

JS Selectors

JS selector are used to select elements from DOM we can get or set data after selecting them.



We can select them by ID, Class, Tag Name or Name attribute etc.

getElementById

Returns an element with the particular ID from DOM. And **null** if ID is not present.



```
// HTML
<div id="id-selector">ID Selector</div>

// JavaScript
const id = document.getElementById("id-selector");
console.log(id);
```



Gagan Saini

getElementsByClassName

Returns all elements with the particular class from DOM. And **empty array** if class is not present.



```
// HTML
<div class="class-selector">Class</div>

// JavaScript
const classItems =
document.getElementsByClassName( "class-selector" );
console.log(classItems);
```



Gagan Saini

getElementsByTagName

Returns all elements with the particular tag name from DOM. And **empty array** if these tag elements is not present.



```
// HTML
<h1>Heading 1</h1>
<h1>Heading 2</h1>

// JavaScript
const tags = document.getElementsByTagName("h1");
console.log(tags);
```



Gagan Saini

querySelector

Returns the first element which match the requirement from DOM. And if requirement does not match then it returns **null**.



```
// HTML
<p id="main-item">ID</p>
<div class="item">query selector</div>

// JavaScript
const item = document.querySelector(".item");
console.log(item);
const idItem = document.querySelector("#main-item");
console.log(idItem);
```



Gagan Saini

querySelectorAll

Returns the all elements which match the requirement from DOM. And if requirement does not match then it returns **empty array**.



```
// HTML
<div class="items">query selectorall</div>
<div class="items">query selectorall</div>

// JavaScript
const allItems = document.querySelectorAll(".items");
console.log(allItems);
```



Gagan Saini

getElementsByName

Returns all elements which match the name attribute value from DOM. And if requirement does not match then it returns **empty array**.



```
// HTML
<input type="text" name="input" />
<input type="text" name="input" />

// JavaScript
const inputs = document.getElementsByName("input");
console.log(inputs);
```



Gagan Saini

parentNode

Returns parent element of selected item.
In case of html tag returns **document**.



```
// HTML
<body>
  <div class="item">Item</div>
</body>

// JavaScript
const parent =
document.querySelector( ".item" ).parentNode;
console.log(parent);
```



Gagan Saini

childNodes

Returns all children of selected item. If no children found then returns **text of selected item**. It also include text.



```
// HTML
<body>
  <div class="item">Item<p>Paragraph</p></div>
</body>

// JavaScript
const childNodes =
document.querySelector(".item").childNodes;
console.log(childNodes);
```



Gagan Saini

children

Returns all children of selected item. If no children found then returns **empty array**. It also does not include text.

```
● ● ●  
// HTML  
<body>  
  <div class="item">Item<p>Paragraph</p></div>  
</body>  
  
// JavaScript  
const children =  
document.querySelector(".item").children;  
console.log(children);
```



Gagan Saini

nextSibling & nextElementSibling

Returns text of next sibling. And **null** if there is no next sibling. And nextElementSibling return next sibling element.



```
// HTML
<div class="item">Item</div>
<p>Paragraph</p>

// JavaScript
const next =
document.querySelector(".item").nextSibling;
console.log(next);

const nextElem =
document.querySelector(".item").nextElementSibling;
console.log(nextElem);
```



Gagan Saini

previousSibling & previousElementSibling

Returns text of previous sibling. And **document** if there is no previous sibling. And previousElementSibling return previous sibling element. if not then**null**.

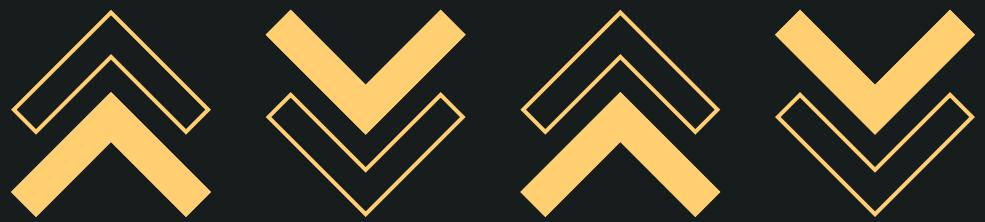


```
// HTML
<p>Paragraph</p>
<div class="item">Item</div>

// JavaScript
const previous =
document.querySelector(".item").previousSibling;
console.log(previous);

const previousElem =
document.querySelector(".item").previousElementSibling;
console.log(previousElem);
```





Repost this to help others!



@ Gagan Saini

WEB DEVELOPER