

## Week 10 research

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### Prompts

1. List and explain the JavaScript methods that enable us to select elements from the DOM.
2. What is the document object? What are some other methods available on the document object that don't select elements from the DOM?
3. What is a highlight of what you have learned this week?

### Answers

1. There are six methods you can use to select elements from the DOM: getElementById, getElementsByTagName, getElementsByClassName, getElementByName, querySelector, querySelectorAll.

- getElementById searches the DOM for an element that matches the id included in the parentheses after the method.
- getElementsByTagName searches the DOM for elements that have the tag name you put in the parentheses after the method.
- getElementsByClassName searches the DOM for elements with the class name you specify.
- getElementByName searches the DOM for elements that match the name attribute you specify.
- querySelector finds the first element in the DOM that matches the specified selector. You have to make sure to use the correct prefix for the element, so if it is an id, you have to use #, if it is a tag, you would use a . before the element tag.
- querySelectorAll does the same thing as querySelector, except it returns all of the elements that match the selector, not just the first one.

Sources:

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

[https://developer.mozilla.org/en-US/docs/Web/API/Document\\_object\\_model/Locating\\_DOM\\_elements\\_using\\_selectors](https://developer.mozilla.org/en-US/docs/Web/API/Document_object_model/Locating_DOM_elements_using_selectors)

2. The document object is a way to represent the HTML webpage so that programming languages can interact with and make changes to the content of the page. The DOM is a Web API that is used to help build websites. Without the DOM, JavaScript wouldn't have a way to interact with the elements of the webpage. It represents all the objects that make up the webpage so that we can use selectors and find certain nodes or elements and change them or add/remove/update them.

Sources:

[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)