Write a blog on the Difference between document and windows objects

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| **Document Object** | **Window Object** |
| **Representation:** The "document" object represents the HTML document loaded in the browser. | **Representation:** The "window" object represents the browser window or tab in which the HTML document is loaded. |
| **Content Manipulation:** It is primarily used for manipulating the content and structure of the HTML document, such as modifying elements, creating elements, or changing styles. | **Global Scope:** Variables and functions declared in the global scope become properties and methods of the "window" object, accessible globally. |
| **Hierarchy:** It is a part of the "window" object and can be accessed using **window.document** or simply **document**. | **Navigation:** It provides methods for controlling the navigation of the browser, such as changing the URL using **window.location**. |
| **Element Selection:** Methods like **getElementById**, **getElementsByClassName**, and **querySelector** are used to select and interact with HTML elements. | **Opening Windows:** The "window" object is used for actions related to opening new browser windows or tabs, as well as controlling their properties. |
| **Event Handling:** The "document" object is used for capturing and handling events within the HTML document, such as user interactions. | **Timers:** Methods like **setTimeout** and **setInterval** for executing code after a specified time interval are part of the "window" object. |
| **DOM Structure:** It reflects the structure of the HTML document, providing access to elements, attributes, and their relationships. | **Browser Information:** It provides information about the browser, such as dimensions, focus, and whether it is currently loading a page. |
| **HTML Content:** It allows you to access and modify the actual HTML content of the document. | **History Management:** The "window" object allows interaction with the browser's history, enabling navigation backward and forward. |
| **Form Access:** It provides methods to access and manipulate HTML forms, such as accessing form elements and handling form submissions. | **Alerts and Prompts:** Methods like **alert()** and **prompt()** are part of the "window" object for displaying dialog boxes. |
| **CSS Styles:** The "document" object allows you to dynamically change CSS styles applied to HTML elements. | **Window Events:** It captures events related to the browser window, such as resizing or closing. |
| **Traversal:** You can traverse and navigate through the DOM tree using the "document" object to move between parent and child nodes. | **Storage:** The "window" object includes methods for local and session storage, allowing data to be stored and retrieved persistently within the browser session. |