Difference between Window and Document Object in JavaScript

**WINDOW**

The window object represents the browser window and serves as the global object in client-side JavaScript. It encapsulates the entire browser window, including tabs, frames, and iframes. The window object provides access to various properties and methods related to the browser environment, such as opening new windows, resizing, scrolling, and interacting with the browser's history.

Commonly used Window properties

Syntax: window.property\_name

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| **Property** | **Description** |
| closed | returns a boolean value that specifies whether a window has been closed or not |
| document | specifies a document object in the window. |
| innerHeight | specifies the inner height of the window's content area. |
| innerWidth | specifies the inner width of the window's content area. |
| self | returns the reference of current active frame or window. |
| fullScreen | indicates whether the window is displayed on full screen or not. |

Commonly used Window methods

Syntax: window.method\_name

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| --- | --- |
| **Property** | **Description** |
| alert() | specifies a method that displays an alert box with a message an OK button. |
| focus() | specifies a method that sets the focus on current window. |
| prompt() | specifies a method that prompts for input. |
| setTimeout() | specifies a method that evaluates an expression after a specified number of milliseconds. |
| setInterval() | specifies a method that evaluates an expression at specified time intervals (in milliseconds) |
| open() | specifies a method that opens a new browser window |
| close() | specifies a method that closes the current window. |

**DOCUMENT**

The document object represents the current web page displayed in the browser window. It provides access to the HTML content of the page and allows to manipulate the structure, content, and styling using the Document Object Model (DOM). Document object enables accessing elements, modify their attributes and content, and respond to user interactions.

Commonly used Document properties

Syntax: document.property\_name

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| **Property** | **Description** |
| domain | It returns the domain name of the document server. |
| URL | It returns the complete URL of the document. |
| body | It returns the contents of the body element. |
| cookie | It returns the cookie of the current document. |
| lastModified | It returns the date and time of the current document that was last modified. |

Commonly used Document methods

Syntax: document.method\_name

|  |  |
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| **Property** | **Description** |
| createElement() | It is used to create HTML element . |
| getElementById() | It returns the object of the given ID. If no object with that id exists then it returns null. |
| getElementsByClassName() | It returns an object containing all the elements with the specified class names in the document as objects. |
| getElementsByTagName() | It returns an object containing all the elements with the specified tag names in the document as objects. |
| addEventListener() | It is used to attach an event handler to the specified element. |
| removeEventListener() | It removes the event handler from an element that has an attached event. |
| querySelector() | It returns the first element that matches a specified CSS selector(s) in the document. |
| querySelectorAll() | It returns a collection of an element’s child elements that matches a specified CSS selector(s) in the document |

| **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. |