|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **event** | **driven** | **DOM** | **manipulation** |  |  |
| **alter** | **the HTML** | **displayed t** | **to end users** |  |  |
| Web page is a document. | **The DOM represents the document as nodes and objects.** |  | HTML elements can be added and removed, regardless of whether or not they appeared in the HTML file. That way, programming languages can connect to the page. | Every element in a document   can all be accessed and manipulated using the DOM and a scripting language like JavaScript | jQuery's API  DOM traversal and manipulation can be done using plain JavaScript, but because of cross-browser compatibility issues, many developers prefer to use jQuery's API for DOM traversal and manipulation.  The**$**in that snippet is the jQuery object, which has methods for DOM manipulation and traversal, as well as AJAX requests (which we'll cover in depth later in this unit), and JavaScript animations |
|  | **$(init)** |  | the object you get back is a jQuery object, |  | $(callBackFunction)  /\*--document ready is deprecated --- Refactor the 'document.ready' event listener into `$(init)` function` |
|  | **$(this)** |  |  |  |  |
| **Selector** | **Method** | **Event Handling** | **Event Listener** |  | callback functions in response to events like |
| Targets elements  traversing and update them  'js-target' | run these methods once elements targeted | *anything the user does* | 1) specify which event to listen for.  2) provide a callback function that runs whenever the event occurs. |  |  |
|  |  | page load |  |  |  |
|  | **object.method();**  **$("this").** | clicks |  |  |  |
|  | **on ( )** | **form submissions** | **responds to any event on the selected elements** |  | **$( "p" ).on( "click", function() {**  **console.log( "<p> clicked" );**  **});** |
|  | **attr ( )** |  |  |  |  |
|  | **html ( )** |  |  |  |  |
|  | **val ( )** |  |  |  |  |
|  | **prop ( )** |  |  |  | **.prop( "checked", true ); .prop ( "checked", false );** |
|  | **addClass ( )** |  | **what does set of matched elements mean?** |  | **addClass( "selected highlight" )** |
|  | **appendChild ( )** |  |  |  |  |
|  | **text ( )** |  | ***Get the combined text contents of each element in the set of matched elements, including their descendants.***  **The result of the .text() method is a string containing the combined text of all matched elements** |  | **get the text value of the selected element**  **$('.js-click-counter').text(clickCount);** |
|  |  |  |  |  | **to replace the text, you must get the value before you set it** |
|  | **Traversal** |  |  |  | **https://api.jquery.com/category/traversing/** |
|  | [**.map()**](https://api.jquery.com/map/) |  |  |  |  |
|  | [**.add()**](https://api.jquery.com/add/) |  |  |  |  |
|  | [**.slice()**](https://api.jquery.com/slice/) |  |  |  |  |
|  | [.find()](https://api.jquery.com/find/" \t "_blank) |  |  |  |  |
|  | [.parent()](https://api.jquery.com/parent/) |  |  |  |  |
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**Basic traversing and manipulation**

function doHelloWorld() {

traversing manipulating

$('.js-hide-it').addClass('hidden');

$('.js-hello-world').text('hello world from JS');

}

**Basic event handling function**https://courses.thinkful.com/fewd-001v6/assignment/3.1.2

function handleClicks() {

var clickCount = 0;

$(' js-click-count ').text(clickCount);

**}**