# JavaScript

# **Strings**

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#### Outline

- Introduction to Strings
- String Literals



## Recap

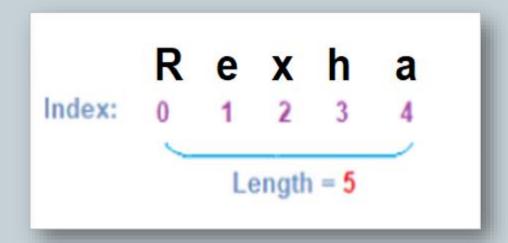
# Loops · for

- while
- · do while



### String

- a sequence of characters used to represent text
- the textual data is stored as strings.
- there is no separate type for a single character.
- a String is one of the **primitive values** and the String object is a wrapper around a String primitive.





Strings can be enclosed within either single quotes, double quotes or backticks:

```
let single = 'single-quoted';
let double = "double-quoted";
let backticks = `backticks`;
"" // The empty string: it has zero characters
'testing'
"3.14"
'name="myform"
"Wouldn't you prefer O'Reilly's book?"
"τ is the ratio of a circle's circumference to its radius"
`"She said 'hi'", he said.`
```



Advantage of using backticks is that they allow a string to span multiple lines:

```
let guestList = `Guests:
  * John
  * Pete
  * Mary `;
console.log(guestList); // a list of guests, multiple lines
```



Single or double quotes do not work this way

let guestList = "Guests:

- John"; // Error: Unexpected token ILLEGAL
- Strings delimited with backticks are a feature of ES6.
- They allow JavaScript expressions to be embedded within (or interpolated into) the string literal.



#### Strings are immutable

```
Strings cannot be changed in JavaScript. They can only be reassigned. let str = 'Hi'; str[o] = 'h'; console.log(str[o]); // H let s = "hello"; // Start with some lowercase text s.toUpperCase(); // Returns "HELLO", but doesn't alter <math>s console.log(s) // => "hello": the original string has not changed <math>s=s.toUpperCase();
```

console.log(s) // HELLO



#### String Methods

```
let msg = "Hello," + "world"; // Produces the string "Hello, world"
let greeting = "Welcome to my blog," + " " + name;
let msg = "Hello world!"; console.log(msg.startsWith("Hello")); //
true
console.log(msg.endsWith("!")); // true
console.log(msg.includes("o")); // true
```



#### String Methods

console.log(msg.startsWith("o")); // false
console.log(msg.endsWith("world!")); // true
console.log(msg.includes("x")); // false
console.log(msg.startsWith("o", 4)); // true
console.log(msg.endsWith("o", 8)); // true
console.log(msg.includes("o", 8)); // false



• Can also use '\n' for multi line string.

```
let guestList = "Guests:\n * John\n * Pete\n * Mary";
console.log(guestList); // a multiline list of guests
```

But single or double quotes do not work this way.

```
let guestList = "Guests:
```

\* John"; // Error: Unexpected token ...



Questions?



Thank you.

