JAVASCRIPT WEBAPI'S



Web Speech API

```
const textToSpeak = "Hello There";
const utterance =
   new SpeechSynthesisUtterance(textToSpeak);
window.speechSynthesis.speak(utterance);
```



Web Storage API

(localStorage)

```
// Store data
localStorage.setItem('key', 'value');
// Retrieve data
const storedValue = localStorage.getItem('key');
// Remove data
localStorage.removeItem('key');
```



Persistent storage in browser memory

Web Storage API

(sessionStorage)

```
// Store data
sessionStorage.setItem('key', 'value');
// Retrieve data
const storedValue = sessionStorage.getItem('key');
// Remove data
sessionStorage.removeItem('key');
```



Session-specific storage

Web Fetch API

```
fetch('http://example.com/movies.json')
   .then(response => response.json())
   .then(data => console.log(data))
   .catch(error => console.error('error:', error));
```



Fetch API to make a GET call

Web Geolocation API



Get user's location.

Web Canvas API

```
const canvas = document.createElement('canvas');
canvas.width = 200;
canvas.height = 100;
document.body.appendChild(canvas);
const ctx = canvas.getContext('2d');
ctx.fillStyle = 'blue';
ctx.fillRect(10, 10, 180, 80);
```



To draw a filled rectangle in blue

Web Audio API



An oscillator and play a tone

Web Sockets API



Real-time, bidirectional communication protocol.

web IndexedDB API

```
// Open (or create) the database
const dbName = "InstagramPostsDB";
const dbVersion = 1;

const request = indexedDB.open(dbName, dbVersion);
//handles errors that may occur during the database opening process.
request.onerror(() => {});
//specifies the actions to be taken when the database structure is being upgraded.
request.onupgradeneeded(() => {});
//defines the actions to be taken upon successful opening of the database.
request.onsuccess(() => {});
```



Structured client-side data storage.

web File API

```
<input type="file" id="imageInput" accept="image/*">
<button onclick="uploadPost()">Upload Post</button>
<script>
  function uploadPost() {
    const file = document.getElementById('imageInput').files[0];
    console.log('Selected file:', file);
  }
</script>
```



Manipulate files, access metadata.

web Notification API

```
Notification.requestPermission()
   .then( permission => {
      new Notification('Hello, World!');
   });
```



Display system notifications.

web Workers API

```
const worker = new Worker('worker.js');
worker.postMessage('Hello from main script!');
```



Execute background scripts.

web Intersection Observer API

```
const observer = new IntersectionObserver(entries =>
   entries.forEach(
     entry => entry.isIntersecting &&
     console.log('Element is in the viewport!')
     )
   );
observer.observe(document.getElementById('yourElementId'));
```



Efficiently observes element visibility changes.

web Mutation Observer API

```
const observer = new MutationObserver(mutations =>
    mutations.forEach(mutation =>
        console.log('DOM change detected:', mutation)
    )
   );
const targetNode = document.getElementById('yourElementId');
const config = { attributes: true, childList: true, subtree: true };
observer.observe(targetNode, config); // Start observing DOM changes.
```



Observes DOM changes asynchronously.

web Pointer Lock API

```
const element = document.getElementById('yourElementId');
element.requestPointerLock();
```



Captures mouse movements precisely in-browser.

web Battery Status API

```
navigator.getBattery().then(battery => {
  console.log('Battery Level:', battery.level * 100 + '%');
  console.log('Charging:', battery.charging ? 'Yes' : 'No');
});
```



Monitors device battery information asynchronously.

web Gamepad API

```
window.addEventListener("gamepadconnected", (event) =>
    console.log("Gamepad connected:", event.gamepad.id)
);
window.addEventListener("gamepaddisconnected", (event) =>
    console.log("Gamepad disconnected:", event.gamepad.id)
);
```



web **DeviceOrientation**and **Motion API**

```
window.addEventListener("deviceorientation", (event) => {
  console.log("Device Orientation:", event.alpha,
        event.beta, event.gamma);
});

window.addEventListener("devicemotion", (event) => {
  console.log("Device Motion:", event.acceleration.x,
        event.acceleration.y, event.acceleration.z);
});
```



Tracks device orientation and motion data.

web Push API

```
// Check for Push API support
if ('PushManager' in window) {
   // Request notification permission
   Notification.requestPermission().then(permission => {
     if (permission === 'granted') {
        // Subscription logic goes here
     }
   });
}
```



web Payment Request API



Facilitates streamlined online payment processing in browsers.

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