

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";
}
```

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```
let divs = document.getElementsByTagName("div");
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```

`$(“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>  


Click to slide down panel

  


Hello world!


```

```
<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>
<li>
<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>
```

<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();  
});
```