DOM in JavaScript - Methods, Properties & Examples

Accessing Elements

- document.getElementById(id): Gets an element by its ID. Example: document.getElementById("title")
- document.getElementsByClassName(class): Returns elements with the given class. Example: document.getElementsByClassName("item")
- document.getElementsByTagName(tag): Returns elements by tag name. Example:
 document.getElementsByTagName("p")
- document.querySelector(selector): Returns the first match of a CSS selector. Example: document.querySelector(".my-class")
- document.querySelectorAll(selector): Returns all matches. Example: document.querySelectorAll("div.note")

Modifying Content and Attributes

- innerHTML: Get/set HTML content. Example: el.innerHTML = "Hi"
- innerText: Get/set visible text. Example: el.innerText = "Hello World"
- textContent: Get/set all text. Example: el.textContent = "Hidden Text"
- setAttribute(attr, val): Set an attribute. Example: el.setAttribute("class", "box")
- getAttribute(attr): Get an attribute. Example: el.getAttribute("id")
- removeAttribute(attr): Remove an attribute. Example: el.removeAttribute("style")

Styling Elements

- style.property: Set inline styles. Example: el.style.color = "red"
- classList.add(class): Add a class. Example: el.classList.add("active")
- classList.remove(class): Remove a class. Example: el.classList.remove("hidden")
- classList.toggle(class): Toggle a class. Example: el.classList.toggle("dark-mode")

Creating and Removing Elements

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- createElement(tag): Create new element. Example: document.createElement("div")
- appendChild(el): Add child. Example: parent.appendChild(child)
- removeChild(el): Remove child. Example: parent.removeChild(child)
- replaceChild(new, old): Replace child. Example: parent.replaceChild(newEl, oldEl)
- insertBefore(new, ref): Insert before. Example: parent.insertBefore(newEl, refEl)

Other Useful Properties

- children: Get child elements. Example: div.children
- parentElement: Get parent. Example: el.parentElement
- firstElementChild: First child. Example: el.firstElementChild
- lastElementChild: Last child. Example: el.lastElementChild

Example: DOM Manipulation