

8.4 jQuery Event Methods



- All the different visitors' actions that a web page can respond to are called **events**.
- An event represents the precise moment when something happens.
 1. Moving a mouse over an element
 2. Selecting a radio button
 3. Clicking on an element
- The term "fires/fired" is often used with events. Example: "The keypress event is fired, the moment you press a key".
- In jQuery, most DOM events have an equivalent jQuery method.
- To assign a click event to all paragraphs on a page, you can do this:

```
$("#p").click();
```

- The next step is to define what should happen when the event fires. You must pass a function to the event:

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

Events	Keyboard events	Triggered by	Sample code	Code explanation
<code>click</code>	The function is executed	Mouse	<pre><code>\$("#p").click(function(){ \$(this).hide(); });</code></pre>	<ul style="list-style-type: none">• When a <code><p></code> element is clicked, it hides (removes) that specific <code><p></code>

	when the user clicks on the HTML element.		element from the page.
dblclick	The function is executed when the user double-clicks on the HTML element.	<pre> \$("p").dblclick(function(){ \$(this).hide(); }); </pre>	<ul style="list-style-type: none"> When a <code><p></code> element is double-clicked, it hides (removes) that specific <code><p></code> element from the page.
mouseenter	The function is executed when the mouse pointer enters the HTML element.	<pre> \$("#p1").mouseenter(function(){ alert("You entered p1!"); }); </pre>	<ul style="list-style-type: none"> When the mouse cursor enters the <code>id="p1"</code> element, it displays an alert with the message "You entered p1!"
mouseleave	The function is executed when the mouse pointer leaves the HTML element.	<pre> \$("#p1").mouseleave(function(){ alert("Bye! You now leave p1!"); }); </pre>	<ul style="list-style-type: none"> When the mouse cursor leaves the <code>id="p1"</code> element, it displays an alert with the message "Bye! You now leave p1!"
mouseup	The function is executed, when the	<pre> \$("#p1").mousedown(function(){ alert("Mouse down over p1!"); }); </pre>	<ul style="list-style-type: none"> When the mouse button is pressed down over <code>id="p1"</code>, it

	left, middle or right mouse button is released, while the mouse is over the HTML element.		triggers an alert with the message "Mouse down over p1!"
mousedown	The function is executed, when the left, middle or right mouse button is pressed down, while the mouse is over the HTML element.	<pre> \$("#p1").mouseup(function(){ alert("Mouse up over p1!"); }); </pre>	<ul style="list-style-type: none"> When the mouse button is released over id="p1", it triggers an alert with the message "Mouse up over p1!"
hover	The first function is executed when the mouse enters the HTML element, and the second function is	<pre> \$("#p1").hover(function(){ alert("You entered p1!"); }, function(){ alert("Bye! You now leave p1!"); }); </pre>	<ul style="list-style-type: none"> When the mouse button is released over id="p1", it triggers an alert with the message "Mouse up over p1!"

		<pre> <script> \$(document).ready(function() { \$("#register").submit(function(event) { event.preventDefault(); let name = \$("#name").val(); let email = \$("##email").val(); \$("#output").text("Name: " + name + "\nEmail: " + email); }); }); </script> </pre>	
change	This function is executed when an element's value changes.	<pre> <label for="color_select">Select a color:</label> <select id="color_select"> <option value="red">Red</option> <option value="blue">Blue</option> <option value="green">Green</option> <option value="yellow">Yellow</option> </select> <script> \$(document).ready(function() { \$("#color_select").change(function() { var selected_color = \$(this).val(); \$("#output").text("Selected color: " + selected_color); }); }); </pre>	<ul style="list-style-type: none"> When a different color is selected from the dropdown, it captures the selected color's value and displays it in an element with <code>id="output"</code> as "Selected color: <code>[selected_color]</code>."

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