

Document and window object difference

The Browser Object Model contains objects that represent the current browser window or tab. The topmost object in the BOM is the window object representing the window or tab or an iframe sometimes. Window object has properties like browser history, location and the device's screen etc. In case of multi tab browser, a window object represents a single tab, but some of its properties like innerHeight, innerWidth and methods like `resizeTo()` will affect the whole browser window.

Document Object Model

When a web page is loaded, the browser creates a Document Object Model of the page. The document object represents the whole html document as a tree of Objects(HTML, HEAD, BODY, and other HTML tags). It is the root element that represents the html document.

Window Vs Document

Window object : It is the top most object and outermost element of the object hierarchy as shown in Figure 1.

Document object : Each HTML document that gets loaded into a window becomes a document object. The document contains the contents of the page. Using document object, JavaScript can modify, add and delete the HTML elements, attributes CSS styles in the page

The window object represents a window/tab containing a DOM document where as document object is property of window object that points to the DOM document loaded in that window.

You can access a document object either using `window.document` property or using document object directly as window is global object. In the below example, title is the property of document object.

The other major difference is that both window object and document object have properties and methods. Few method names are same in both objects but with different behavior. In the below example `window.open()` opens a new tab or window and `document.open()` creates a blank document within the window.

Document Object:

The document object represents a web page that is loaded in the browser. By accessing the document object, we can access the element in the HTML page. With the help of document objects, we can add dynamic content to our web page. The document object can be accessed with a `window.document` or just `document`.

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.