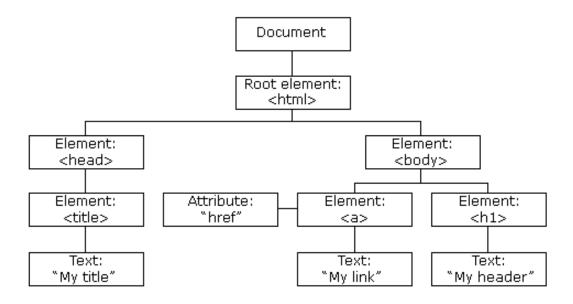
8.1 The Document Object Model



dental clinic - answered by Maynard Arvin Villalobos

The HTML DOM (Document Object Model)

- With the HTML DOM, JavaScript can access and change all the elements of an HTML document.
- When a web page is loaded, the browser creates a Document Object Model of the page.
- The HTML DOM model is constructed as a tree of Objects:



- With the object model, JavaScript gets all the power it needs to create dynamic HTML:
 - JavaScript can add, change and/or remove all the HTML elements and attributes in the page.
 - JavaScript can change all the CSS styles in the page.

- JavaScript can create new HTML events in the page.
- JavaScript can react to all existing HTML events in the page.
- The DOM is a W3C (World Wide Web Consortium) standard.
- The DOM defines a standard for accessing documents.

The DOM programming interface

- The HTML DOM can be accessed with JavaScript (and with other programming languages).
- In the DOM, all HTML elements are defined as objects.
- The programming interface is the properties and methods of each object.
 - A property is a value that you can get or set (like changing the content of an HTML element).
 - o A method is an action you can do (like add or deleting an HTML element).

```
<html>
<body>
id="demo">
<script>
document.getElementById("demo").innerHTML = "Hello World!";
</script>
</body>
</body>
</html>
```

- In the example above, getElementById is a method, while innerHTML is a property.
- The most common way to access an HTML element is to use the id of the element.
 - In the example above the getElementById method used <a href="id="demo" to find the element.
- The easiest way to get the content of an element is by using the [innerHTML] property.
 - The innerHTML property is useful for getting or replacing the content of HTML elements.

Keyword(s)	Description	Sample code
getElementById	Retrieves a single	<pre>This is some initial text.</pre>
	HTML element	<pre><button onclick="changeText()">Change Text</button></pre>
	from a web	
	page's document	<script></td></tr><tr><td>object model</td><td><pre>function changeText() {</pre></td></tr><tr><td>(DOM) based on</td><td><pre>let paragraph = document.getElementById("my_para");</pre></td></tr><tr><td>its unique ID</td><td></td></tr><tr><td>attribute</td><td>paragraph.innerHTML = "Text has been changed!";</td></tr><tr><td>innerHTML</td><td>Allows you to access and</td><td><pre>} </script>

modify the HTML content within an element.

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Elements Properties

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accessKey

Flements Methods

Additional Material

- References
 - W3Schools