

Exploring JavaScript String and Array Methods

In this presentation, we will dive into the power and versatility of JavaScript string and array methods. Discover how to boost your coding proficiency and streamline your programming tasks.



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String Methods: Building and Manipulating Text

.length

Get the length of a string.

.concat()

Merge two or more strings into one.

.slice()

Cut out a part of a string and return the remaining part.

.charAt()

Returns the character at the specified index in a string.



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String Methods: Finding and Replacing Text

Searching

- `.indexOf()`
- `.lastIndexOf()`

Replacing

- `.replace()`
- `.replaceAll()`



Array Methods: Managing Data Collections

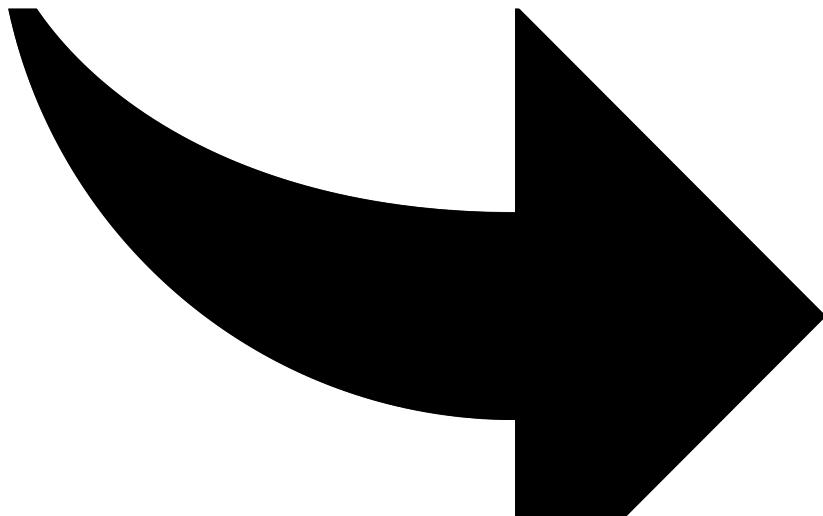
Name	Age	Department
Sarah	32	Sales
Michael	40	IT
Jessica	28	Marketing
David	32	HR
John	27	Engineering
Elizabeth	22	Finance
Richard	25	Operations
Ashley	28	Marketing
Sarah	25	IT
David	32	Sales

Name	Age	Department	Salary
Sarah	32	Sales	\$95,000
Michael	40	IT	\$85,000
Jessica	28	Marketing	\$95,000
David	32	HR	\$110,000
John	27	Engineering	\$90,000
Elizabeth	22	Finance	\$85,000
Richard	25	Operations	\$80,000
Ashley	28	Marketing	\$70,000
Sarah	25	IT	\$78,000
Jhosh	25	Finance	\$105,000



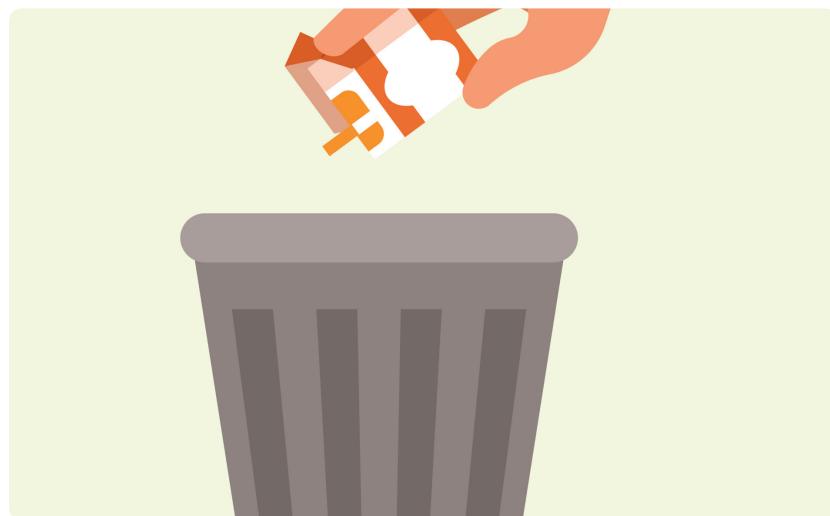
.length

Find the number of elements in an array.



.slice()

Make a copy of part of an array.



.indexOf()

Search for an element in an array and return its position.

.push() and .pop()

Add or remove elements to/from the end of an array.

Array Methods: Combining and Splitting Data

`.concat()`

Join two or more arrays into one.

`.join()`

Join all elements of an array into a string.

`.split()`

Split a string into an array of substrings.





Using JavaScript String and Array Methods to Solve Real-Life Problems

Cleaning up user input

`.trim(), .toLowerCase(), .toUpperCase(), .replace()`

Sorting and Filtering Data

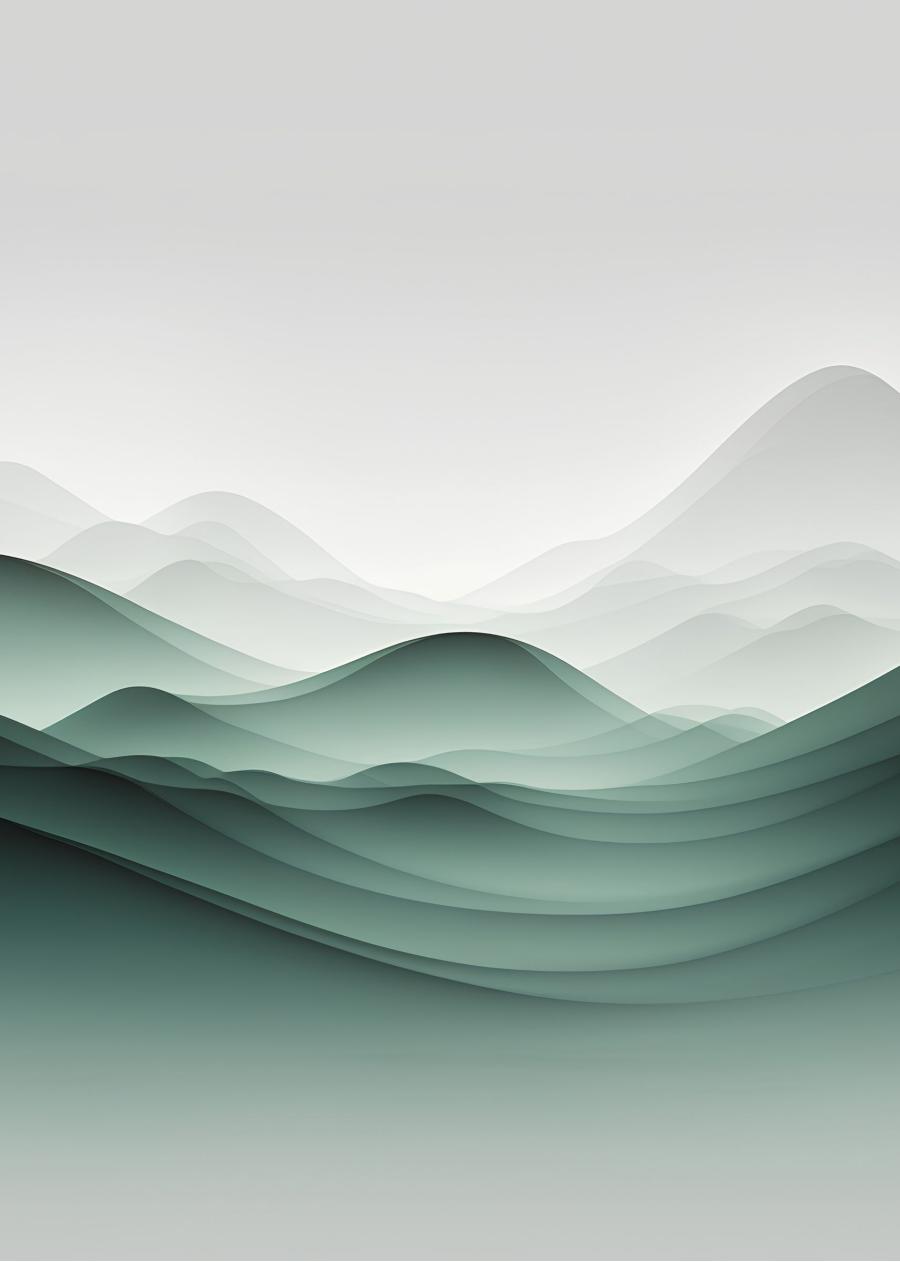
`.sort(), .reverse(), .filter()`

Array data manipulation

`.push(), .splice(), .pop(), .shift()`

Constructing and Formatting Strings

`.split(), .join(), .slice()`



Debugging JavaScript String and Array Methods

Console.log()

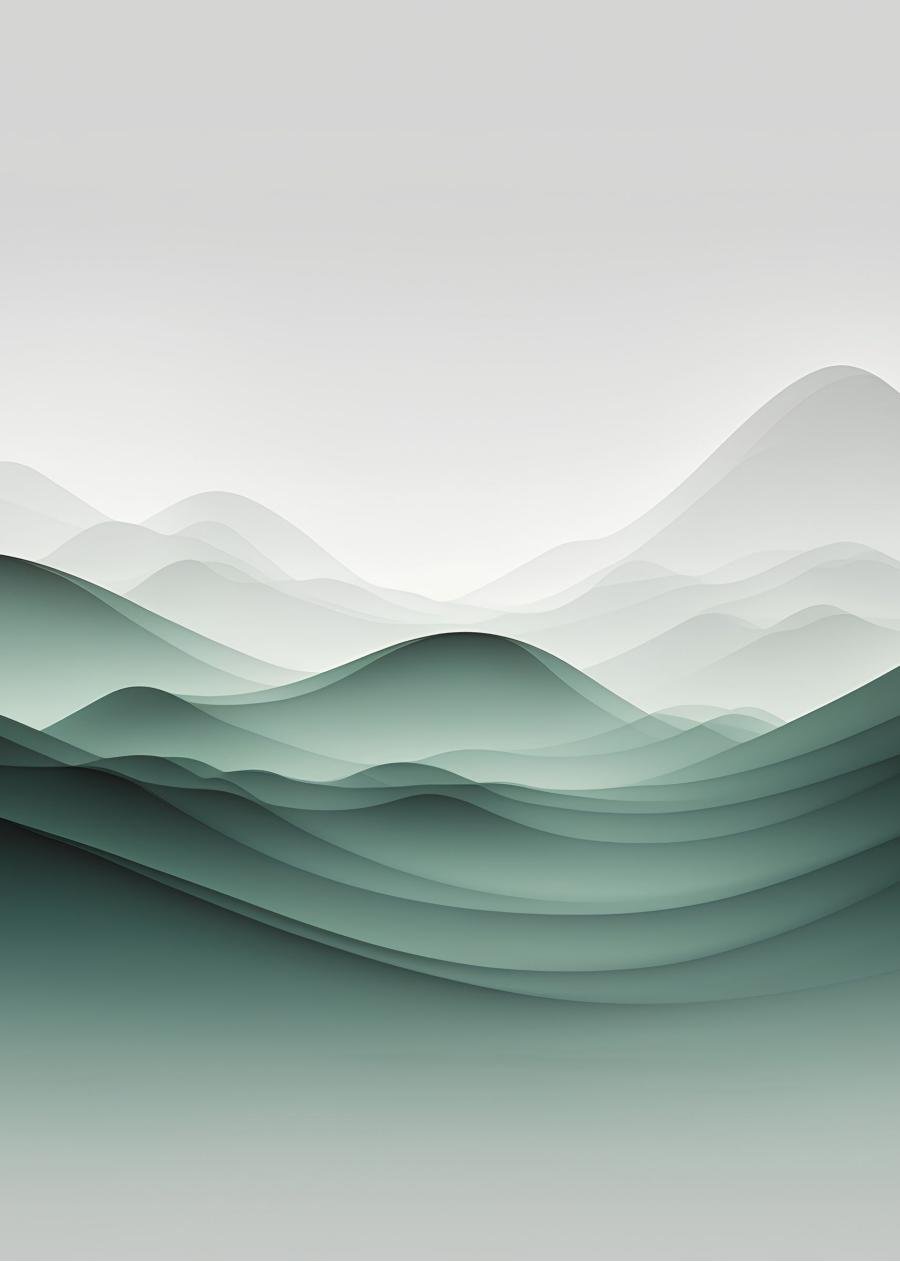
Use `console.log()` throughout your code to display intermediate results.

Debugger

Use the built-in debugger in your browser to step through your code and locate bugs.

Error handling

Use try-catch blocks to handle unexpected errors.



Wrapping Up

1

Practice Makes Perfect

Don't be discouraged if you face challenges while learning JavaScript. Keep practicing and exploring new methods and functionalities.

2

Stay Curious

JavaScript is a constantly evolving language. Stay updated with new developments and best practices.

3

Keep Learning

JavaScript is a versatile tool that can be used in many contexts. Keep exploring new domains and use cases.



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