

JavaScript Cheat Sheet

Updated on 22 January 2024 by [Huzaif Sayyed](#)

JavaScript is a versatile and widely-used programming language that plays a crucial role in modern web development. Whether you're a seasoned developer or just starting, having a handy javascript cheatsheet can be a valuable resource to quickly reference key concepts and syntax. In this blog post, we'll provide you with a comprehensive JS cheat sheet to help you in your coding journey.

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Hello World! JavaScript Program

<pre>console.log('Hello World');</pre>
This will print Hello World in Console

Variables and Data Types

var, let, and const declarations is used to declaring variables.
Primitive data types: string, number, boolean
Complex data types: object, array

Variable Declarations

<pre>var variable1; let variable2 = "Hello"; const constantVariable = 42;</pre>

Data Types

<pre>let str = "Hello, World!"; let num = 42; let bool = true; let arr = [1, 2, 3]; let obj = { key: "value" };</pre>

Operators

<pre>let x = 5; let y = 10;</pre>

Arithmetic Operators

<pre>let sum = x + y; let difference = x - y; let product = x * y; let quotient = x / y; let remainder = x % y;</pre>

Comparison Operators

<pre>console.log(x === y); // false console.log(x < y); // true</pre>
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Logical Operators

<pre>let isTrue = true; let isFalse = false; console.log(isTrue && isFalse); // false console.log(isTrue isFalse); // true console.log(!isTrue); // false</pre>
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Control Flow

If-Else Statement

<pre>let day = "Monday"; if (day === "Monday") { console.log("It's the start of the week!"); } else if (day === "Friday") { console.log("Weekend is almost here!"); } else { console.log("It's a regular day."); }</pre>

Switch Statement

<pre>let day = "Monday"; switch (day) { case "Monday": console.log("It's the start of the week!"); break; case "Friday": console.log("Weekend is almost here!"); break; default: console.log("It's a regular day."); }</pre>

Loops

For Loop

<pre>for (let i = 0; i < 5; i++) { console.log(i); }</pre>

While Loop

<pre>let count = 0; while (count < 5) { console.log(count); count++; }</pre>

Do-While Loop

<pre>let num = 0; do { console.log(num); num++; } while (num < 5);</pre>

For...In Loop (Objects)

<pre>const person = { name: "John", age: 30 }; for (let key in person) { console.log(key, person[key]); }</pre>

Functions

Function Declaration

<pre>function greet(name) { console.log(`Hello, \${name}!`); }</pre>
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Arrow Function

<pre>const add = (a, b) => a + b;</pre>
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Function with Parameters and Return Value

<pre>function multiply(x, y) { return x * y; }</pre>
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Arrays and Objects

Arrays

<pre>const colors = ["red", "green", "blue"]; colors.push("yellow"); colors.pop(); colors.shift(); colors.unshift("purple"); const slicedColors = colors.slice(1, 3); colors.splice(1, 2);</pre>
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Objects

<pre>const person = { name: "Alice", age: 25, sayHello: function () { console.log(`Hello, my name is \${this.name}`); }, }; console.log(person.name); // "Alice" person.sayHello(); // "Hello, my name is Alice"</pre>

Error Handling

<pre>try { // Code that might throw an error throw new Error("An error occurred"); } catch (error) { // Handle the error console.error(error.message); } finally { // Code that will always run, whether there's an error or not console.log("Finally block executed"); }</pre>

Asynchronous JavaScript

setTimeout

<pre>setTimeout(() => { console.log("Delayed message"); }, 1000);</pre>
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setInterval

<pre>setInterval(() => { console.log("Repeated message"); }, 2000);</pre>
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Promises

<pre>const fetchData = () => { return new Promise((resolve, reject) => { // Simulate asynchronous task setTimeout(() => { const data = "Data fetched successfully"; resolve(data); // Uncomment the next line to simulate an error // reject(new Error("Failed to fetch data")); }, 1500); }); }; fetchData() .then((data) => console.log(data)) .catch((error) => console.error(error)) .finally(() => console.log("Promise settled"));</pre>
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Async/Await

<pre>const fetchDataAsync = async () => { try { const data = await fetchData(); console.log(data); } catch (error) { console.error(error); } finally { console.log("Async/Await function completed"); } }; fetchDataAsync();</pre>
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Template Literals

<pre>const name = "John"; const age = 25; console.log(`My name is \${name} and I am \${age} years old.`);</pre>

Destructuring

Destructuring Arrays

<pre>const numbers = [1, 2, 3]; const [first, second, third] = numbers; console.log(first, second, third);</pre>
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Destructuring Objects

<pre>const person = { firstName: "Alice", lastName: "Doe" }; const { firstName, lastName } = person; console.log(firstName, lastName);</pre>
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Spread and Rest Operators

Spread Operator (Arrays)

<pre>const arr1 = [1, 2, 3]; const arr2 = [...arr1, 4, 5]; console.log(arr2);</pre>

Spread Operator (Objects)

<pre>const obj1 = { a: 1, b: 2 }; const obj2 = { ...obj1, c: 3, d: 4 }; console.log(obj2);</pre>
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Rest Parameter

<pre>const sum = (...numbers) => numbers.reduce((acc, num) => acc + num, 0); console.log(sum(1, 2, 3, 4, 5));</pre>

ES6 Classes

<pre>class Animal { constructor(name, sound) { this.name = name; this.sound = sound; } makeSound() { console.log(`\${this.name} says \${this.sound}`); } } const cat = new Animal("Cat", "Meow"); cat.makeSound();</pre>
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Promises and Fetch API

Fetch API

<pre>fetch("https://jsonplaceholder.typicode.com/posts/1") .then(response => response.json()) .then(data => console.log(data)) .catch(error => console.error(error));</pre>
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Promise.all

<pre>const promise1 = Promise.resolve("Hello"); const promise2 = new Promise((resolve) => setTimeout(() => resolve(), 1000)); Promise.all([promise1, promise2]) .then(values => console.log(values));</pre>
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Local Storage

Local Storage

<pre>localStorage.setItem("username", "John"); const storedUsername = localStorage.getItem("username"); console.log(storedUsername);</pre>
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Session Storage

<pre>sessionStorage.setItem("token", "abc123"); const storedToken = sessionStorage.getItem("token"); console.log(storedToken);</pre>
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Regular Expressions

<pre>// Regular Expressions const regex = /\b\d{3}-\d{2}-\d{4}\b/; const ssn = "123-45-6789"; console.log(regex.test(ssn)); // true</pre>
