How to reverse a string in javascript

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Posted in Javascript, String

Learn how to effectively reverse a string in javascript.

Strings can be treated as an array like object in javascript and we can use this advantage to perform different actions on it.

Reversing a string with inbuilt methods.

We are going to follow the following approach to reverse the given string.

- split(): This method will split the string at given expression into an array of characters.

- reverse(): This method reverses all the elements of an array.

- join(): This method joins all the elements of the array at a given expression to create a string.

Using all the above methods in line we can reverse any string with ease in javascript.

```
let str = 'learnersbucket';
let reversed = str.split('').reverse().join('');
console.log(reversed);
//'tekcubsrenrael'
```

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Explanation

Passing `''` in `split()` method will split the each character of the string.

```
let str = 'learnersbucket';
console.log(str.split(''));
//["l", "e", "a", "r", "n", "e", "r", "s", "b", "u", "c", "k", "e", "t"]
```

Now once we have an array of character we can reverse it with the
`reverse()` method.

```
console.log(str.split('').reverse());
//["t", "e", "k", "c", "u", "b", "s", "r", "e", "n", "r", "a", "e", "l"]
```

We can now create our reversed string by joining all the elements of the
array.

```
console.log(str.split('').reverse().join(''));
//'tekcubsrenrael'
```

Brute force approach to reverse a string

As we already know strings are an array like object in javascript. We can just
simply loop through each character of the string in reverse order and form a
reversed string.

```
let str = 'learnersbucket';
let reversed = '';
for(let i = str.length - 1; i >= 0; i--){
  reversed += str[i];
}

console.log(reversed);
//'tekcubsrenrael'
```

We can extend the `String.prototype` to have a method to reverse a string.

```
//ES5
String.prototype.reverse = function () {
   let reversed = '';
   for(let i = this.length - 1; i >= 0; i--){
      reversed += this[i];
   }
   return reversed;
}

let str = 'learnersbucket';
console.log(str.reverse());
//'tekcubsrenrael'
```

Extending the same in [ES6](#) with [Object.assign](#).

```javascript
Object.assign(String.prototype, {
    reverse() {
        let reversed = '';
        for(let i = this.length - 1; i >= 0; i--){
            reversed += this[i];
        }
        return reversed;
    }
});

let str = 'learnersbucket';
console.log(str.reverse());
//'tekcubsrenrael'
```

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