

JavaScript DOM Manipulation



Mastering DOM Manipulation with JavaScript



Jimmy Ramani
@jimmyramani

Selecting Elements

document.documentElement :

Represents the root element (<html>) of the document.

document.head :

Represents the <head> element of the document.

document.body :

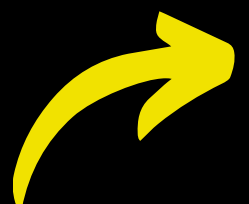
Represents the <body> element of the document.

Example :

```
1 console.log(document.documentElement); // <html>...</html>
2 console.log(document.head); // <head>...</head>
3 console.log(document.body); // <body>...</body>
```



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@jimmyramani



document.querySelector :

Selects the first element that matches the given CSS selector.

Example :



```
1 const mainHeader = document.querySelector('h1');  
2 // Selects the first <h1> element
```

document.querySelectorAll :

Selects all elements that match the given CSS selector.

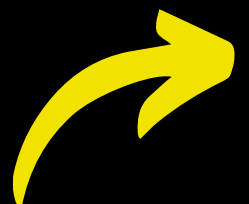
Example :



```
1 const paragraphs = document.querySelectorAll('p');  
2 // Selects all <p> elements
```



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document.getElementById :

Selects an element by its unique ID.

Example :



```
1 const myDiv = document.getElementById('myDiv');  
2 // Selects element with ID "myDiv"
```

document.getElementsByTagName :

Selects all elements that match the given CSS selector.

Example :

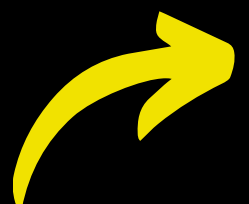


```
1 const headings = document.getElementsByTagName('h2');  
2 // Selects all <h2> elements
```

returns a live HTMLCollection that directly
reflects changes made to the DOM.
other not automatically update



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document.getElementsByClassName :

Selects elements by their class name.

Example :



```
1 const buttons = document.getElementsByClassName('btn');  
2 // Selects elements with class "btn"
```

document.getElementsByName :

Selects elements by their name attribute.

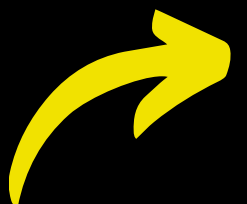
Example :



```
1 const usernameInputs = document.getElementsByName('username');  
2 // Selects elements with name "username"  
3  
4 for (let input of usernameInputs) {  
5     console.log(input.value);  
6     // Outputs values of inputs with name "username"  
7 }
```



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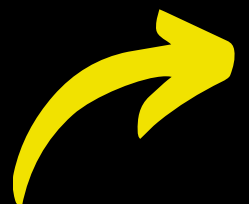


Creating and Inserting Elements

```
1  const message = document.createElement("div");
2
3  message.classList.add("message"); // Adding a class
4  message.textContent = "We just started ..."; // Setting text content
5  message.innerHTML = 'We just started <button class="btn">Got it!</butt
   on>'; // Setting inner HTML
6
7  // Selecting the header element
8  const header = document.querySelector("header");
9
10 // Inserting the message element
11 header.prepend(message); // Inserts at the beginning of header
12 header.append(message); // Inserts at the end of header
13 header.append(message.cloneNode(true)); // Inserts a clone at the end
   of header
14 header.before(message); // Inserts before the header
15 header.after(message); // Inserts after the header
```



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@jimmyramani



Deleting Elements

remove():



```
1 document.querySelector(".btn").addEventListener  
  ("click", function () {  
2   message.remove();  
3 });
```

parentElement.removeChild():

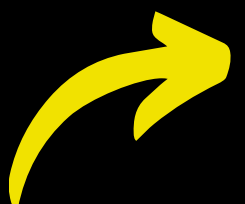


```
1 document.querySelector('.btn').addEventListener  
  ('click', function() {  
2   message.parentElement.removeChild(message);  
3 });
```

we've added an event listener to the .btn element that removes the message element when the button is clicked. You can also achieve the same result using the `parentElement.removeChild()` method ...



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Playing all above with UI

just click on

<https://codepen.io/jimmyramani>

Go to

View Source Code

Go to

Js File

Go to last

Uncommenting the code
& start practising



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Jimmy Ramani

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