

In JavaScript, strings are sequences of characters used to represent text. Strings are immutable, meaning their values cannot be changed once created.

JavaScript String Methods

1. length

- Returns the length of the string.
- Example: `"Hello".length` → 5

2. charAt(index)

- Returns the character at the specified index.
- Example: `"Hello".charAt(1)` → "e"

3. charCodeAt(index)

- Returns the Unicode value of the character at the specified index.
- Example: `"ABC".charCodeAt(0)` → 65

4. concat(str1, str2, ...)

- Joins two or more strings.
- Example: `"Hello".concat(" ", "World")` → "Hello World"

5. String.fromCharCode(num1, num2, ...)

- Converts Unicode values to a string.
- Example: `String.fromCharCode(72, 101, 108, 108, 111)` → "Hello"

6. indexOf(substring)

- Finds the first occurrence of a substring.
- Example: `"Hello World".indexOf("o")` → 4

7. lastIndexOf(substring)

- Finds the last occurrence of a substring.
- Example: `"Hello World".lastIndexOf("o")` → 7

8. includes(substring)

- Checks if a substring exists in the string (returns `true` / `false`).
- Example: `"Hello World".includes("World")` → `true`

9. search(regex or string)

- Searches for a substring (or pattern) and returns the index of the first match.
- Example: `"Hello World".search("World")` → 6

10. slice(start, end)

- Extracts a part of a string.
- Example: `"Hello World".slice(0, 5)` → "Hello"

11. substring(start, end)

- Similar to `slice` , but does not accept negative indexes.
- Example: `"Hello".substring(1, 4) → "ell"`

12. `substr(start, length)`

- Extracts a substring from a given start position and length.
- Example: `"Hello World".substr(6, 5) → "World"`

13. `replace(old, new)`

- Replaces a substring.
- Example: `"Hello World".replace("World", "JS") → "Hello JS"`

14. `split(separator)`

- Splits a string into an array based on a separator.
- Example: `"a,b,c".split(",") → ["a", "b", "c"]`

15. `trim()`

- Removes whitespace from both ends of a string.
- Example: `" Hello ".trim() → "Hello"`

16. `repeat(n)`

- Repeats a string `n` times.
- Example: `"Hi".repeat(3) → "HiHiHi"`

17. `padStart(length, char)`

- Pads the start of a string with `char` until it reaches `length` .
- Example: `"5".padStart(3, "0") → "005"`

18. `padEnd(length, char)`

- Pads the end of a string with `char` until it reaches `length` .
- Example: `"5".padEnd(3, "0") → "500"`