

# Difference Between Document Object and Window Object

## Document Object

Represents the Document:

- The document object represents the entire HTML document in a web page.

DOM Manipulation:

- It provides methods and properties to manipulate the **Document Object Model (DOM)**, allowing you to interact with and modify the structure and content of a webpage.

Access Elements:

- You can use the document object to access and modify HTML elements. Common methods include **getElementById**, **getElementsByClassName**, and **getElementsByName**.

Event Handling:

- It allows you to handle events on the document, such as user interactions like clicks and key presses. Event listeners can be added using methods like **addEventListener**.

Document Properties:

- Provides properties for document-level information, such as title, URL, body, etc.

## Window Object

Global Object:

- The window object is the global object in a browser environment. It represents the browser window or tab.

Global Scope:

- Variables and functions declared in the global scope become properties and methods of the window object.

### Window Properties:

- Contains properties like **innerWidth**, **innerHeight** to get the dimensions of the browser window, and **location** to get information about the URL.

### Window Methods:

- Provides methods like **alert**, **confirm**, and **prompt** for displaying dialog boxes. Also, methods for navigating the browser, such as **open**, **close**, and **setTimeout**.

### Access to document:

- The window object has a property called **document**, which refers to the document object. This is how you access the document object globally.

### Global Events:

- Handles global events like resizing of the window (resize event) or when the page finishes loading (load event).