

## JavaScript `classList` Explained with Examples

The `classList` property in JavaScript provides an easy and powerful way to manipulate the list of CSS classes assigned to an HTML element. It returns a live `DOMTokenList` of the element's classes and offers several methods to add, remove, toggle, and check classes without directly handling the class attribute as a string [\[1\]](#) [\[2\]](#).

### Key Features of `classList`

- Provides a convenient, readable API for working with CSS classes.
- Allows adding, removing, toggling, and replacing classes.
- Supports checking if a class is present.
- Enables adding/removing multiple classes at once.

### Basic Usage Examples

Suppose you have the following HTML element:

```
<div id="myDiv" class="foo bar"></div>
```

Select the element in JavaScript:

```
const element = document.getElementById('myDiv');
```

#### Add a Class

```
element.classList.add('newClass');  
// Now: <div id="myDiv" class="foo bar newClass"></div>
```

Adds the class `newClass` to the element [\[1\]](#) [\[3\]](#) [\[2\]](#).

#### Remove a Class

```
element.classList.remove('bar');  
// Now: <div id="myDiv" class="foo newClass"></div>
```

Removes the class `bar` from the element [\[1\]](#) [\[2\]](#).

#### Toggle a Class

```
element.classList.toggle('active');  
// Adds 'active' if not present, removes if present
```

Toggles the active class on or off<sup>[1]</sup> <sup>[2]</sup>.

### Check if a Class Exists

```
if (element.classList.contains('foo')) {  
  // Do something if 'foo' is present  
}
```

Returns true if the class exists, otherwise false<sup>[1]</sup> <sup>[2]</sup>.

### Replace a Class

```
element.classList.replace('foo', 'baz');  
// Replaces 'foo' with 'baz'
```

Replaces an existing class with a new one<sup>[1]</sup> <sup>[2]</sup>.

### Add/Remove Multiple Classes

```
element.classList.add('first', 'second', 'third');  
element.classList.remove('first', 'second');
```

You can add or remove several classes at once by passing multiple arguments<sup>[1]</sup> <sup>[2]</sup>.

### Get the Number of Classes

```
let count = element.classList.length;
```

Returns the number of classes on the element<sup>[1]</sup>.

### Get a Class by Index

```
let firstClass = element.classList.item(0);
```

Returns the class name at the specified index<sup>[1]</sup>.

### Practical Example: Toggle Dropdown

```
document.getElementById("myBtn").onclick = function() {  
  document.getElementById("myDropdown").classList.toggle("show");  
};
```

This toggles the `show` class on a dropdown menu when a button is clicked<sup>[1]</sup>.

## Summary Table of Common `classList` Methods

Method	Description	Example Usage
<code>.add(class1, ...)</code>	Adds one or more classes	<code>e1.classList.add('a', 'b')</code>
<code>.remove(class1, ...)</code>	Removes one or more classes	<code>e1.classList.remove('a', 'b')</code>
<code>.toggle(class, [force])</code>	Toggles a class on/off, or sets explicitly if <code>force</code>	<code>e1.classList.toggle('a')</code>
<code>.contains(class)</code>	Checks if a class exists	<code>e1.classList.contains('a')</code>
<code>.replace(old, new)</code>	Replaces an existing class with a new one	<code>e1.classList.replace('a', 'b')</code>
<code>.length</code>	Number of classes	<code>e1.classList.length</code>
<code>.item(index)</code>	Class name at a given index	<code>e1.classList.item(0)</code>

## Why Use `classList`?

- **Cleaner syntax:** No need to manually split/join class strings.
- **Safer:** Avoids accidental removal or duplication of class names.
- **More readable:** Methods clearly describe the intended action.

### In summary:

The `classList` property is the modern, recommended way to manage CSS classes on DOM elements in JavaScript, making your code more robust and easier to maintain<sup>[1] [3] [2]</sup>.

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1. [https://www.w3schools.com/jsref/prop\\_element\\_classlist.asp](https://www.w3schools.com/jsref/prop_element_classlist.asp)
2. <https://developer.mozilla.org/en-US/docs/Web/API/Element/classList>
3. <https://www.javascripttutorial.net/javascript-dom/javascript-classlist/>