

JavaScript DOM Usage Guide

Introduction

This README provides a guide on how to use JavaScript to manipulate the Document Object Model (DOM). The DOM represents the structure of an HTML document and allows JavaScript to interact with and modify the content dynamically.

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Getting Started

To use JavaScript to interact with the DOM, include the following script tag in your HTML file:

```
<script src="your-script.js"></script>
```

Replace "your-script.js" with the path to your JavaScript file.

Selecting Elements

By ID

You can select an element by its ID using `document.getElementById()`:

```
const elementById = document.getElementById("yourElementId");
```

By Class

To select elements by class, use `document.getElementsByClassName()`:

```
const elementsByClass =  
document.getElementsByClassName("yourClassName");
```

By Tag Name

Select elements by tag name with `document.getElementsByTagName()`:

```
const elementsByTag = document.getElementsByTagName("yourTagName");
```

Query Selector

Use `document.querySelector()` to select the first matching element:

```
const element = document.querySelector("yourSelector");
```

Query Selector All

`document.querySelectorAll()` selects all matching elements:

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

Manipulating Elements

Changing HTML Content

You can change the HTML content of an element using `innerHTML`:

```
elementById.innerHTML = "New Content";
```

Changing Text Content

To change the text content, use `textContent`:

```
elementById.textContent = "New Text";
```

Modifying Attributes

Modify element attributes using `setAttribute()`:

```
elementById.setAttribute("attributeName", "attributeValue");
```

Creating Elements

Create new elements with `document.createElement()`:

```
const newElement = document.createElement("div");
```

Appending and Removing Elements

Append a child element with `appendChild()`:

```
elementById.appendChild(newElement);
```

Remove an element with `removeChild()`:

```
elementById.removeChild(childElement);
```

Event Handling

Adding Event Listeners

Use `addEventListener()` to handle events:

```
elementById.addEventListener("click", function () {  
    // Your event handling code here  
});
```

Event Object

Access the event object to gather information about the event:

```
elementById.addEventListener("click", function (event) {  
    console.log(event.target);  
});
```

Conclusion

This guide provides a basic overview of using JavaScript to manipulate the DOM. Experiment with these concepts to create dynamic and interactive web pages.