

## Prompts

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

- `getElementById`: allows us to search for an element using its id to find it. It will only return a single element because each element id should be unique.
- `getElementsByTagName`: allows us to search for an element using the tag name of the element such as `<p>`, `<div>` or `<span>`. This can be used on all elements by only the children of the element will be returned. It returns a live `NodeList` that will automatically update with node additions or removals.
- `getElementsByClassName`: allows us to search for an element based on its class attribute(s). It can be used to call on multiple elements by passing the class names and separate them with a whitespace. This also returns a live `NodeList` that will automatically update with node additions or removals.
- `getElementsByName`: allows us to search for an element based on its name attribute. This is similar to `getElementsByClassName`, however, it can only be used on an element that matches exactly the passed string. It is also not recommended to use this method. This does return a live `NodeList`.
- `querySelector`: for a specified selector it will return the first element that matches the selector. It can be used to call multiple selectors by separating them with a comma. It can also be called on both document and element. An example would be searching for parent class or span. In multiples you might select something like span and div or span and paragraph.
- `querySelectorAll`: for a specified selector it will return one or more elements that match the selector. It can be used to call on multiple selectors using a comma between them. It can also be used to call on both document and element. This method returns a non-live `NodeList` and does not update automatically. Examples of this would be searching for span and paragraph.

<https://www.educative.io/answers/what-are-the-different-ways-to-select-dom-elements-in-javascript>

2. 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 data representing the structure and content of a given webpage (aka document). It is comprised of nodes and objects which can be manipulated using JavaScript code. Each individual piece or element on the page is an object on its own and can be modified separately. Such an example would be cards or tables.

- The two methods that can select the document itself rather than just the elements of the DOM are `querySelector` and `querySelectorAll`. Each of these allows for searching of the entire document not just the elements within.

[https://developer.mozilla.org/en-US/docs/Web/API/Document\\_Object\\_Model/Introduction](https://developer.mozilla.org/en-US/docs/Web/API/Document_Object_Model/Introduction)

3. What is your favorite thing you learned this week?