



JavaScript - Strings and String Methods

Definition

String - a sequence of one or more characters surrounded by quotation marks

A character is anything you can type with a keyboard, including spaces

Examples:

“San Leandro Pirates”

“(510) 618-4600”

“ \$34 5%ijsrg -+= ”

Index

Every character in a string has an index, which is the order and position of the character.

The indices (plural for index) start at zero

Example: Given the string "banana"

index:	0	1	2	3	4	5
character:	b	a	n	a	n	a

Methods

A method is a function that is built-in to JavaScript that we can use to work with data.

4 String methods to know:

length - returns the number of characters in a string

charAt() - returns a single character at a given index

substring() - returns part of a string with a clear start and stop point

length

Example:

```
var address = "2200 Bancroft Ave";  
console.log(address.length)
```

What will get printed in the console?

17

charAt()

Example:

```
var name = "Richardson";  
console.log(name.charAt(4))  
console.log(name.charAt(0))  
console.log(name.charAt(name.length - 1))
```

What will get printed in the console?

a

R

n

Note: length - 1 will always give the last index

substring()

Example:

```
var tele = "(510) 618-4600";  
console.log(tele.substring(9))  
console.log(tele.substring(1,4))
```

What will get printed in the console?

4600

510

substring()

Substring can take one or two parameters

substring(a) - returns the part of the string starting at index a, and all characters after

substring(a, b) - returns the part of the string starting at index a, up to, but not including index b