

JQuery

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Why jQuery?

There are lots of other JavaScript frameworks out there, but jQuery seems to be the most popular, and also the most extendable.

Many of the biggest companies on the Web use jQuery, such as:

- Google
- Microsoft
- IBM
- Netflix

jQuery is a lightweight, "write less, do more", JavaScript library. The jQuery library is a single JavaScript file, and you reference it with the HTML `<script>` tag

(notice that the `<script>` tag should be inside the `<head>` section):

```
<head>
<script src="
https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js></script>
</head>
-----
<head>
<script src="jquery-3.3.1.min.js"></script>
</head>
```

PS : jQuery will run exactly the same in all major browsers.

The Document Ready Event

This is to prevent any jQuery code from running before the document is finished loading (is ready).

```
$(document).ready(function(){

    // jQuery methods go here...

});
```

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

jQuery Selectors

https://www.w3schools.com/jquery/jquery_selectors.asp

jQuery Event

- click()
- dblclick()
- mouseenter()
- mouseleave()
- mousedown()
- mouseup()
- hover()
- focus()
- blur()
 - https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_focus_blur
- on()
 - The on() method attaches one or more event handlers for the selected elements.
 - https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_on_multiple

jQuery Effects

- **Fade**
 - jQuery has the following fade methods:
 - fadeIn()
 - fadeOut()
 - fadeToggle()
 - fadeTo()
 - The jQuery fadeTo() method allows fading to a given opacity (value between 0 and 1).
 - `$(selector).fadeTo(speed,opacity,callback);`
 - https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_fadeto
 - https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_fadetoggle
- **Show/Hide**
 - `$(selector).hide(speed,callback);`
 - `$(selector).show(speed,callback);`
 - `$(selector).toggle(speed,callback);`
 - https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_hide_explanations
- **Animate**
 - **media query(?)**
 - `$(selector).animate({params},speed,callback);`
 - https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_animation1_multicss
- **Stop()**
 - The jQuery stop() method is used to stop animations or effects before it is finished.
 - `$(selector).stop(stopAll,goToEnd);`
 - https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_stop_params
- **Callback**
 - A callback function is executed after the current effect is 100% finished.

- WITH CALLBACK https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_hide_callback
- WITHOUT CALLBACK https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_hide_no_callback

```
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script>
$(document).ready(function(){
    $("button").click(function(){
        $("p").hide(1000);
        alert("The paragraph is now hidden");
    });
});
</script>
</head>
<body>

<button>Hide</button>

<p>This is a paragraph with little content.</p>

</body>
```

• Chaining

- Tip: This way, browsers do not have to find the same element(s) more than once.
- With jQuery, you can chain together actions/methods.
- Chaining allows us to run multiple jQuery methods (on the same element) within a single statement.
- https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_chaining2

• Slide

- jQuery slideDown()
 - Demonstrates the jQuery slideDown() method
- jQuery slideUp()
 - Demonstrates the jQuery slideUp() method.
- jQuery slideToggle()
 - Demonstrates the jQuery slideToggle() method.
- https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_slide_toggle

jQuery HTML

jQuery - Get Content and Attributes

Three simple, but useful, jQuery methods for DOM manipulation are:

- text() - Sets or returns the text content of selected elements
- html() - Sets or returns the content of selected elements (including HTML markup)
- val() - Sets or returns the value of form fields

https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_dom_html_set

jQuery - Set Content and Attributes

https://www.w3schools.com/jquery/jquery_dom_set.asp

Add Several New Elements With `append()` and `prepend()`

We will look at four jQuery methods that are used to add new content:

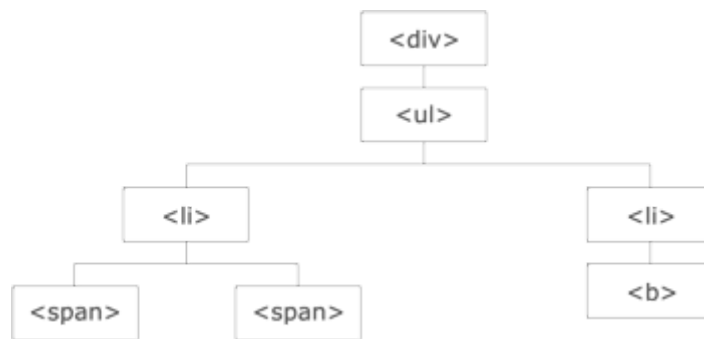
- `append()` - Inserts content at the end of the selected elements
- `prepend()` - Inserts content at the beginning of the selected elements
- `after()` - Inserts content after the selected elements
- `before()` - Inserts content before the selected elements
- https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_html_append2
- This example removes all `<p>` elements with `class="test"` or `class="demo"`
- https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_dom_remove3
- https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_dom_toggleclass

Set a CSS Property

- With jQuery, it is easy to manipulate the CSS of elements.
- To set a specified CSS property, use the following syntax:
- `css({"propertyname":"value","propertyname":"value",...});`
- https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_css_set_multiple

jQuery Traversing

What is Traversing?



• Ancestors

- An ancestor is a parent, grandparent, great-grandparent, and so on.
- Three useful jQuery methods for traversing up the DOM tree are:
 - `parent()`
 - `parents()`
 - `parentsUntil()`
 - https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_parentsuntil

• Descendants

- Two useful jQuery methods for traversing down the DOM tree are:
 - `children()`
 - `find()`
 - https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_find

• Siblings

- There are many useful jQuery methods for traversing sideways in the DOM tree:
 - `siblings()`
 - https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_siblings2
 - `next()`
 - `nextAll()`
 - `nextUntil()`
 - https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_nextuntil
 - `prev()`
 - `prevAll()`
 - `prevUntil()`

• Filtering

- The most basic filtering methods are `first()`, `last()` and `eq()`, which allow you to select a specific element based on its position in a group of elements.
- `first()`
- `last()`
- `eq()`
 - https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eq
- `filter()`
 - https://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_filter
- `not()`

jQuery Misc

jQuery and Other JavaScript Frameworks

- As you already know; jQuery uses the `$` sign as a shortcut for jQuery.
- There are many other popular JavaScript frameworks like: Angular, Backbone, Ember, Knockout, and more.

```
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script>
$.noConflict();
jQuery(document).ready(function(){
    jQuery("button").click(function(){
        jQuery("p").text("jQuery is still working!");
    });
});
</script>
</head>
<body>

<p>This is a paragraph.</p>
<button>Test jQuery</button>

</body>
```

- Declare yourself

```
<script>
var jq = $.noConflict();
jq(document).ready(function(){
    jq("button").click(function(){
        jq("p").text("jQuery is still working!");
    });
});
</script>
```