# **Difference between document and window objects**

**Window Object**

* The Window object is the top level object in JavaScript, and contains in itself several other objects, such as "document", "history" etc.
* 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.
* Following are properties and methods of Window Object:

**Properties of Window object:**

| **Property** | **Description** |
| --- | --- |
| closed | Returns a Boolean value indicating whether a window has been closed or not |
| defaultStatus | Sets or returns the default text in the statusbar of a window |
| document | Returns the Document object for the window |
| frameElement | Returns the, <iframe> element in which the current window is inserted |
| frames | Returns all,<iframe> elements in the current window |
| history | Returns the History object for the window |
| innerHeight | Returns the inner height of a window's content area |
| innerWidth | Returns the inner width of a window's content area |
| length | Returns the number of, <iframe> elements in the current window |
| location | Returns the Location object for the window (See Location object) |
| name | Sets or returns the name of a window |
| navigator | Returns the Navigator object for the window (See Navigator object) |
| opener | Returns a reference to the window that created the window |
| outerHeight | Returns the outer height of a window, including toolbars/scrollbars |
| outerWidth | Returns the outer width of a window, including toolbars/scrollbars |
| pageXOffset | Returns the pixels the current document has been scrolled (horizontally) from the upper left corner of the window |
| pageYOffset | Returns the pixels the current document has been scrolled (vertically) from the upper left corner of the window |
| parent | Returns the parent window of the current window |
| screen | Returns the Screen object for the window (See Screen object) |
| screenLeft | Returns the horizontal coordinate of the window relative to the screen |
| screenTop | Returns the vertical coordinate of the window relative to the screen |
| screenX | Returns the horizontal coordinate of the window relative to the screen |
| screenY | Returns the vertical coordinate of the window relative to the screen |
| self | Returns the current window |
| status | Sets or returns the text in the statusbar of a window |
| top | Returns the topmost browser window |

**Document Object in Javascript:**

* When an HTML document is loaded into a web browser, it becomes a document object.
* The document object is the root node of the HTML document and the "owner" of all other nodes :( element nodes, text nodes, attribute nodes, and comment nodes).
* The document object provides properties and methods to access all node objects, from within JavaScript.
* The document is a part of the Window object and can be accessed as window.document.

**Properties and Methods of Document Object:**

| **Methods** | **Description** |
| --- | --- |
| alert() | Displays an alert box with a message and an OK button |
| blur() | Removes focus from the current window |
| clearInterval() | Clears a timer set with setInterval() |
| clearTimeout() | Clears a timer set with setTimeout() |
| close() | Closes the current window |
| confirm() | Displays a dialog box with a message and an OK and a Cancel button |
| createPopup() | Creates a pop-up window |
| focus() | Sets focus to the current window |
| moveBy() | Moves a window relative to its current position |
| moveTo() | Moves a window to the specified position |
| open() | Opens a new browser window |
| print() | Prints the content of the current window |
| prompt() | Displays a dialog box that prompts the visitor for input |
| resizeBy() | Resizes the window by the specified pixels |
| resizeTo() | Resizes the window to the specified width and height |
| scroll() | Deprecated. This method has been replaced by the scrollTo() method. |
| scrollBy() | Scrolls the document by the specified number of pixels |
| scrollTo() | Scrolls the document to the specified coordinates |
| setInterval() | Calls a function or evaluates an expression at specified intervals (in milliseconds) |
| setTimeout() | Calls a function or evaluates an expression after a specified number of milliseconds |
| stop() | Stops the window from loading |

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* The document object provides properties and methods to access all node objects, from within JavaScript.
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**Properties and Methods of Document Object:**

| **Property / Method** | **Description** |
| --- | --- |
| document.body | Sets or returns the document's body (the,element) |
| document.close() | Closes the output stream previously opened with document.open() |
| document.cookie | Returns all name/value pairs of cookies in the document |
| document.createAttribute() | Creates an attribute node |
| document.createComment() | Creates a Comment node with the specified text |
| document.createDocumentFragment() | Creates an empty DocumentFragment node |
| document.createElement() | Creates an Element node |
| document.createTextNode() | Creates a Text node |
| document.doctype | Returns the Document Type Declaration associated with the document |
| document.documentElement | Returns the Document Element of the document (the,element) |
| document.documentMode | Returns the mode used by the browser to render the document |
| document.documentURI | Sets or returns the location of the document |
| document.domain | Returns the domain name of the server that loaded the document |
| document.domConfig | Obsolete. Returns the DOM configuration of the document |
| document.embeds | Returns a collection of all,elements the document |
| document.forms | Returns a collection of all,elements in the document |
| document.getElementById() | Returns the element that has the ID attribute with the specified value |
| document.getElementsByClassName() | Returns a NodeList containing all elements with the specified class name |
| document.getElementsByName() | Returns a NodeList containing all elements with a specified name |
| document.getElementsByTagName() | Returns a NodeList containing all elements with the specified tag name |
| document.hasFocus() | Returns a Boolean value indicating whether the document has focus |
| document.head | Returns the,element of the document |
| document.images | Returns a collection of all, <img> elements in the document |
| document.importNode() | Imports a node from another document |
| document.inputEncoding | Returns the encoding, character set, used for the document |
| document.lastModified | Returns the date and time the document was last modified |
| document.links | Returns a collection of all <a> and <area> elements in the document that have a href attribute |
| document.referrer | Returns the URL of the document that loaded the current document |
| document.removeEventListener() | Removes an event handler from the document (that has been attached with the addEventListener() method) |
| document.renameNode() | Renames the specified node |
| document.scripts | Returns a collection of,elements in the document |
| document.strictErrorChecking | Sets or returns whether error-checking is enforced or not |
| document.title | Sets or returns the title of the document |
| document.URL | Returns the full URL of the HTML document |
| document.write() | Writes HTML expressions or JavaScript code to a document |
| document.writeln() | Same as write(), but adds a newline character after each statement |