Cheatsheet: Arrays and Objects in JavaScript

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JavaScript Array and Objects	Description	Code Example
Array declaration	Arrays in JavaScript are ordered, meaning that the elements are stored in a specific sequence.	const fruits = ["apple", "banana", "cherry"];
Array Indexing	Arrays are zero-indexed, meaning the first element is at index 0, the second at index 1, and so on.	<pre>const fruits = ["apple", "banana", "cherry"]; const firstFruit = fruits[0]; // "apple" const secondFruit = fruits[1]; // "banana"</pre>
Array Length	The length property is used to determine the number of items present in an array.	<pre>const fruits = ["apple", "banana", "cherry"]; const numFruits = fruits.length; // 3 console.log(numFruits);</pre>
Array Mutability	Arrays in JavaScript are mutable, meaning you can change, add, or remove elements after the array is created.	<pre>const fruits = ["apple", "banana", "cherry"]; fruits[2] = "strawberry"; // Modifying an element fruits[3] = "Kiwi"; // Adding an element</pre>
push method	Adds one or more elements to the end of an array.	<pre>const fruits = ["apple", "banana"]; fruits.push("orange", "strawberry"); console.log(fruits)</pre>
pop method	Removes the last element from an array and returns it.	<pre>const fruits = ["apple", "banana", "orange"]; const removedFruit = fruits.pop(); console.log('Fruits are',fruits) console.log('Removed fruits are',removedFruit)</pre>
shift methods	Removes the first element from an array and returns it.	Removes the first element from an array and returns it.

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unshift method	Adds one or more elements to the beginning of an array and returns it.	<pre>const fruits = ["banana", "orange"]; fruits.unshift("apple", "strawberry"); console.log(fruits);</pre>
splice method	Changes the contents of an array by removing, replacing, or adding elements at a specified position.	<pre>const fruits = ["apple", "banana", "cherry"]; fruits.splice(1, 1, "grape"); // Replace the second element with "grape" console.log(fruits)</pre>
concat method	The concat method in JavaScript arrays combines arrays in sequence, creating a new array containing the elements of the original arrays in the order they were concatenated.	<pre>const fruits = ["apple", "banana"]; const additionalFruits = ["orange", "strawberry"]; const combinedFruits = fruits.concat(additionalFruits); console.log('combinedFruits are', combinedFruits)</pre>
slice method	Returns a shallow copy of a portion of an array into a new array.	<pre>const fruits = ["apple", "banana", "cherry", "orange"]; const slicedFruits = fruits.slice(1, 3); // Creates a new array with elements from index 1 console.log('slicedFruits are',slicedFruits)</pre>
indexOf method	This method is used to find the index of a specified element within an array. It returns the index of the first occurrence of the element in the array, or -1 if the element is not found.	<pre>const fruits = ["apple", "banana", "cherry", "banana"]; const index = fruits.indexOf("banana"); // Returns 1 (the first occurrence of "banana") console.log('Index of banana is', index)</pre>
reverse method	The reverse method reverses the order of elements in an array, effectively reversing the array in place.	<pre>const fruits = ["apple", "banana", "cherry"]; fruits.reverse(); // Reverses the order of the array console.log(fruits)</pre>
sort method	The sort method is used to sort the elements of an array in place and returns the sorted array. By default, it sorts	<pre>const numbers = [4, 2, 8, 6, 1,10]; numbers.sort(); // Sorts as strings: [1,10, 2, 4, 6, 8] numbers.sort((a, b) => a - b); // Sorts as numbers: [1, 2, 4, 6, 8] console.log(numbers)</pre>

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elements as strings
                              and in lexicographic
                              order.
                                                                   const fruits = ['apple', 'banana', 'cherry', 'date'];
for (let i = 0; i < fruits.length; i++) {
    console.log(fruits[i]);</pre>
                               A for loop can be
                              used to iterate
                              through the elements
Array iteration
                              of an array to access
                              and manipulate each
                              item in the array.
                                                                   function sendWelcomeEmail(email) {
                                                                         console.log(`Welcome email sent to ${email}`);
                                                                   users.forEach((user) => {
    sendWelcomeEmail(user.email);
                              The forEach method
                              iterates through an
forEach
                              array and applies a
                              provided function to
                              each element.
                                                                   const products = [
                                                                         { name: 'Laptop', price: 1000 },
{ name: 'Smartphone', price: 500 },
{ name: 'Tablet', price: 300 },
                                                                   products.map((product) => {
                              The map method
                                                                         console.log(`The price of ${product.name} is $${product.price}`);
                              creates a new array
                              by applying a
map method
                              provided function to
                              each element in the
                              original array.
                                                                   const products = [
                                                                         { name: 'Laptop', price: 1000 },
{ name: 'Smartphone', price: 500 },
{ name: 'Tablet', price: 300 },
{ name: 'Monitor', price: 250 },
{ name: 'Keyboard', price: 50 },
                                                                   function filterProductsByPriceRange(products, minPrice, maxPrice) {
                                                                         return products.filter((product) => product.price >= minPrice && product.price <= maxF
                               The filter method
                                                                   const minPrice = 100; // Minimum price threshold
const maxPrice = 500; // Maximum price threshold
const filteredProducts = filterProductsByPriceRange(products, minPrice, maxPrice);
filteredProducts.forEach((product) => {
    console.log(`${product.name} is of $${product.price}`);
}
                              creates a new array
                              containing elements
                              that pass a specified
filter method
                              condition. It's useful
                              for extracting
                               specific data from an
                              array.
                              The reduce method
                                                                   const orderPrices = [50, 30, 25, 40, 15];
reduce method
                                                                   const totalOrderValue = orderPrices.reduce((total, price) => total + price, 0);
console.log('The total value of order is ', totalOrderValue)
                              allows you to reduce
                              an array to a single
                               value by applying a
                              function to each
                              element. It's
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excellent for
                            aggregating data.
                                                              const employees = [
                                                                   { id: 1, name: 'Alice', Eid: 'EMP001', 'Contact details': 'alice@example.com', Role: '
{ id: 2, name: 'Bob', Eid: 'EMP002', 'Contact details': 'bob@example.com', Role: 'Engi
{ id: 3, name: 'Charlie', Eid: 'EMP003', 'Contact details': 'charlie@example.com', Rol
                            The find method
                                                              const employee = employees.find((e) => e.id === 2);
console.log(`Details of the employee\nname: ${employee.name}\nEid: ${employee.Eid}\nContact
                            returns the first
                            element in an array
                            that satisfies a
find method
                            specified condition.
                            It's useful for
                            searching for specific
                                                              const grid = [
                                                                   [1, 2, 3],
[4, 5, 6],
[7, 8, 9]
                            A 2D array can be
                            created by
2D Array
                            initializing an array
                            of arrays.
                                                              for (let i = 0; i < grid.length; i++) {
    for (let j = 0; j < grid[i].length; j++) {
        console.log(`Element at (${i}, ${j}): ${grid[i][j]}`);</pre>
                            To access a specific
                            element in a 2D
Access 2D Array
                            array, you need to
                            provide both row and
                            column indices.
2D array to book
                                                              <!DOCTYPE html>
                            You can create a
                                                              <html>
                            booking system
seat
                                                              <head>
                            using 2D array.
                                                                   <style>
                                                                        /* CSS for styling the seats */
                                                                        .seating-chart {
                                                                              display: grid;
                                                                              grid-template-columns: repeat(3, 70px);
gap: 10px;
                                                                              justify-content: center;
                                                                        .seat {
                                                                              width: 70px;
                                                                              height: 40px;
text-align: center;
                                                                              line-height: 40px;
                                                                             border: 1px solid #ccc;
cursor: pointer;
                                                                         .booked {
                                                                              background-color: #FF0000; /* Red */
                                                                              cursor: not-allowed;
                                                                              color: white; /* Set the text color to white for booked seats */
                                                                        .available {
                                                                             background-color: #7FFF00; /* Light Green */
                                                                         .select-button {
                                                                             width: 100%;
                                                                             padding: 10px;
margin: 10px;
                                                                              background-color: #007BFF; /* Blue */
                                                                              color: white;
border: none;
                                                                              cursor: pointer;
                                                                   </style>
                                                              </head>
                                                             </
```

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<div class="seat available" onclick="bookSeat(1, 0)">B1</div>
<div class="seat available" onclick="bookSeat(1, 1)">B2</div>
<div class="seat available" onclick="bookSeat(1, 2)">B3</div>
<div class="seat available" onclick="bookSeat(2, 0)">C1</div>
<div class="seat available" onclick="bookSeat(2, 1)">C2</div>
<div class="seat available" onclick="bookSeat(2, 2)">C3</div>
</or>

                                                                             </div>
                                                                             <button class="select-button" onclick="bookRandomSeat()">Select Random Seat</button>
                                                                             <script>
   // JavaScript for booking seats
                                                                                   // Javascript for book.

const theaterSeats = [

['X', '0', 'X'],

['0', 'X', '0'],

['X', '0', 'X']
                                                                                   function bookSeat(row, col) {
   if (theaterSeats[row][col] === '0') {
      theaterSeats[row][col] = 'X';
      updateSeatStatus(row, col, 'booked');
      alert(`Seat ${String.fromCharCode(65 + row)}${col + 1} is booked.`);
}
                                                                                         } else {
                                                                                               alert(`Seat ${String.fromCharCode(65 + row)}${col + 1} is already taken.`)
                                                                                         }
                                                                                   function updateSeatStatus(row, col, status) {
                                                                                         const seats = document.getElementsByClassName('seat');
                                                                                         const index = row * 3 + col;
seats[index].classList.remove('available', 'booked');
                                                                                         seats[index].classList.add(status);
                                                                                   function bookRandomSeat() {
                                                                                         availableSeats.push({ row, col });
                                                                                                     }
                                                                                               }
                                                                                         if (availableSeats.length > 0) {
                                                                                               const f andomIndex = Math.floor(Math.random() * availableSeats.length);
const { row, col } = availableSeats[randomIndex];
                                                                                               bookSeat(row, col);
                                                                                         } else {
                                                                                               alert('All seats are already booked.');
                                                                             </script>
                                                                       </body>
                                                                       </html>
                                                                          constructor(firstName, lastName) {
  this.firstName = firstName;
                                                                             this.lastName = lastName;
                                                                          getFullName() {
                                                                             return `${this.firstName} ${this.lastName}`;
                                                                          }
                                Classes are a way to
                                create blueprint or
                                                                       // Creating an instance of the Person class
const person1 = new Person("John", "Doe");
console.log(person1.getFullName()); // Output: "John Doe"
                                templates for objects.
                                They define the
Classes
                                structure and
                                behavior of objects
                                of that class.
                                                                       class Car {
Constructor Objects
                                Objects are instances
                                                                          constructor(make, model, year) {
                                of classes or can be
                                                                             this.make = make;
this.model = model;
                                created as standalone
                                objects without a
                                                                             this.year = year;
                                class. They can have
                                                                          startEngine() {
                                properties and
                                                                             console.log(`The ${this.make} ${this.model}'s engine is running.`);
                                methods.
                                                                          }
                                                                      const myCar = new Car("Toyota", "Camry", 2022);
myCar.startEngine(); // Output: "The Toyota Camry's engine is running."
```

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const person = {
  firstName: "Alice",
  lastName: "Johnson",
                                                                                getFullName: function() {
  return `${this.firstName} ${this.lastName}`;
                                                                             console.log(person.getFullName()); // Output: "Alice Johnson"
                                   Object literals are a
                                   way to create ad-hoc
Object Literals
                                   objects without
                                   defining a class.
                                                                             function Car(make, model) {
                                                                                this.make = make;
this.model = model;
                                                                            const car1 = new Car("Toyota", "Camry");
const car2 = new Car("Honda", "Civic");
console.log('Car1 details are', car1);
console.log('Car2 details are', car2);
                                   A function
                                   constructor is a
                                   regular JavaScript
                                   function that is used
Function
                                  to create and
Constructor
                                   initialize objects. It's
                                   a convention to name
                                   function constructors
                                   with an initial capital
                                  letter.
                                                                             const person = {
  firstName: "John",
  lastName: "Doe",
                                                                                age: 30
                                                                            console.log(person.firstName); // Output: "John"
console.log(person.lastName); // Output: "Doe"
console.log(person.age); // Output: 30
                                  Dot notation is a way
                                   to access object
. (Dot) Notation
                                   properties.
                                                                             const person = {
  "first name": "John",
  "last name": "Doe",
                                                                                age: 30
                                                                             console.log(person["first name"]); // Output: "John"
console.log(person["last name"]); // Output: "Doe"
console.log(person["age"]); // Output: 30
                                   Bracket notation is a
                                   way to access object
                                   properties, especially
Bracket Notation
                                   useful when property
                                   names contain
                                   special characters or
                                   spaces.
                                                                             const students = [
                                                                                { name: "Alice", age: 25 },
{ name: "Bob", age: 22 },
{ name: "Charlie", age: 28 }
                                   An array of objects
                                   in JavaScript is a
                                   collection of multiple
Arrays of Objects
                                   objects stored within
                                   a single array
                                  container.
```

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const students = [
   { name: "Alice", age: 25 },
   { name: "Bob", age: 22 },
   { name: "Charlie", age: 28 }
                                                                               console.log(students[0].name); // Output: "Alice"
console.log(students[2].age); // Output: 28
                                     You can access
                                    elements within an
Access Array of
                                    array of objects using
Objects
                                    the array index and
                                    using dot notation.
                                                                               const students = [
   { name: "Alice", age: 25 },
   { name: "Bob", age: 22 },
   { name: "Charlie", age: 28 }
                                                                                for (let i = 0; i < students.length; <math>i++) {
                                                                                   console.log(students[i].name);
                                    Iteration of objects
Iterating Through an
                                    through arrays
Array of Objects
                                    include for loops and
                                    array methods.
                                                                                //Adding Elements
                                                                               //Adding Etamerics
const students = [
    { name: "Alice", age: 25 },
    { name: "Bob", age: 22 },
    { name: "Charlie", age: 28 }
                                                                                1:
                                                                               students.push({ name: "David", age: 20 }); // Add a new student
console.log('After using push method ');
console.log(students);
                                    You can add new
                                    objects to the array
Adding Objects
                                    using the push
                                    method.
                                                                                //Removing Elements
                                                                               //kemoving tements
const students = [
    { name: "Alice", age: 25 },
    { name: "Bob", age: 22 },
    { name: "Charlie", age: 28 }
                                                                                const removedStudent = students.pop();
                                                                                                                                                            // Remove the last student
                                                                                console.log('After using pop method ');
                                                                                console.log(students);
                                    You can remove
Removing Objects
                                    objects using the pop
                                    method.
                                                                                const students = [
                                                                                   { name: "Alice", age: 25 }, 
{ name: "Bob", age: 22 }, 
{ name: "Charlie", age: 28 }
                                                                                const adults = students.filter(student => student.age >= 23);  // Filter students who are
const studentNames = students.map(student => student.name);  // Create an array of studer
console.log('Using Filter Method');
                                                                                console.log(adults);
console.log('Using Map Method'
console.log(studentNames);
                                     You can filter and
Filtering and
                                    transform arrays of
Mapping Arrays of
                                    objects using array
                                    methods like filter
Objects
                                    and map.
```

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```
const employees = [
   { name: "Alice", age: 35 },
   { name: "Bob", age: 32 },
   { name: "Charlie", age: 38 }
                                                                                                  const employee = employees.map((employee) => {
                                                                                                  return employee});
                                             You can traverse and
                                                                                                  console.log(employee);
Mapping Arrays of
                                             transform arrays of
Objects
                                             objects using array
                                             method like map.
                                                                                                 const employees = [
   { name: "Alice", age: 35 },
   { name: "Bob", age: 32 },
   { name: "Charlie", age: 38 }
                                                                                                  const employee = employees.find(employee => employee.name === "Charlie");
console.log(employee.age);
                                             You can search for
                                             objects within an
Searching for
                                             array of objects using
Objects
                                             array methods like
                                             find.
                                                                                                  let arrayOfObjects = [
                                                                                                          name: 'John',
                                                                                                          age: 25, hobbies: ['Reading', 'Traveling'],
                                                                                                          address: {
   street: '123 Main St',
   city: 'New York',
   zip: '10001'
                                                                                                          name: 'Alice',
                                                                                                          age: 30,

skills: ['JavaScript', 'React', 'Node.js'],

projects: [

{ title: 'Project A', completed: true },

{ title: 'Project B', completed: false }
                                             An array of objects is
                                                                                                          title: 'Special Object',
data: [1, 2, 3],
metadata: { key: 'value' }
                                             used to store and
                                             organize data in a
Nested Array of
                                             way that allows you
objects
                                             to access and
                                             manipulate the
                                                                                                           // An object with no specific properties
                                             information easily.
                                                                                                          anotherObject: true,
nestedArrays: [
  [1, 2, 3],
  ['a', 'b', 'c']
                                                                                                           additionalProperty: 'Extra'
                                                                                                  // Accessing properties of the first object
Access Nested Array-
                                             Using . dot operator
                                                                                                 // Accessing properties of the first object
console.log(arrayOfObjects[0].name); // Output: John
console.log(arrayOfObjects[0].hobbies[0]); // Output: Reading
// Accessing properties of the second object
console.log(arrayOfObjects[1].skills[2]); // Output: Node.js
console.log(arrayOfObjects[1].projects[0].title); // Output: Project A
// Accessing properties of the third object
console.log(arrayOfObjects[2].metadata.key); // Output: value
// Accessing properties of the fourth object
console.log(arrayOfObjects[3]); // Output: {}
// Accessing properties of the fifth object
console.log(arrayOfObjects[4].anotherObject); // Output: true
console.log(arrayOfObjects[4].additionalProperty); // Output: Extra
Code Above
                                             elements of nested
                                             array can be accesed,
                                             which has been
                                             described in just
                                             above code.
```

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Strings	Strings are data type in JavaScript used to represent text. They can contain letters, numbers, symbols, and whitespace characters.	const message = "This is a message.";	
Strings	Strings are data type in JavaScript used to represent text. They can contain letters, numbers, symbols, and whitespace characters.	const message = "This is a message.";	
template literals	Template literals in JavaScript are strings allowing embedded expressions, denoted by backticks (), enabling easy multiline strings and interpolation of variables using \${}`.	<pre>const fullName = `\${firstName} \${lastName}`;</pre>	
String Concatenation	The concatenation operator + in JavaScript is used to combine (join) two or more strings together to create a single, longer string.	<pre>const firstName='Peter'; const greeting = 'Hello, ' + firstName + '!'; console.log(greeting);</pre>	
String Length	To determine the length of a string, length property can be used.	<pre>const message1 = "This is a message."; const Stringlength1 = message1.length; const message2 = "Thisisamessage"; const Stringlength2 = message2.length; console.log(Stringlength1); console.log(Stringlength2)</pre>	
Accessing Characters	Individual characters within a string can be accessed using bracket notation and a zero-based index.	<pre>const text = "JavaScript"; const firstCharacter = text[0];</pre>	
toLowerCase and toUpperCase	JavaScript provides methods to change the case of a string into lowercase and uppercase.	<pre>const text = "Hello, World!"; const lowercaseText = text.toLowerCase(); // "hello, world!" const uppercaseText = text.toUpperCase(); // "HELLO, WORLD!" console.log('The lowercase for text is ',lowercaseText); console.log('The uppercase for text is ',uppercaseText);</pre>	
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indexOf() method	indexOf returns the index of the first occurrence of a specified substring within a string. It returns -1 if the substring is not found.	<pre>const sentence = "The quick brown fox jumps over the lazy dog."; const indexOfFox = sentence.indexOf("fox"); // 16 console.log(indexOfFox);</pre>
includes() method	includes returns a boolean indicating whether a specified substring is found within a string, returning true if found and false if not.	<pre>const sentence = "The quick brown fox jumps over the lazy dog."; const hasFox = sentence.includes("fox"); // true console.log(hasFox);</pre>
substring() methods	substring extracts characters from a string between two specified indices. It means extracting a substring from the text starting at index 0 and ending at index 5 (excluding index 5).	<pre>const text = "Hello, World!"; const subText1 = text.substring(0, 5); // "Hello" console.log(subText1);</pre>
slice() method	slice extracts a section of a string and returns it as a new string, specifying the start and end positions. It means extracting a substring from the text starting at index 7 until the end of the string.	<pre>const text = "Hello, World!"; const subText2 = text.slice(7);</pre>
substr() method	substr extracts a specified number of characters from a string, starting at a specified index.It means extracting a substring from the text starting at the 7th index and including 5 characters.	<pre>const text = "Hello, World!"; const subText3 = text.substr(7, 5); // "World" console.log(subText3);</pre>
Replacing Substrings	The replace method allows you to replace substrings with new values.	<pre>const text = "Hello, World!"; const updatedText = text.replace("World", "Universe"); console.log(updatedText);</pre>
Splitting Strings	You can split a string into an array of substrings using the split method.	<pre>const csvData = "Alice,25,New York;Bob,30,Los Angeles;Charlie,28,Chicago"; const peopleArray = csvData.split(';'); console.log(peopleArray);</pre>

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trim()method	The trim method removes leading and trailing whitespace from a string.	<pre>const text = " Trim me! "; console.log(text.length); const trimmedText = text.trim(); console.log(trimmedText.length);</pre>
round(), ceil() and floor() Math Methods	round() rounds a number to the nearest integer. ceil() rounds a number up to the nearest integer. floor() rounds a number down to the nearest integer.	<pre>const number = 3.6; const rounded = Math.round(number); // Round to nearest integer: 4 const ceil = Math.ceil(number); // Round up: 4 const floor = Math.floor(number); // Round down: 3</pre>
pow(), sqrt() and log() Math Methods	pow() raises a number to a specified exponent. sqrt() returns the square root of a number. log() returns the natural logarithm (base e) of a number.	<pre>const base = 2; const exponent = 3; const power = Math.pow(base, exponent); // Power: 8 const squareRoot = Math.sqrt(base); // Square Root: 1.41421356237 const naturalLog = Math.log(base); // Natural Logarithm: 0.69314718056</pre>
random() Method	The random() method in JavaScript generates a pseudo- random floating- point number between 0 (inclusive) and n (exclusive).	html <html> <head> <title>Random Quote Generator</hl> <hl> <head> <hody> <hi>>Ani="quoteDisplay">

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 **Const quotes = ["Life is what happens when you're busy making other plans. — John Lennon", "The only way to do great work is to love what you do. — Steve Jobs", "In three words, I can sum up everything I've learned about life: it goes on. — Robe "Don't count the days, make the days count. — Muhammad Ali", "The only thing we have to fear is fear itself. — Franklin D. Roosevelt", "To be yourself in a world that is constantly trying to make you something else is t];
 function generateRandomQuote() { const randomIndex = Math.floor(Math.random() * quotes.length); // Generate a random const randomQuote = quotes[randomIndex]; // Get a random quote document.getElementById("quoteDisplay").textContent = randomQuote; } </br/> </br/>
 <br/</td></tr></tbody></table></title></head></html>

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const currentDate = new Date(); // Current date and time
const specificDate = new Date(2023, 0, 15); // January 15, 2023
const fromMilliseconds = new Date(1672569600000); // From milliseconds since the epoch
                             Date objects are used
Date Object
                             to represent specific
                             moments in time.
                                                                const date = new Date();
const year = date.getFullYear();
const month = date.getMonth();
                                                                                                                    // Current year
// Current month (0-11)
                                                                const day = date.getDate();
                                                                                                                  // Day of the month (1-31)
                                                                                                                  // Hours (0-23)
// Minutes (0-59)
// Seconds (0-59)
                                                                const hours = date.getHours();
const minutes = date.getMinutes();
                                                                const seconds = date.getSeconds();
                             Date objects provide
                             access to individual
Retrieving Date
                             components of a
                             date, such as year,
                             month, day, and hour.
                             toLocaleDateString()
                             to converts a date to
                                                                const date = new Date();
                                                                const formattedDate = date.toLocaleDateString(); // "11/15/2023"
const formattedTime = date.toLocaleTimeString(); // "1:30:45 PM"
                             a string representing
                             the date portion
                             according to the
                             locale's formatting
toLocaleDateString()
                             conventions.
and
                             toLocaleTimeString()
toLocaleTimeString()
                             to converts a date to
                             a string representing
                             the time portion
                             according to the
                             locale's formatting
                             conventions
                                                                const date = new Date();
                                                                date.setFullYear(2024); // Set the year to 2024
date.setDate(date.getDate() + 7); // Add 7 days
const futureDate = new Date();
                             Date objects allow
                                                                futureDate.setDate(futureDate.getDate() + 30); // Date 30 days from now
                             for various date
                             arithmetic
Date Arithmetic
                             operations, including
                             adding and
                             subtracting time
                             intervals.
                                                                setTimeout(function() {
                                                                   console.log("This message appears after a delay.");
                                                                }, 2000); // Displayed after a 2-second delay
                             The setTimeout
                             function schedules
                             the execution of a
setTimeout() Method
                             function after a
                             specified delay in
                             milliseconds:
                                                                let count = 0;
                                                                const intervalId = setInterval(function() {
  console.log("Count: " + count);
                                                                   count++;
                                                                   if (count > 5) {
                                                                     clearInterval(intervalId); // Stop after 6 iterations
                                                                }, 1000); // Displayed every second.
                             setInterval repeatedly
                             executes a function
setInterval
                             at a specified
                             interval.
```

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