DIFFERENCE BETWEEN DOCUMENT OBJECT AND WINDOW OBJECT

Document object

The Document object in JavaScript represents the web page itself. It serves as an entry point to access and manipulate the elements and content of the webpage. The Document object provides a variety of properties and methods to interact with the document.

One of the key properties of the Document object is "documentElement", which refers to the root element of the HTML document. This property allows you to access the entire HTML markup of the web page.

Window object

The window object is the topmost object of the DOM hierarchy. It represents a browser window or frame that displays the contents of the webpage. Whenever a window appears on the screen to display the contents of the document, the window object is created.

When to Use Which Object

Now that we have a clear understanding of the key differences between the Document and Window objects in JavaScript, it's important to know when to use each object in your coding endeavours When working with web elements within a specific webpage, the Document object is your go-to choice. Whether you need to update the content, change the style, or manipulate the structure of elements like paragraphs, buttons, or forms, the Document object provides the necessary methods and properties. On the other hand, if you aim to interact with the browser window or tab itself, the Window object is your best bet. Need to get the dimensions of the browser window,
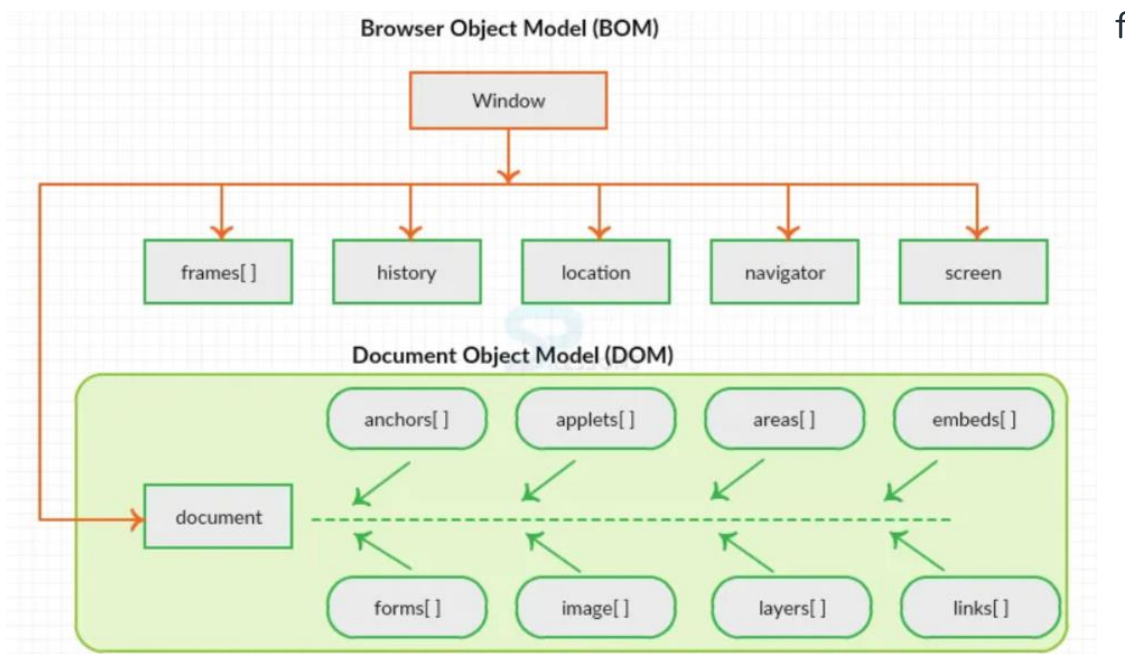
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navigate the user's browsing history, or open a new window or tab? The Window object has got you covered.

Furthermore, if your web application involves multiple browsing contexts, such as iframes or frames, the Window object's versatility allows you to seamlessly interact with these contexts and create dynamic and interactive user experiences.

By understanding the appropriate use cases for each object, you can maximize the potential of JavaScript and ensure an efficient and effective development process. In the following section, we will dive into specific examples and practical applications of utilizing both the Document and Window objects in real-world scenario

Hierarchy of Window and Document object using BOM and DOM

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DOCUMENT OBJECT	WINDOW OBJECT
It represents any HTML document or web page that is loaded in the browser.	It represents a browser window or frame that displays the contents of the webpage
It is loaded inside the window.	It is the very first object that is loaded in the browser.
It is the object of window property.	It is the object of the browser
All the tags, elements with attributes in HTML are part of the document.	Global objects, functions, and variables of JavaScript are members of the window object.
We can access the document from a window using the window. document	We can access the window from the window only. i.e. window.window
The document is part of BOM (browser object model) and dom (Document object model)	The window is part of BOM, not DOM.
Properties of document objects such as title, body, cookies, etc can also be accessed by a window like this window. document.title	Properties of the window object cannot be accessed by the document object
syntax: document.propertyname;	syntax: window.propertyname;
example: document.title : will return the title of the document	example: window.innerHeight : will return the height of the content area of the browser