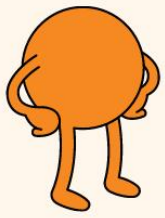
Javascript String replace()

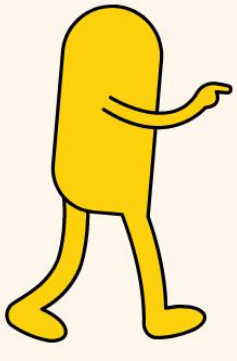
```
let str = "This is Java.";
```

The replace() method returns a new string with the specified string/regex replaced.



....replace Java with Javascript

```
let result = str.replace('Java', 'Javascript');
console.log(result);
```



Output - **This is Javascript.**

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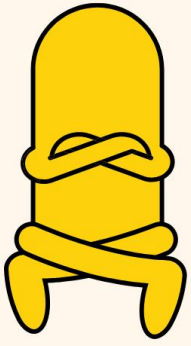
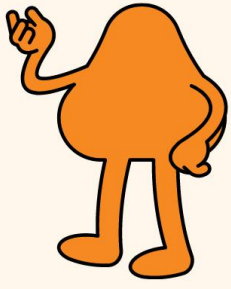


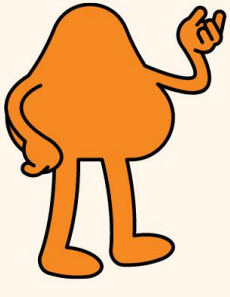
....show me the Syntax and explain each term present in it

pattern - string/regex to be replaced



Here, **str** is a string.

```
str.replace(pattern, replacement)
```



replacement - **pattern** is replaced with this **replacement**

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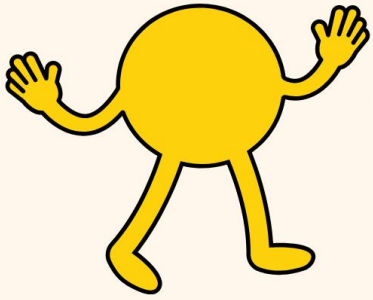


....how can I replace first occurrence of the pattern

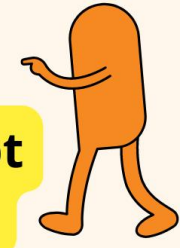
```
const str = "This is Java and Java is the best."
```

String as First Occurrence -

```
let pattern = "Java";
let result = str.replace(pattern, "JavaScript");
console.log(result);
```

Output -

This is JavaScript and Java is the best.

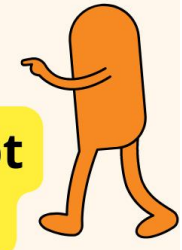


Regex as First Occurrence -

```
let pattern = /Java/;
let result = str.replace(pattern, "JavaScript");
console.log(result);
```

Output -

This is JavaScript and Java is the best.



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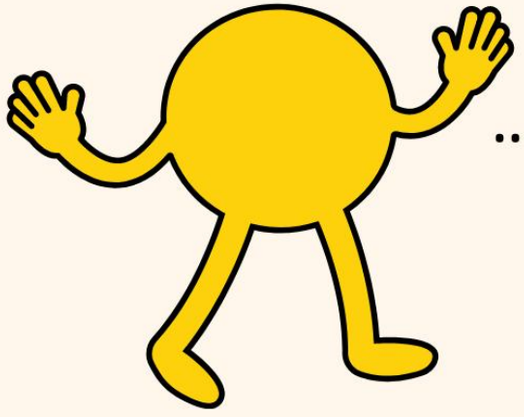

....how can I replace all the occurrences of the pattern

```
const str = "This is Java and Java is the best."
```

We need to use **Regex** with **g switch**

```
let pattern = /Java/g; //global search
let result = str.replace(pattern, "JavaScript");
console.log(result);
```

Output -

This is JavaScript and JavaScript is the best.

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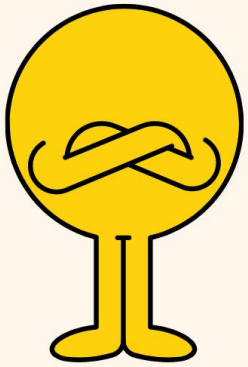
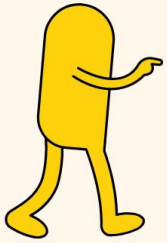


....now tell me how can I replace occurrences without considering Uppercase/Lowercase

```
const str = "javaSCRIPT JavaScript";
```

All occurrences replaced -

```
let pattern = /javascript/gi;  // case-insensitive and global search
let result = str.replace(pattern, "JS");
console.log(result);
```



Output - **JS JS**

Note - To replace only **First Occurrence** just remove **g** from the Regex

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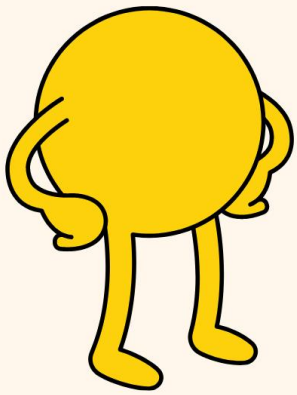


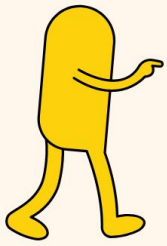
....how can I pass a function as a replacement

```
const str = "Random digit: 2";
```

```
function generateRandomDigit() {
  return Math.floor(Math.random() * 10);
}
```

Function - Generates a random digit between 0 and 9

```
let pattern = /\d/; //Regex to match a digit
let result = str.replace(pattern, generateRandomDigit);
console.log(result);
```



Output - **Random digit : 4**

Note - Every time a new number will be there in the output

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