

Removing Those Weird Commas

ES6 template strings join arrays with commas using the `toString()` method. We can fix that and improve our UI. (5 min. read)

If you stayed sharp last lesson, you noticed something off about our fresh UI.

Wikipedia API Search

Searching for "JavaScript"

JavaScript

JavaScript (J, often abbreviated as JS, is a high-level, interpreted programming language. It is a language which is also characterized as dynamic, weakly typed, prototype-based and multi-paradigm.

← Extra comma

JavaScript syntax

The syntax of JavaScript is the set of rules that define a correctly structured JavaScript program.

← Extra comma

JavaScript engine

A JavaScript engine is a program or interpreter which executes JavaScript code. A JavaScript engine may be a traditional interpreter, or it may utilize just-in-time compilation to bytecode in some manner.

It has extra commas! Why??

Template Literals

It's all about how template literals join things. If you stick in an array, it'll join it using the `toString()` method.

See how this becomes joined?

```
const joined = [1, 2, 3].toString();

console.log(joined);
// 1,2,3

console.log(typeof joined);
// string
```



Template literals do that if you put arrays inside of them.

```
const nums = [1, 2, 3];
const msg = `My favorite nums are ${nums}`;

console.log(msg);
// My favorite nums are 1,2,3
```



So by mapping our Wikipedia results inside of a template literal, we accidentally had commas inserted in between them!

```
export default ([query, names, summaries, links]) => `
  <h2>Searching for "${query}"</h2>
  <ul class="list-group">
    ${names.map(
      (name, index) => `
        <li class="list-group-item">
          <a href=${links[index]} target="_blank">
            <h4>${name}</h4>
          </a>
          <p>${summaries[index]}</p>
        </li>
      `
    )}
  </ul>
`;
```

You can fix that by joining the array without commas. Just use an empty string!

Here's with our `[1, 2, 3]` example

```
const nums = [1, 2, 3];
const msg = `My favorite nums are ${nums.join('')} `;

console.log(msg);
// My favorite nums are 123
```



No more commas! Let's try that with our results `map`.

```
export default ([query, names, summaries, links]) => `
  <h2>Searching for "${query}"</h2>
```

```

<ul class="list-group">
  ${names
    .map(
      (name, index) => `
<li class="list-group-item">
  <a href=${links[index]} target="_blank">
    <h4>${name}</h4>
  </a>
  <p>${summaries[index]}</p>
</li>
`
    )
  .join('')}
</ul>
`;

```

Check out your UI. Looks much nicer right?

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JavaScript library