

CHAPTER 8 – JS METHODS & DOCUMENTS

JS Properties & Methods

A property is a value that you can get or set (like changing the content of an HTML element). HTML DOM properties are values (on HTML Elements) that you can set or change.

A method is an action you can do (like add or deleting an HTML element). HTML DOM methods are actions you can perform (on HTML Elements).

e.g.- `<script>`

`document.getElementById("demo").innerHTML="Hello World!";`

`</script>`

Method

Property

The HTML DOM Document Object

If you want to access any element in an HTML page, you always start with accessing the document object.

Some examples of how you can use the document object to access & manipulate HTML.

1. Finding HTML Elements

Method	Description
<code>document.getElementById(id)</code>	Find an element by element id
<code>document.getElementsByTagName(name)</code>	Find elements by tag name
<code>document.getElementsByClassName(name)</code>	Find elements by class name

e.g.- i. *`const element = document.getElementById("intro");`*
ii. *`const element = document.getElementsByTagName("p");`*
iii. *`const x = document.getElementsByClassName("intro");`*

2. Changing HTML Elements

Property	Description
<i><code>element.innerHTML = new html content</code></i>	Change the inner HTML of an element
<i><code>element.attribute = new value</code></i>	Change the attribute value of an HTML element
<i><code>element.style.property = new style</code></i>	Change the style of an HTML element
Method	Description
<i><code>element.setAttribute(attribute, value)</code></i>	Change the attribute value of an HTML element

e.g.-

i. `<html>`

`<body>`

`<p id="p1">Hello World!</p>`

`<script>`

`document.getElementById("p1").innerHTML = "New text!";`

`</script>`

`</body>`

`</html>`

ii. `<!DOCTYPE html>`

`<html>`

`<body>`

`<h1 id="id01">Old Heading</h1>`

`<script>`

`const element = document.getElementById("id01");`

`element.innerHTML = "New Heading";`

`</script>`

`</body>`

`</html>`

iii. `<html>`

`<body>`

`<p id="p2">Hello World!</p>`

`<script>`

`document.getElementById("p2").style.color = "blue";`

`</script>`

`</body>`

`</html>`

iv. `<!DOCTYPE html>`

`<html>`

`<body>`

``

`<script>`

`document.getElementById("myImage").src = "landscape.jpg";`

`</script>`

`</body>`

`</html>`

3. Adding & Deleting Elements

Method	Description
<code>document.createElement(<i>element</i>)</code>	Create an HTML element
<code>document.removeChild(<i>element</i>)</code>	Remove an HTML element
<code>document.appendChild(<i>element</i>)</code>	Add an HTML element
<code>document.replaceChild(<i>new</i>, <i>old</i>)</code>	Replace an HTML element
<code>document.write(<i>text</i>)</code>	Write into the HTML output stream

4. Adding Events Handlers

Method	Description
<code>document.getElementById(<i>id</i>).onclick = function(){<i>code</i>}</code>	Adding event handler code to an onclick event

e.g.- `<!DOCTYPE html>`

`<html>`

`<body>`

`<h1 id="id1">My Heading 1</h1>`

`<button type="button"`

`onclick="document.getElementById('id1').style.color = 'red'">`

`Click Me!</button>`

`</body>`

`</html>`