



# DOM manipulation jQuery vs plain Javascript

Web Development Boot Camp  
Lesson 5.2





**Remember:**

**jQuery is written in Javascript.**

# jQuery is a Javascript library

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It was developed to make DOM manipulation easier



Old Javascript had no way to query the DOM



Javascript only had `document.getElementById()`



A lot of tools for DOM manipulation (e.g., `attr`, `css`, `animate`)



Affect multiple elements without a `for` loop (e.g., `$("myclass").on("click"...)` )



Code is more expressive, declarative



Has been extended by the community (search for jQuery plugins)

# Drawbacks of jQuery

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There is no free lunch



It is feature rich, which means a lot of code to download (bad for slow internet on mobile)



jQuery's simple syntax is built on a lot of Javascript (less efficient in some cases)



Plain Javascript now has `querySelector` and `querySelectorAll`



Has been overtaken by newer front end technologies (React, Angular, Vue)



Doesn't work on the server-side (i.e., node)

# jQuery in a Nutshell

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We use the jQuery `$( )` identifier to capture HTML elements:

<code>\$(".classname")</code>	<code>\$("div")</code>
<code>\$("#idname")</code>	<code> \$("p")</code>

Then, we tie the element to a jQuery method of our choice to capture events:

<code>.on("click")</code>	<code>.ready()</code>
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Finally, we modify the selected element or add or remove elements from the DOM:

<code>.animate()</code>	<code>.append()</code>	<code>.remove()</code>
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# Compare jQuery to plain Javascript

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jQuery code is more expressive

	Plain Javascript	jQuery
Get by id	<pre>document.getElementById("myId") document.querySelector("#myId")</pre>	<pre>\$("#myId")</pre>
Get element by CSS Selector	<pre>document.querySelector(".myClass")</pre> <p>Gets the first element that matches the selector</p>	<pre>\$(".myClass")</pre>
Get elements by CSS selector	<pre>document.querySelectorAll(".myClass")</pre>	<pre>\$(".myClass")</pre>

# Compare jQuery to plain Javascript

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jQuery code is more expressive

	Plain Javascript	jQuery
Change elements	<pre>var items = document.querySelectorAll("li.myClass");  for(var i = 0; i &lt; items.length; i++) {     items[i].style.color = "#0000FF"; }  Or  items.forEach(function(el){     el.style.color = "#0000FF" })</pre>	<pre>\$("li.myClass").css("color", "#0000FF");</pre>

# Compare jQuery to plain Javascript

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jQuery code is more expressive

	Plain Javascript	jQuery
Add event handlers	<pre>// console.log a button's data attribute var buttons = document.querySelectorAll("buttons");  for(var i = 0; i &lt; buttons.length; i++) {   buttons[i].addEventListener("click",     function(event) {       console.log(         event.target.getAttribute("data-command"));     }); }</pre>	<pre>\$("button").on("click", function(){   // this refers to event.target   // but it is not a jQuery object   console.log(\$(this).data("command")); })</pre>



# Compare jQuery to plain Javascript

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jQuery code is more expressive

	Plain Javascript	jQuery
Add Element to DOM	<pre>var newEl = document.createElement("div"); newEl.textContent = "Here is a new Element"; document.body.appendChild(newEl);</pre>	<pre>var newEl = \$("&lt;div&gt;"); newEl.text("Here is a new Element"); \$("body").append(newEl);  <b>OR</b> \$("body").append(\$("&lt;div&gt;").text("Hello"));</pre>



Questions?