){  
        $("#panel").slideDown("slow");  
    });  
});
```

```
</script>
```



Method Chaining

```
$("#p1").css("color", "red").slideUp(2000).slideDown(2000);
```

Each Effect returns the same object

Animations

```
$("#button").click(function(){  
    var div = $("#div");  
    div.animate({height: '300px', opacity: '0.4'}, "slow");  
    div.animate({width: '300px', opacity: '0.8'}, "slow");  
    div.animate({height: '100px', opacity: '0.4'}, "slow");  
    div.animate({width: '100px', opacity: '0.8'}, "slow");  
})
```

Selectors

`$("*")`

- Selects all elements

`$(this)`

- Selects the current HTML element

`$("p.intro")`

- Selects all `<p>` elements with `class="intro"`

`$("p:first")`

- Selects the first `<p>` element

`$("ul li:first")`

- Selects the first `` element of the first ``

`$("ul li:first-child")`

- Selects the first `` element of every ``

Selectors

`$("[href]")`

- Selects all elements with an href attribute

`$("a[target='_blank']")`

- Selects all <a> elements with a target attribute value equal to "_blank"

`$("a[target!='_blank']")`

- Selects all <a> elements with a target attribute value NOT equal to "_blank"

`$(":button")`

- Selects all <button> elements and <input> elements of type="button"

`$("tr:even")`

- Selects all even <tr> elements

`$("tr:odd")`

- Selects all odd <tr> elements

DOM Manipulation

```
$("#test").text() //getter
```

```
$("#test").html() //getter
```

```
$("#test2").html("<b>Hello world!</b>");//setter
```

```
$("#test1").text("Hello world!"); //setter
```

```
$("#test3").val("Dolly Duck"); //value of  
input element
```

Play with CSS Classes

`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

Events

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

Event Binding

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

```
$("#p1").mouseenter(function(){  
    alert("You entered p1!");  
});
```

The on Method

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

Or

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

Event Propagation

```
<html>
<body>
<div id="container">
  <ul id="list">
    <li><a href="http://domain1.com">Item #1</a></li>
    <li><a href="/local/path/1">Item #2</a></li>
  </ul>
</div>
</body>
</html>
```

```
$( "#list a" ).on( "click", function( event ) {
  event.preventDefault();
  console.log( $( this ).text() );
});
```

Consider what happens when we add a new anchor after having already bound the above listener:

A Click on hyper link will trigger the clicks of all ancestors (Bubbling)

<a>

<ul #list>

<div #container>

<body>

<html>

document root

Event Delegation

```
// Attach a delegated event handler
$( "#list" ).on( "click", "a", function( event ) {
    event.preventDefault();
    console.log( $( this ).text() );
});
```

AJAX JQUERY Auto Complete

```
<div class="autocomplete-container">  
  <input type="text" id="country" placeholder="Type to search...">  
  <div class="loader"></div>  
  <div id="autocomplete-list" class="autocomplete-list"></div>  
</div>
```



unit

- United Arab Emirates
- United Kingdom
- United States

<p>Notice an empty div with #autocomplete-list</p>

Countries Autocomplete API end point

<https://usmanlive.com/wp-json/api/countries?q=ak>

A Special URL which returns JSON (Java Script Object Notation) e.g. ["Kazakhstan","Pakistan"]

Query String: A query string is a set of key-value pairs appended to a URL after a ?, used to pass data to web servers.

JS Code

Find Complete Code at

<https://usmanlive.com/countries-auto-complete-example/>

Binding Inside \$()

```
$(document).ready(function () {  
  // all event bindings  
})
```

On Input change

```
$("#country").on("input", function () {  
    let query = $(this).val().trim();  
    if (query.length === 0) {  
        $("#autocomplete-list").hide();  
        return;  
    }  
  
    $(".loader").show(); // Show loader when API call starts  
});
```

Ajax Call

```
$.ajax({  
  url: "https://example.com/api/data",  
  success: function(response) {  
    console.log(response);  
  },  
  error: function(xhr, status, error) {  
    console.error(error);  
  }  
});
```

Delegated Event Binding

```
$(document).on("click", ".autocomplete-item", function ()  
{  
    $("#country").val($(this).text());  
    $("#autocomplete-list").hide();  
});
```