**Differences between Document and Window Objects**

**Document Object:**The document object represent 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.**

**Some of the 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.

**Some of Methods of Document:**

* [**addEventListener()**](https://www.geeksforgeeks.org/html-dom-addeventlistener-method/): It is used to attach an event handler to the specified element.
* [**adoptNode()**](https://www.geeksforgeeks.org/html-dom-adoptnode-method/): It is used to adopt a node from another document and it returns a node object, representing the adopted node.
* [**close()**](https://www.geeksforgeeks.org/html-dom-close-method/): It is used to close the output stream.
* [**createAttribute()**](https://www.geeksforgeeks.org/html-dom-createattribute-method/)**:** It is used to create an attribute node with the specified name and returns the attribute object.
* [**createComment()**](https://www.geeksforgeeks.org/html-dom-createcomment-method/)**:** It is used to create a comment node with some text.
* [**createDocumentFragment()**](https://www.geeksforgeeks.org/html-dom-createdocumentfragment-method/): It is used to create the document fragment to change the content of the document.

## **Window Object**

The window object represents an open window in a browser.

If a document contain frames (<iframe> tags), the browser creates one window object for the HTML document, and one additional window object for each frame.

## **Some of Window Object Properties**

|  |  |
| --- | --- |
| **Property** | **Description** |
| [closed](https://www.w3schools.com/jsref/prop_win_closed.asp) | Returns a boolean true if a window is closed. |
| [console](https://www.w3schools.com/jsref/prop_win_console.asp) | Returns the Console Object for the window. See also [The Console Object](https://www.w3schools.com/jsref/obj_console.asp). |
| [defaultStatus](https://www.w3schools.com/jsref/prop_win_defaultstatus.asp) | Deprecated. |
| [document](https://www.w3schools.com/jsref/prop_win_document.asp) | Returns the Document object for the window. See also [The Document Object](https://www.w3schools.com/jsref/dom_obj_document.asp). |
| [frameElement](https://www.w3schools.com/jsref/prop_win_frameelement.asp) | Returns the frame in which the window runs. |
| [frames](https://www.w3schools.com/jsref/prop_win_frames.asp) | Returns all window objects running in the window. |
| [history](https://www.w3schools.com/jsref/prop_win_history.asp) | Returns the History object for the window. See also [The History Object](https://www.w3schools.com/jsref/obj_history.asp). |

## **Some of Window Object Methods**

|  |  |
| --- | --- |
| **Method** | **Description** |
| [alert()](https://www.w3schools.com/jsref/met_win_alert.asp) | Displays an alert box with a message and an OK button |
| [atob()](https://www.w3schools.com/jsref/met_win_atob.asp) | Decodes a base-64 encoded string |
| [blur()](https://www.w3schools.com/jsref/met_win_blur.asp) | Removes focus from the current window |
| [btoa()](https://www.w3schools.com/jsref/met_win_btoa.asp) | Encodes a string in base-64 |
| [clearInterval()](https://www.w3schools.com/jsref/met_win_clearinterval.asp) | Clears a timer set with setInterval() |
| [clearTimeout()](https://www.w3schools.com/jsref/met_win_cleartimeout.asp) | Clears a timer set with setTimeout() |
| [close()](https://www.w3schools.com/jsref/met_win_close.asp) | Closes the current window |

**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 |