JavaScript DOM Maniupulation Methods

JS

Methods

- Selecting Elements
- Changing Text Content
- Changing HTML Content
- Manipulating Attributes
- Adding and Removing Classes
- Creating and Adding New Elements
- Removing Elements
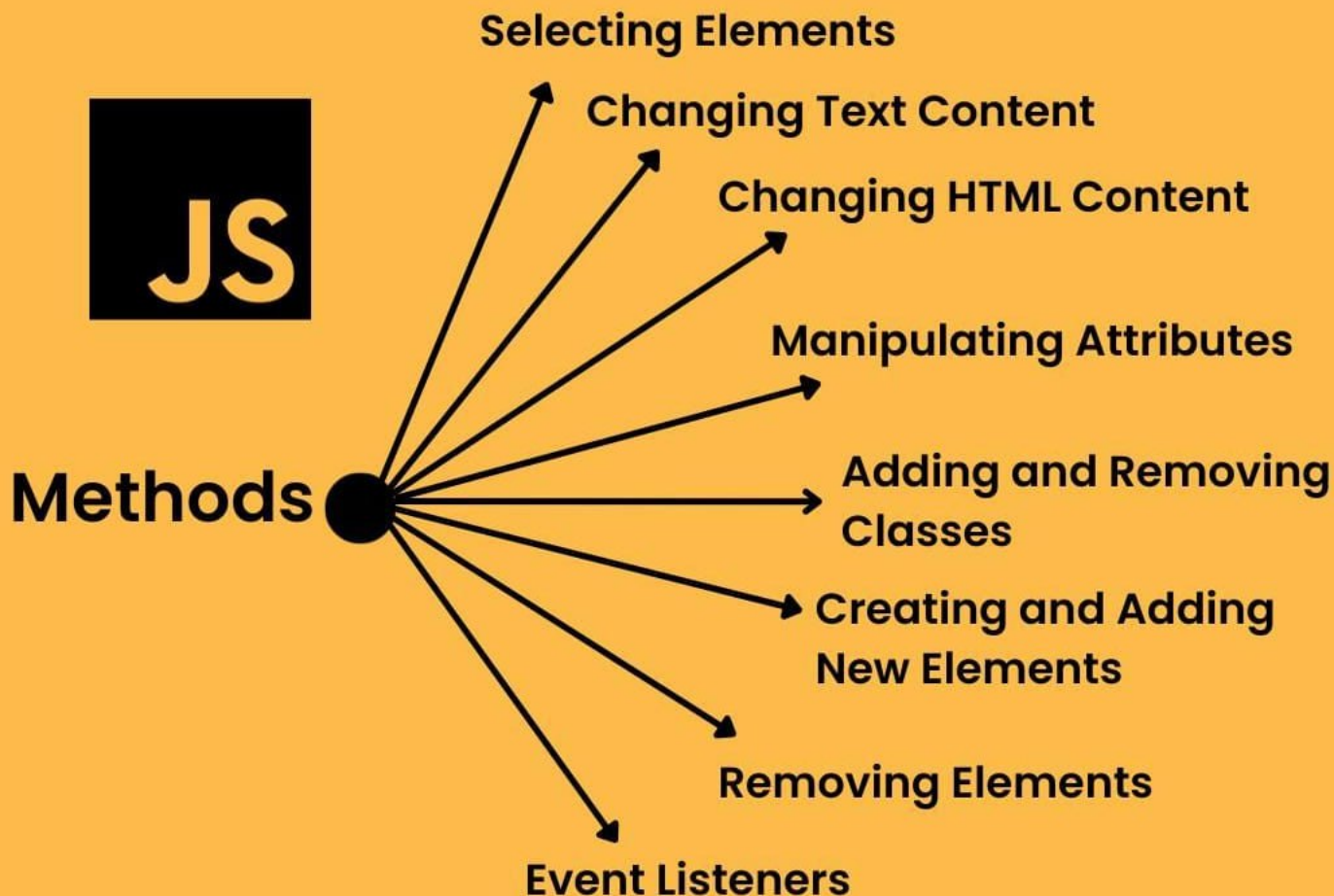- Event Listeners

1. Selecting Elements:

- **document.getElementById('id'):** Gets an element by its ID.

- **document.querySelector('selector'):** Gets the first element that matches the provided CSS selector.

- **document.querySelectorAll('selector'):** Gets all elements that match the provided CSS selector.

```javascript
Let div = document.getElementById('myDiv');
Let firstButton = document.querySelector('button');
Let allButtons = document.querySelectorAll('button');
```

2. Changing Text Content:

- **element.textContent:** Gets or sets the text content of an element.

```
1   div.textContent = 'New text content!';
```

3. Changing HTML Content:

- **element.innerHTML:** Gets or sets the HTML content inside an element.

```
1   div.innerHTML = '<strong>This is bold text.</strong>';
```

4. Manipulating Attributes:

- **element.getAttribute('attribute'):** Gets the value of an attribute.

- **element.setAttribute('attribute', 'value'):** Sets the value of an attribute

```
1  Let link = document.querySelector('a');
2  Let hrefValue = link.getAttribute('href');
3  link.setAttribute('href', 'https://www.example.com');
```

5. Adding and Removing Classes:

- **element.classList.add('class'):** Adds a class to an element.

- **element.classList.remove('class'):** Removes a class from an element.

- **element.classList.toggle('class'):** Toggles a class (adds it if it doesn't exist, removes it if it does).

```
1   div.classList.add('highlight');
2   div.classList.remove('old-highlight');
3   div.classList.toggle('toggle-class');
```

6. Creating and Adding New Elements:

- **document.createElement('elementName'):** Creates a new DOM element.

```javascript
1   let newPara = document.createElement('p');
2   newPara.textContent = 'This is a new paragraph.';
3   div.appendChild(newPara);
4   // Adds the new paragraph as a child of the div.
```

7. Removing Elements:

- **element.removeChild(childElement):** Removes a child element from the specified element.

- **element.remove():** Removes the element directly.

```
1   div.removeChild(newPara);
2   // or
3   newPara.remove();
```

8. Manipulating Attributes:

- Use **element.addEventListener('event', function)** to respond to user interactions

```
1  firstButton.addEventListener('click', function() {
2      alert('Button was clicked!');
3  });
```