

8.5 jQuery Get and Set



flower girls by normal rockwell - answered by Dante Magbuhos Jr.

- One very important part of jQuery is the possibility to manipulate the DOM.
- jQuery comes with a bunch of DOM related methods that make it easy to access and manipulate elements and attributes.

Getting element text and values

- Three simple, but useful, jQuery methods for DOM manipulation are `text()`, `html()`, and `val()`.

Method	Description	Sample code	Code explanation
<code>.text()</code>	<ul style="list-style-type: none">• Gets the text content of selected elements	<pre><div id="my_div">This is some text inside a div element.</div> <p id="my_para">This is a paragraph with some text.</p> <button id="get_text">Get Text</button> \$(document).ready(function () { \$("#get_text").click(function () { let text = \$("#my_div").text(); let para_text = \$("#my_para").text(); alert("Text from #my_div: " + text + "\nText from #para_text"); }); });</pre>	<ul style="list-style-type: none">• When the "Get Text" button is clicked, it retrieves the text content of the element with <code>id="my_div"</code> and stores it in the <code>text</code> variable.• It also retrieves the text content of the element with the <code>id="my_para"</code> and stores it in the

		<pre> let input_value = \$("#my_input").val(); alert("Value from #my_input: " + input_value); }); }); </pre>	<ul style="list-style-type: none"> When the "Set Value" button is clicked, it changes the value of the input field and updates the <code>id="output"</code> to indicate that the value has been set to a specific text.
--	--	--	--

Getting element properties

- The `prop()` method returns properties and values of the selected elements.

Method	Description	Sample code	Code explanation
<code>.prop()</code>	<ul style="list-style-type: none"> Used to get properties of HTML elements. 	<pre> <input type="checkbox" id="my_checkbox" checked> <button id="get_checkbox">Get Checkbox Value</button> <p id="output">Checkbox value will be displayed here.</p> \$(document).ready(function() { \$("#get_checkbox").click(function() { let is_checked = \$("#my_checkbox").prop("checked"); \$("#output").text("Checkbox value from #my_checkbox: " + is_checked); }); }); </pre>	<ul style="list-style-type: none"> When the "Get Checkbox Value" button is clicked, it uses the <code>.prop()</code> function to get the <code>checked</code> property of the checkbox with <code>id="my_checkbox"</code>. It then displays a message in the output paragraph indicating whether the checkbox is checked or not, based on the value of the <code>checked</code> property.

Setting element text and values

Method	Description	Sample code	Code explanation
<code>.text()</code>	<ul style="list-style-type: none"> Sets the text content of 	<pre> <button id="change_text">Change Text</button> </pre>	<ul style="list-style-type: none"> When the button is clicked, it changes the text content of

		<pre> var inputValue = \$("#text_input").val(); \$("#output").text("Current value: " + inputValue); }); \$("#set_value").click(function() { \$("#text_input").val("New Value Set"); \$("#output").text("Value set to 'New Value Set'"); }); }); </script> </pre>	<p>the value of the input field and updates the <code>id="output"</code> to indicate that the value has been set to a specific text.</p>
--	--	--	--

Setting element properties

- The jQuery `prop()` method sets properties and values of the selected elements.

Method	Description	Sample code	Code explanation
<code>.prop()</code>	<ul style="list-style-type: none"> Used to get or set properties of HTML elements. 	<pre> <label for="checkbox">Check this box: </label> <input type="checkbox" id="checkbox"> <div id="output">Checkbox is unchecked. </div> <button id="toggle_checkbox">Toggle Checkbox</button> <script> \$(document).ready(function() { \$("#toggle_checkbox").click(function() { let checkbox = \$("#checkbox"); let is_checked = checkbox.prop("checked"); if (is_checked) { checkbox.prop("checked", false); </pre>	<ul style="list-style-type: none"> When the button is clicked, it checks the current state of the checkbox using <code>.prop()</code>, toggles it, and updates the text in the "output" <code><div></code> to indicate whether the checkbox is checked or unchecked.

		<pre> \$("#output").text("Checkbox is unchecked."); } else { checkbox.prop("checked", true); \$("#output").text("Checkbox is checked."); } }); }); </script> </pre>	
--	--	---	--

Accessing the event trigger element

- In the case that you want to access the triggering element, you can use the `this` keyword.
- This is useful for when you have multiple elements with a similar selector.

Method	Description	Sample code	Code explanation
<code>this</code>	<ul style="list-style-type: none"> • Refers to the current DOM element that is the target of a jQuery method or event 	<pre> <button class="clickable_button">Click Me 1</button> <button class="clickable_button">Click Me 2</button> <button class="clickable_button">Click Me 3</button> <div id="output">Button clicked: None</div> \$(document).ready(function () { \$(".clickable_button").click(function () { let button_text = \$(this).text(); \$("#output").text("Button clicked: " + button_text); }); }); </pre>	<ul style="list-style-type: none"> • When any of the "Click Me" buttons is clicked, the code uses the <code>this</code> keyword to identify the specific button that was clicked, retrieves its text content, and updates the text of the <code><div></code> with <code>id="output"</code> to indicate which button was clicked. • When you click a button, the text inside the <code><div></code> with <code>id="output"</code> is updated to display the text of

the button that was clicked.

Manipulating Element Classes

- jQuery has methods that enable dynamic manipulation and querying of CSS classes on HTML elements.

Method	Description	Sample code	Code explanation
<code>.hasClass()</code>	<ul style="list-style-type: none">Checks if the selected element has a specific CSS class	<pre><div id="my_div" class="initial-class">This is a div element.</div> <button id="check_class">Check Class</button> <button id="add_class">Add Class</button> <button id="rem_class">Remove Class</button></pre>	<ul style="list-style-type: none">When you click the "Check Class" button, it uses <code>.hasClass()</code> to check if the <code><div></code> with <code>id="my_div"</code> has <code>class="initial-class"</code> and displays an alert message accordingly.
<code>.addClass()</code>	<ul style="list-style-type: none">Adds one or more CSS classes to the selected elements	<pre>\$(document).ready(function () { \$("#check_class").click(function () { if (\$("#my_div").hasClass("initial-class")) { alert("#my_div has the 'initial-class' class."); } else { alert("#my_div doesn't have the 'initial-class' class."); } }); });</pre>	<ul style="list-style-type: none">Clicking the "Add Class" button adds the class <code>new-class</code> to the <code><div></code> element, and clicking the "Remove Class" button removes the <code>initial-class</code> from the <code><div></code>.
<code>.removeClass()</code>	<ul style="list-style-type: none">Removes one or more CSS classes from the selected elements	<pre>\$("#add_class").click(function () { \$("#my_div").addClass("new-class"); }); \$("#rem_class").click(function () { \$("#my_div").removeClass("initial-class"); }); });</pre>	

<div>.toggleClass()</div>	<ul style="list-style-type: none"> Toggles the presence of one or more CSS classes on the selected elements, adding the class if it's absent or removing it if it's present 	<pre> <style> .initial_class { color: #333; background-color: #f0f0f0; padding: 10px; } .active_class { color: #fff; background-color: #007bff; } </style> <div id="my_div" class="initial_class">This is a div element.</div> <button id="toggle_class">Toggle Class</button> \$(document).ready(function () { \$("#toggle_class").click(function () { \$("#my_div").toggleClass("active_class"); }); }); </pre>	<ul style="list-style-type: none"> When the "Toggle Class" button is clicked, uses jQuery's <div>.toggleClass()</div> method to toggle the class of the <div><div></div>. When the class is toggled, it changes the text and background colors of the <div><div></div> to give it a different appearance.
---------------------------	--	--	---

Additional Material

- **Learn more**
 - [W3Schools](#)