**Difference between Document and Window Object**

**Document:**

1. It represents any HTML document or web page that is loaded in the browser.
2. It is loaded inside the window.
3. It is the object of window property.
4. All the tags, elements with attributes in HTML are part of the document.
5. We can access the document from a window using the window.document
6. The document is part of BOM (browser object model) and DOM (Document object model)
7. Properties of document objects such as title, body, cookies, etc can also be accessed by a window like this window.document.title
8. **syntax:** document.propertyname;
9. **example:** document.title :  will return the title of the document

**Window:**

1. It represents a browser window or frame that displays the contents of the webpage.
2. It is the very first object that is loaded in the browser.
3. It is the object of the browser.
4. Global objects, functions, and variables of JavaScript are members of the window object.
5. We can access the window from the window only. i.e. window.window
6. The window is part of BOM, not DOM.
7. Properties of the window object cannot be accessed by the document object.
8. **syntax:** window.propertyname;
9. **example:** window.innerHeight : will return the height of the content area of

the browser.

**Properties of 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.

[**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.

[**doctype**](https://www.geeksforgeeks.org/html-dom-doctype-property/): It returns the document’s doctype.

**forms**: It returns all the elements of the form.

[**fullScreenElement**](https://www.geeksforgeeks.org/html-dom-fullscreenelement-property/): It returns the element that is currently present in full-screen mode.

[**title**](https://www.geeksforgeeks.org/html-dom-title-property/): It returns the title element of the document.

[**head**](https://www.geeksforgeeks.org/html-dom-head-property/): It returns the head element of the document.

**links**: It returns all <area> and <a> elements that have a “href” attribute.

[**lastModified**](https://www.geeksforgeeks.org/html-dom-lastmodified-property/): It returns the date and time of the current document that was last modified.

**images**: It returns the collection of <img> elements in the document.

[**implementation**](https://www.geeksforgeeks.org/html-dom-implementation-property/): It returns the DOM Implementation object associated with the current document.

[**readyState**](https://www.geeksforgeeks.org/html-dom-readystate-property/): It returns the loading status of the current document.

**scripts**: It returns all script elements present in the document.

**Methods of Document:**

[**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.

[**createElement()**](https://www.geeksforgeeks.org/html-dom-createelement-method/)**:** It is used to create HTML element.

[**getElementById()**](https://www.geeksforgeeks.org/html-dom-getelementbyid-method/): It returns the object of the given ID. If no object with that id exists then it returns null.

[**getElementsByClassName()**](https://www.geeksforgeeks.org/html-dom-getelementsbyclassname-method/): It returns an object containing all the elements with the specified class names in the document as objects.

[**getElementsByName()**](https://www.geeksforgeeks.org/html-dom-getelementsbyname-method/): It returns an object containing all the elements with the specified name in the document as objects.

[**getElementsByTagName()**](https://www.geeksforgeeks.org/html-dom-getelementsbytagname-method/): It returns an object containing all the elements with the specified tag names in the document as objects.

**open()**: It is used to open the output stream to collect the output.

[**write()**](https://www.geeksforgeeks.org/html-dom-write-method/): It is used to write some content or javascript code in the document.

**Properties of the window:**

**DOM Matrix**: It returns a reference to a DOM Matrix object, which represents 4×4 matrices, suitable for 2D and 3D operations.

**History**: It provides information on the URLs visited in the current window.

[**Length**](https://www.geeksforgeeks.org/html-window-length-property/): It represents the number of frames in the current window.

[**innerHeight**](https://www.geeksforgeeks.org/html-window-innerheight-property/): It is used to get the height of the content area of the browser window.

[**innerWidth**](https://www.geeksforgeeks.org/html-window-innerwidth-property/): It is used to get the width of the content area of the browser window.

[**Name**](https://www.geeksforgeeks.org/html-window-name-property/): It contains the name of the referenced window.

**Window**: It returns the current window or frame.

[**outerHeight**](https://www.geeksforgeeks.org/html-window-outerheight-property/): It will get the height of the outside of the browser window.

[**outerWidth**](https://www.geeksforgeeks.org/html-window-outerwidth-property/): It will get the width of the outside of the browser window.

[**Opener**](https://www.geeksforgeeks.org/html-dom-window-opener-properties/): It contains a reference to the window that opened the current window.

[**Parent**](https://www.geeksforgeeks.org/html-dom-window-parent-property/): It refers to the frameset in which the current frame is contained.

**Screen**: It refers to the screen object

[**Self**](https://www.geeksforgeeks.org/html-window-self-property/): It provides another way to refer to the current window.

**Methods of Window:**

[**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

[**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.

[**scrollBy()**](https://www.geeksforgeeks.org/html-window-scrollby-method/): It is used to scroll the document by the given number of pixels.

[**scrollTo()**](https://www.geeksforgeeks.org/javascript-window-scrollto-method/): It is used to scroll to a particular set of coordinates in the document.

[**setInterval()**](https://www.geeksforgeeks.org/java-script-settimeout-setinterval-method/)**:** It repeats a given function at every given time interval.

[**setTimeout()**](https://www.geeksforgeeks.org/java-script-settimeout-setinterval-method/): It executes a function, after waiting a specified number of milliseconds.

[**stop()**](https://www.geeksforgeeks.org/html-dom-window-stop-method/): It is used to stop the window from loading resources in the current browsing context.