



JavaScript

String Methods

JavaScript String methods with examples

JavaScript String Methods

at0 Method

The `at()` method takes an index and returns the character at that index, accommodating negative indices to count back from the end of the string.



```
1 const str = 'hello';
2 // Using positive index
3 console.log(str.at(0)); // Output: "h"
4 // Using negative index
5 console.log(str.at(-1)); // Output: "o"
```

JavaScript String Methods

charAt() Method

The `charAt()` method is used to get the character at a specified index.



```
1 const str = 'hello';
2 console.log(str.charAt(1)); // Output: "e"
```

JavaScript String Methods

charCodeAt() Method

The `charCodeAt()` method returns the Unicode of the character at the specified index.



```
1 const str = "hello";
2 console.log(str.charCodeAt(0)); // 104
```

JavaScript String Methods

codePointAt() Method

The codePointAt() method returns a non-negative integer that is the Unicode code point value.



```
1 const str = "hello";
2 console.log(str.codePointAt(0)); // 104
```

JavaScript String Methods

concat() Method

The concat() method is used to concatenate one or more strings to the existing one and returns the new concatenated string.



```
1 const str1 = 'Hello';
2 const str2 = ' world!';
3 console.log(str1.concat(str2)); // Output: "Hello world!"
```

JavaScript String Methods

endsWith() Method

The `endsWith()` method checks if the string ends with the specified string or characters.



```
1 const str = 'hello';
2 console.log(str.endsWith('o')); // Output: true
3 console.log(str.endsWith('l')); // Output: false
```

JavaScript String Methods

includes() Method

The includes() method checks if the string contains a specified string or characters.



```
1 const str = 'hello';
2 console.log(str.includes('ll')); // Output: true
3 console.log(str.includes('z'))); // Output: false
```

JavaScript String Methods

indexOf() Method

The indexOf() method returns the index of the first occurrence of a specified text in a string.



```
1 const str = "hello world";
2 console.log(str.indexOf("world")); // 6
```

JavaScript String Methods

lastIndexOf() Method

The lastIndexOf() method returns the index of the last occurrence of a specified text in a string.



```
1 const str = "hello world";
2 console.log(str.indexOf("world")); // 6
```

JavaScript String Methods

localeCompare() Method

The `localeCompare()` method returns a number indicating whether the reference string comes before, matches, or comes after the given string in sort order.



```
1 const str1 = 'a';
2 const str2 = 'b';
3 console.log(str1.localeCompare(str2)); // Output: -1
```

JavaScript String Methods

match() Method

The `match()` method retrieves the matches of a string against a search pattern specified by a regular expression object.



```
1 const str = 'hello world';
2 const result = str.match(/hello/);
3 console.log(result[0]); // Output: "hello"
```

JavaScript String Methods

matchAll() Method

The `matchAll()` method returns an iterator of all results matching a string against a regular expression, including capturing groups.



```
1 const str = 'hello world';
2 const regex = /h(e)(l)(l)o/g;
3 const array = [...str.matchAll(regex)];
4 console.log(array[0]); // Output: ["hello", "e", "l", "l", "o"]
```

JavaScript String Methods

normalize() Method

The normalize() method returns the Unicode Normalization Form of the string, which is useful for comparing strings in an accent-insensitive manner.



```
1 const str = '\u1E9B\u0323';
2 console.log(str.normalize('NFC'));
```

// Output: "\u1E9B\u0323"

JavaScript String Methods

padEnd() Method

The padEnd() method pads the current string from the end with a given string (repeated, if needed) until the resulting string reaches a given length.



```
1 const str = 'hello';
2 console.log(str.padEnd(8, '!')); // Output: "hello!!!"
```

JavaScript String Methods

padStart() Method

The padStart() method Pads the current string from the start with a given string until the resulting string reaches the given length.



```
1 const str = 'world';
2 console.log(str.padStart(8, '!'));
```

// Output: "!!!world"

JavaScript String Methods

repeat() Method

The repeat() method constructs and returns a new string that contains the specified number of copies of the string on which it was called, concatenated together.



```
1 const str = "ha";
2 console.log(str.repeat(3)); // "hahaha"
```

JavaScript String Methods

replace() Method

The replace() method returns a new string with some or all matches of a pattern replaced by a replacement.



```
1 const str = 'hello world';
2 console.log(str.replace('world', 'everyone')); // Output: "hello everyone"
```

JavaScript String Methods

replaceAll Method

The replaceAll() method returns a new string with all matches of a pattern replaced by a replacement.



```
1 const str = 'hello world, hello';
2 console.log(str.replaceAll('hello', 'hi'));
```

JavaScript String Methods

search() Method

The search() method executes a search for a match between a regular expression and this String object.



```
1 const str = 'hello world';
2 console.log(str.search('world'));
```

// Output: 6

JavaScript String Methods

slice() Method

The slice() method extracts a part of a string and returns it as a new string, without modifying the original string.



```
1 const str = 'hello world';
2 console.log(str.slice(0, 5)); // Output: "hello"
```

JavaScript String Methods

split() Method

The split() method divides a String into an ordered list of substrings, puts these substrings into an array, and returns the array.



```
1 const str = 'hello world';
2 console.log(str.split(' ')); // Output: ["hello", "world"]
```

JavaScript String Methods

startsWith() Method

The `startsWith()` method checks if a string starts with certain characters.



```
1 const str = 'hello';
2 console.log(str.startsWith('he'));
```

// Output: true

JavaScript String Methods

substr() Method

The substr() method extracts parts of a string, beginning at the character at the specified position, and returns the specified number of characters.



```
1 const str = 'hello world';
2 console.log(str.substr(0, 5)); // Output: "hello"
```

JavaScript String Methods

substring0 Method

The substring0 method extracts characters from a string between two specified indices.



```
1 const str = 'hello world';
2 console.log(str.substring(0, 5)); // Output: "hello"
```

JavaScript String Methods

toLocaleLowerCase() Method

The `toLocaleLowerCase()` method converts all the alphabetic characters in a string to lowercase, taking into account the host environment's current locale.



```
1 const str = 'HELLO';
2 console.log(str.toLocaleLowerCase()); // Output: "hello"
```

JavaScript String Methods

toLocaleUpperCase() Method

The `toLocaleUpperCase()` method converts all the alphabetic characters in a string to uppercase, taking into account the host environment's current locale.



```
1 const str = 'hello';
2 console.log(str.toLocaleUpperCase()); // Output: "HELLO"
```

JavaScript String Methods

toLowerCase() Method

The `toLowerCase()` method returns the calling string value converted to lowercase.



```
1 const str = 'HELLO';
2 console.log(str.toLowerCase()); // Output: "hello"
```

JavaScript String Methods

toString() Method

The `toString()` method returns a string representing the specified object.



```
1 const strObj = new String('hello');
2 console.log(strObj.toString()); // Output: "hello"
```

JavaScript String Methods

toUpperCase() Method

The `toUpperCase()` method converts a string to uppercase letters.



```
1 const str = 'hello';
2 console.log(str.toUpperCase()); // Output: "HELLO"
```

JavaScript String Methods

trim() Method

The trim() method removes whitespace from both ends of a string.



```
1 const str = ' hello ';  
2 console.log(str.trim()); // Output: "hello"
```

JavaScript String Methods

trimStart() Method

The trimStart() method removes whitespace from the beginning of a string.



```
1 const str = ' hello';
2 console.log(str.trimStart()); // Output: "hello"
```

JavaScript String Methods

trimEnd() Method

The trimEnd() method removes whitespace from the end of a string.



```
1 const str = 'hello  ';
2 console.log(str.trimEnd()); // Output: "hello"
```

JavaScript String Methods

valueOf() Method

The `valueOf()` method returns the primitive value of a 'String' object.



```
1 const strObj = new String('hello');
2 console.log(strObj.valueOf()); // Output: "hello"
```

JavaScript String Methods

Which of these JavaScript String methods do you use in your projects?

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