

Selecting DOM Elements in JavaScript:

1. **getElementById:**

- This method selects an element by its unique **id** attribute.
- Example:

```
const element = document.getElementById("myElement");
```

2. **getElementsByClassName:**

- This method selects elements by their CSS class names. It returns a collection of elements.
- Example:

```
const elements = document.getElementsByClassName("myClass");
```

3. **getElementsByTagName:**

- This method selects elements by their HTML tag name. It returns a collection of elements.
- Example:

```
const paragraphs = document.getElementsByTagName("p");
```

4. **querySelector:**

- This method allows you to select the first element that matches a CSS selector.
- Example:

```
const element = document.querySelector("#myElement");
```

```
const firstParagraph = document.querySelector("p");
```

5. **querySelectorAll:**

- Similar to **querySelector**, this method selects all elements that match a CSS selector and returns a collection.
- Example:

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```
const elements = document.querySelectorAll(".myClass");
```

6. **querySelector in Context:**

- You can also use **querySelector** and **querySelectorAll** within a specific element context by calling them on that element.
- Example:

```
const parentElement = document.getElementById("parentElement"); const  
childElement = parentElement.querySelector(".childClass");
```

7. **parentNode** and **children**:

- You can navigate the DOM hierarchy using **parentNode** to access the parent element and **children** to access child elements.
- Example:

```
const childElement = document.getElementById("childElement"); const  
parentElement = childElement.parentNode; const allChildren =  
parentElement.children;
```

8. **nextElementSibling** and **previousElementSibling**:

- These properties allow you to access the next and previous sibling elements in the DOM.
- Example:

```
const currentElement = document.getElementById("currentElement"); const  
nextElement = currentElement.nextElementSibling; const previousElement =  
currentElement.previousElementSibling;
```