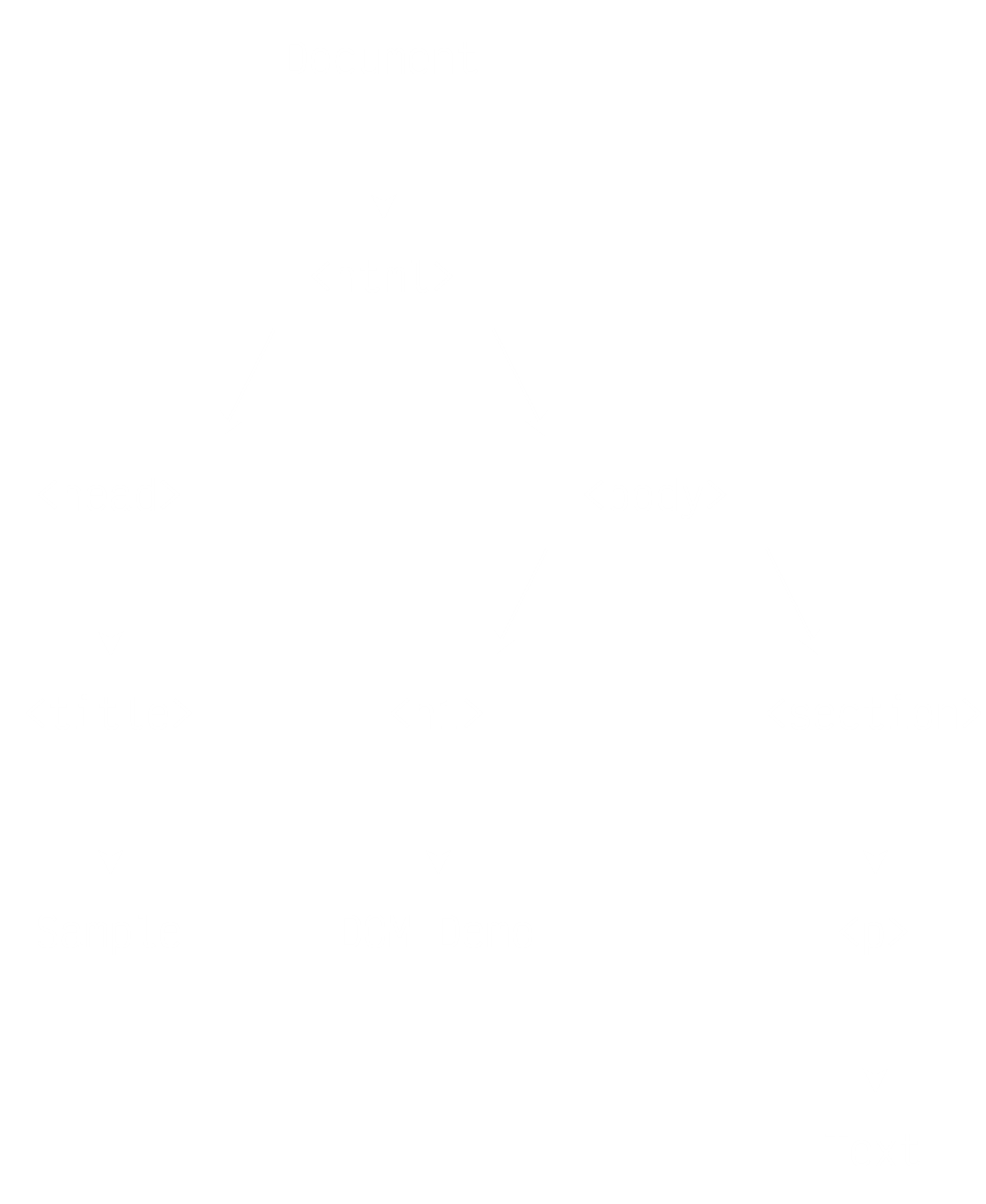
DOM Manipulation

The **Document Object Model** (DOM) is a **structured representation** of the entire HTML document, basically a tree. It is created automatically when the browser loads the HTML page, and it represents the document elements as nodes and objects. We can use the DOM and the methods it provides to manipulate the HTML elements and styles through JavaScript.

<html>  
<head>  
 <title>Sample</title>  
</head>  
<body>  
<h1>DOM Demon</h1>  
<section>  
 <p>Text</p>  
</section>  
</body>  
</html>

HTML



Every DOM starts with a Document object, after which we have all the other elements as its children. Also note that not only are the **tags** shown in the tree, but even the **text content** of the tags are regarded as their own elements.

DOM and its methods are not actually a part of JavaScript. They are part of something called the **Web API**, which are **libraries** written in JavaScript and implemented by web browsers. These libraries can be accessed through JavaScript code. All browsers implement an official DOM specification, so DOM manipulation works the same regardless of which browser is being used.

*// 1. Selecting an element  
// selecting read-only text*let welcome\_msg = document.querySelector("#welcome-msg").textContent;  
*// selecting user input*let email = document.querySelector("#email-input").value;  
  
*// 2. Modifying content*welcome\_msg = document.querySelector("#welcome-msg");  
welcome\_msg.textContent = "New Welcome Message";  
  
*// 3. Handling events*print\_email = function (e) {  
 e.preventDefault(); *// prevent page refresh so we can see console log* email = document.querySelector("#email-input").value;  
 console.log(email);  
}  
let submit\_btn = document.querySelector(".submit");  
submit\_btn.addEventListener("click", print\_email);  
  
*// 4. Manipulating CSS Styles*let body = document.querySelector("body");  
body.style.backgroundColor = "#000000";

JS