Write a blog on difference between Windows object and Document Object

**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.

**Syntax:**

window.property\_name;

**Methods of Window:**

**Syntax:**

window.method\_name;

The methods of Window objects that are commonly used are listed in the below table:

* [**alert()**](https://www.geeksforgeeks.org/html-window-alert-method/): It is used to display an alert box. It displays a specified message along with an OK button and is generally used to make sure that the information comes through the user.
* [**atob()**](https://www.geeksforgeeks.org/html-window-atob-method/): It is used for decoding a base-64 encoded string. It is used to decode a string of data that has been encoded using the btoa() method.
* [**blur()**](https://www.geeksforgeeks.org/javascript-window-blur-and-window-focus-method/): It is used to remove focus from the current window.
* [**btoa()**](https://www.geeksforgeeks.org/html-dom-window-btoa-method/): It is used for encoding a string in base-64 format.
* [**clearInterval()**](https://www.geeksforgeeks.org/javascript-cleartimeout-clearinterval-method/): It clears the interval which has been set by the setInterval() function before that.
* [**clearTimeout()**](https://www.geeksforgeeks.org/javascript-cleartimeout-clearinterval-method/)**:**It clears the timeout which has been set by the setTimeout()function before that.
* [**close()**](https://www.geeksforgeeks.org/javascript-window-close-method/)**:**It is used for closing a certain window or tab of the browser which was previously opened.
* [**confirm()**](https://www.geeksforgeeks.org/javascript-window-confirm-method/)**:**It is used to display a modal dialog with an optional message and two buttons i.e. OK and Cancel. It returns true if the user clicks “OK”, and false otherwise.
* [**focus()**](https://www.geeksforgeeks.org/javascript-window-blur-and-window-focus-method/)**:**It is used to give focus to an element in the current window.
* [**getComputedStyle()**](https://www.geeksforgeeks.org/javascript-window-getcomputedstyle-method/)**:**It is used to get all the computed CSS properties and values of the specified element.
* **getSelection()**: It returns a Selection object representing the range of text selected by the user
* [**matchMedia()**](https://www.geeksforgeeks.org/html-window-matchmedia-method/): It is used to return a MediaQueryList object which represents the result of the specified CSS media query string.
* [**open()**](https://www.geeksforgeeks.org/javascript-window-open-method/): It is used to open a new tab or window with the specified URL and name.
* [**moveBy()**](https://www.geeksforgeeks.org/html-window-moveby-method/): It is used for moving a window with a specified number of pixels relative to its current coordinates.
* [**moveTo()**](https://www.geeksforgeeks.org/html-window-moveto-method/): It is used in the window to move the window from the left and top coordinates.
* [**prompt()**](https://www.geeksforgeeks.org/javascript-window-prompt-method/): It is used to display a dialog with an optional message prompting the user to input some text
* [**resizeBy()**](https://www.geeksforgeeks.org/html-window-resizeby-method/): It is used to resize a window by the specified amount.
* [**resizeTo()**](https://www.geeksforgeeks.org/html-window-resizeto-method/): It is used to resize a window to the specified width and height.

## ****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.**

**Syntax:**

document.property\_name;

**Properties of document:**

* [**activeElement**](https://www.geeksforgeeks.org/html-dom-activeelement-property/): It returns the currently active elements in the document.
* [**body**](https://www.geeksforgeeks.org/html-dom-body-property/): It returns the contents of the body element.
* **anchors**: It returns all <a> elements that have a name attribute.
* [**baseURI**](https://www.geeksforgeeks.org/html-dom-baseuri-property/): It returns a string value that represents the base URI of the document.
* [**cookie**](https://www.geeksforgeeks.org/html-dom-cookie-property/): It returns the cookie of the current document.
* [**charSet**](https://www.geeksforgeeks.org/html-dom-script-charset-property/): It returns a string, representing the document’s character encoding.
* [**defaultView**](https://www.geeksforgeeks.org/html-dom-defaultview-property/): It returns the current Window Object.
* [**designMode**](https://www.geeksforgeeks.org/html-dom-designmode-property/): It is used to set documents as editable or read-only.
* [**domain**](https://www.geeksforgeeks.org/html-dom-domain-property/): It returns the domain name of the document server.
* [**doctype**](https://www.geeksforgeeks.org/html-dom-doctype-property/): It returns the document’s doctype.

**Difference between document and window:**

| **document** | **window** |
| --- | --- |
| 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 |