

Week 10 Research Assignment

List and explain the JavaScript methods that enable us to select elements from the DOM.

The JavaScript methods that enable us to select elements from the DOM are `getElementsByTagName()`, `getElementsByClassName()`, `getElementById()`, `querySelector()`, and `querySelectorAll()`. The `getElementsByTagName()` method will select and return all elements with the same tag, for example all table list items with the tag ``. The `getElementsByClassName()` method will select all the elements within a specific class, for example `<body class="container">`, here, the class would be `container`. The `getElementById()` method will select elements with a specific id. This is more commonly used for items that are not needed to be selected in a group. The `querySelectorAll()` and `querySelector()` both return CSS matches. The `querySelector()` method will return the first element matched, whereas the `querySelectorAll()` method will return all matching elements.

Sources:

<https://www.tutorialrepublic.com/javascript-tutorial/javascript-dom-selectors.php>

https://www.w3schools.com/jsref/met_document_queryselector.asp

What is the document object? What are some other methods available on the document object that don't select elements from the DOM?

The Document Object is the object that is at the top of the DOM. The Document Object contains properties and methods that can be used to get information. One additional method available is the `createElement()` method. This allows a user to create a new element. The `appendChild()` method is used to add an element as the last child. The `innerHTML()` method is used to dictate text on an element. The `addEventListener()` method is used to trigger an action, such as clicking a button. The `replaceChild()` is similar to the `appendChild()`, rather this one replaces a child versus adding one.

Sources:

<https://www.freecodecamp.org/news/dom-explained-everything-you-need-to-know-about-the-document-object-model/>

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