

What is the difference between document and window objects

WINDOW object and DOCUMENT object ARE NOT THE SAME!!!!

Window Object Model

The Window Object Model contains objects that represent the current browser window or tab. The topmost object in the WOM is the window object representing the window or tab or an iframe sometimes. The window is the first thing that gets loaded into the browser. This window object has the majority of the properties like length, innerWidth, innerHeight, name, if it has been closed, its parents, and more.

Window object has properties like browser history, location and the device's screen etc. In the case of a 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.

Each HTML document that gets loaded into a window becomes a document object. The document contains the contents of the page. Using a 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 whereas a document object is property of a window object that points to the DOM document loaded in that window.

DOM(Tree like structure)

```
<html>
<body>
<title>MY FIRST BLOG</title>
<p>HELLO GUVI WORLD </p>
</body>
</html>
```

HTML Parser

DOM

HTML Elements **<html>**



HTML Body Element **<body>**



HTML **<p>** element

HTML **<title>** element

We can access a document object either using *window.document* property or using document object directly as window is a global object.

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