

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

`getElementsByTagName()` – this method returns all of the elements that match the specified tag name. (Ex: `getElementsByTagName('h1')` would return all items matching the tag name `h1`)

`getElementsByClassName()` - returns all the elements that match the specified class name. The difference between this and `getElementsByTagName` is that the selection is based on class name rather than tag name.

`getElementById()` - this is similar to the above two, but instead of returning all matching elements, this method only returns the first matched element and ignores the rest.

`querySelector()` - returns the first element that matches the specified CSS selector (Ex: `querySelector('.heading')` will return the first element that matches the `.heading` CSS selector)

`querySelectorAll()` - similar to the above `querySelector()`, this one differs because it returns all the elements that match the specified CSS selector, rather than only the first element that matches.

<https://blog.bitsrc.io/dom-selectors-explained-70260049aaf0>

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

The DOM is a programming interface that defines the logical structure of documents. It is a way to represent a webpage in a structured hierarchical format so that it is easier for developers and users to use and manipulate.

`setAttribute()` - this method is used to set or change the value of an element's attribute.

`createElement()` - this is used to create an element and place it anywhere in the DOM structure

Node method - each element in an HTML page is a node. The following properties can be used with the node object to access any element:

`node.childNodes` - accesses the child nodes of a selected parent

node.firstChild - accesses the first child of a selected parent

node.lastChild - accesses the last child of a selected parent

node.parentNode - accesses the next consecutive element of a selected element

node.nextSibling - accesses the previous element of a selected element

https://developer.mozilla.org/en-US/docs/Web/API/Document_Object_Model/Introduction

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