Component Lists

Mohamed Mukthar Ahmed

Component Lists

Outline

- **Review – Array.map**
  - **MDN Document**
  - **Try Out!**
- **Rendering Multiple Components**
- **Getting Data**
- **Card – Component List**

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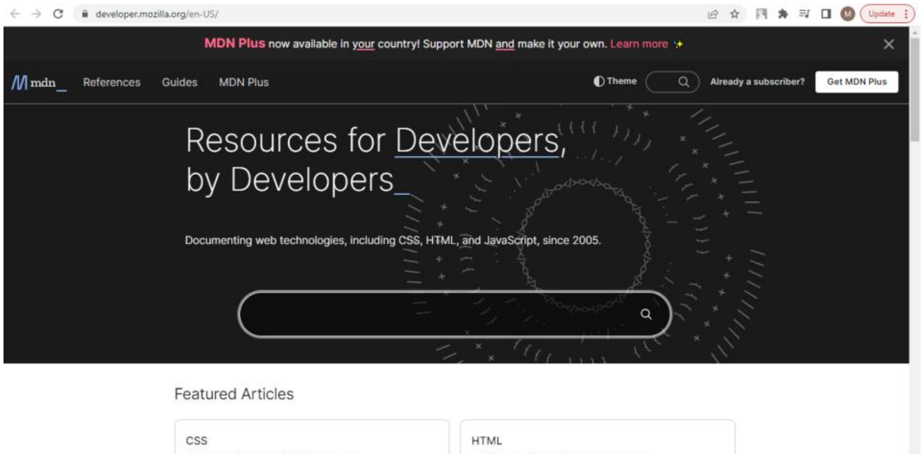
Review – Array.map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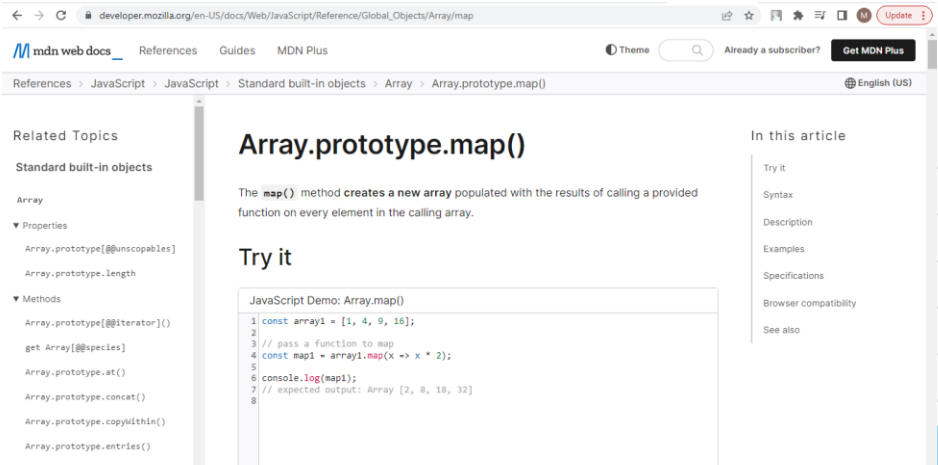
Review – Array.map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References › JavaScript › JavaScript › Standard built-in objects › Array › Array.prototype.map()

Related Topics

Standard built-in objects

`Array`

▼ Properties
- `Array.prototype[@@unscopables]`
- `Array.prototype.length`

▼ Methods
- `Array.prototype[@@iterator]()`
- `get Array[@@species]`
- `Array.prototype.at()`
- `Array.prototype.concat()`
- `Array.prototype.copyWithin()`
- `Array.prototype.entries()`

Array.prototype.map()

The `map()` method **creates a new array** populated with the results of calling a provided function on every element in the calling array.

Try it

JavaScript Demo: Array.map()

```
const array1 = [1, 4, 9, 16];

// pass a function to map
const map1 = array1.map(x => x * 2);

console.log(map1);
// expected output: Array [2, 8, 18, 32]

```

In this article
- Try it
- Syntax
- Description
- Examples
- Specifications
- Browser compatibility
- See also

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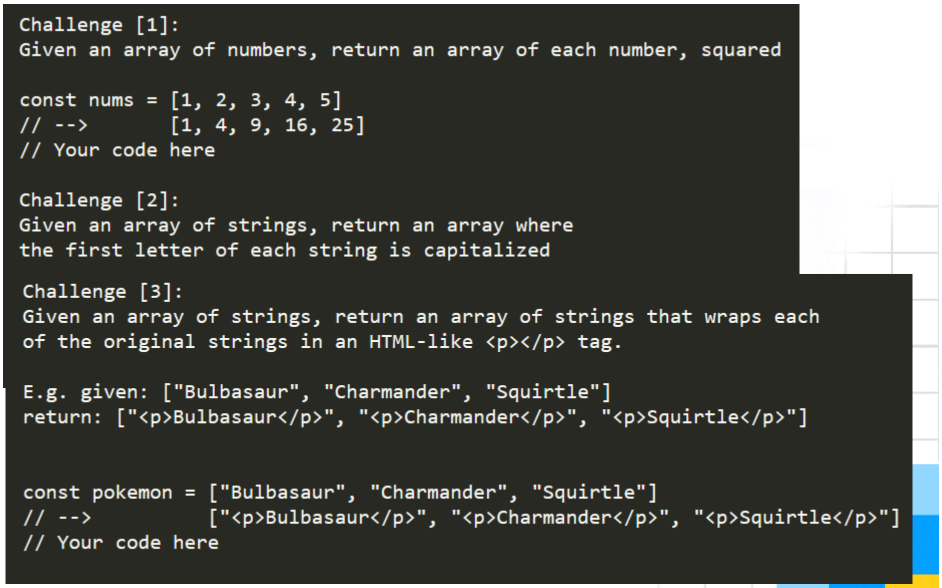
Mini Challenge!!!



```
Challenge [1]:
Given an array of numbers, return an array of each number, squared

const nums = [1, 2, 3, 4, 5]
// -->       [1, 4, 9, 16, 25]
// Your code here

Challenge [2]:
Given an array of strings, return an array where
the first letter of each string is capitalized
```

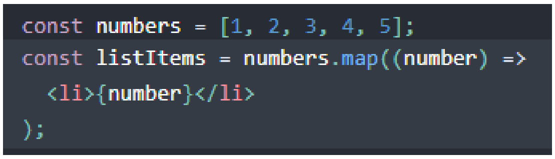
```
Challenge [3]:
Given an array of strings, return an array of strings that wraps each
of the original strings in an HTML-like <p></p> tag.

E.g. given: ["Bulbasaur", "Charmander", "Squirtle"]
return: ["<p>Bulbasaur</p>", "<p>Charmander</p>", "<p>Squirtle</p>"]


const pokemon = ["Bulbasaur", "Charmander", "Squirtle"]
// -->          ["<p>Bulbasaur</p>", "<p>Charmander</p>", "<p>Squirtle</p>"]
// Your code here
```

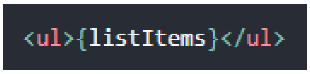
Rendering Multiple Components

- You can build **collections of elements** and include them in JSX using curly braces **{ }**.
- Below, we loop through the numbers array using the JavaScript **map()** function.
- We return a **<li>** element for each item. Finally, we assign the resulting array of elements to **listItems**



```
const numbers = [1, 2, 3, 4, 5];
const listItems = numbers.map((number) =>
  <li>{number}</li>
);
```

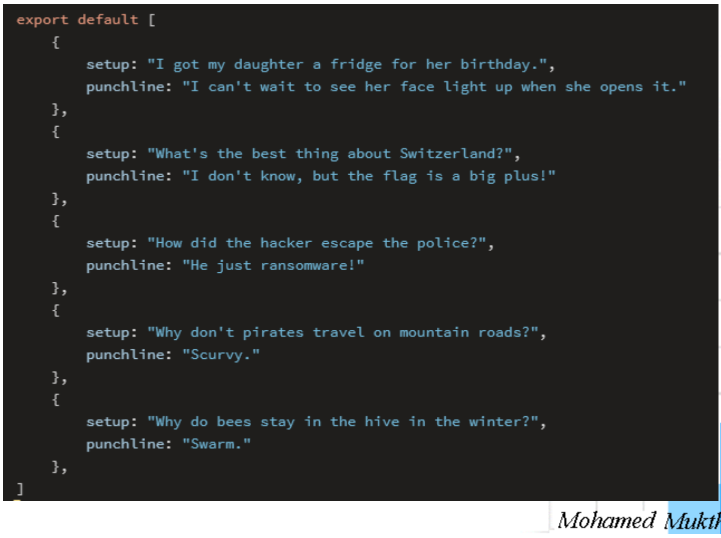
- Then, we can include the entire **listItems** array inside a **<ul>** element:



```
<ul>{listItems}</ul>
```

Rendering Multiple Components

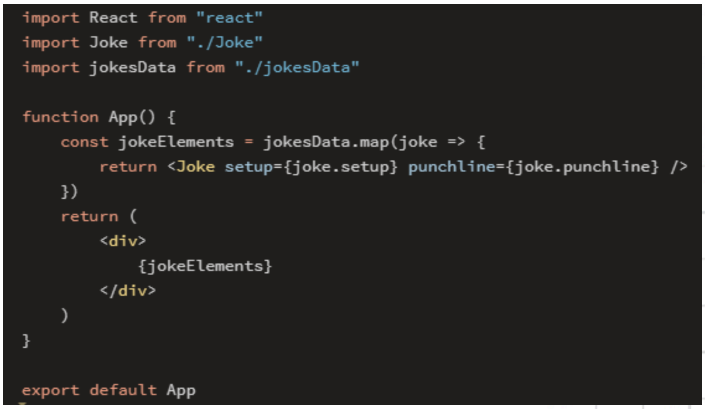
- Imagine that we have the **data** in a file as shown below:



```
export default [
    {
        setup: "I got my daughter a fridge for her birthday.",
        punchline: "I can't wait to see her face light up when she opens it."
    },
    {
        setup: "What's the best thing about Switzerland?",
        punchline: "I don't know, but the flag is a big plus!"
    },
    {
        setup: "How did the hacker escape the police?",
        punchline: "He just ransomware!"
    },
    {
        setup: "Why don't pirates travel on mountain roads?",
        punchline: "Scurvy."
    },
    {
        setup: "Why do bees stay in the hive in the winter?",
        punchline: "Swarm."
    },
]
```

Rendering Multiple Components

- Now the data can be imported from the file and rendered as React JSX elements

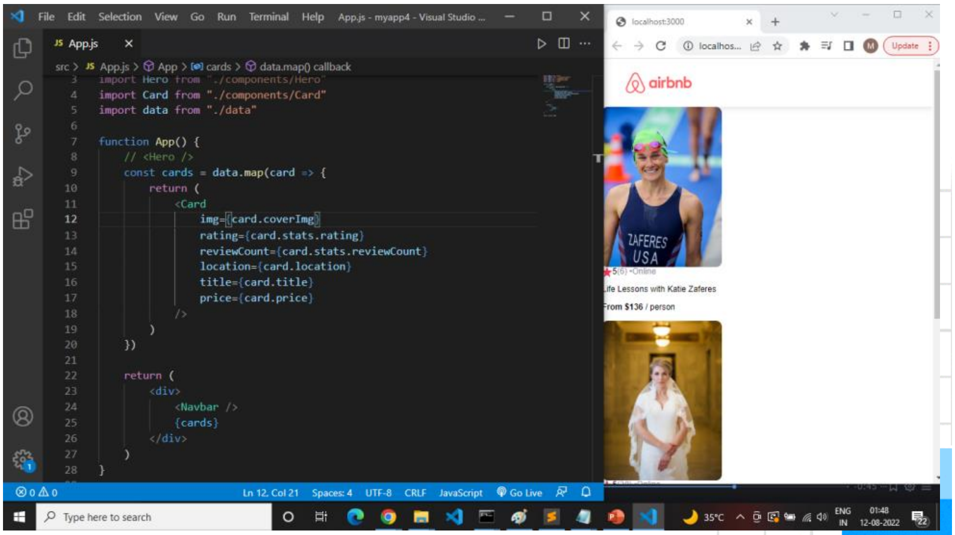


```
import React from "react"
import Joke from "./Joke"
import jokesData from "./jokesData"

function App() {
    const jokeElements = jokesData.map(joke => {
        return <Joke setup={joke.setup} punchline={joke.punchline} />
    })
    return (
        <div>
            {jokeElements}
        </div>
    )
}

export default App
```

airbnb – cards component



```
import Hero from "./components/Hero"
import Card from "./components/Card"
import data from "./data"

function App() {
    // <Hero />
    const cards = data.map(card => {
        return (
            <Card
                img={card.coverImg}
                rating={card.stats.rating}
                reviewCount={card.stats.reviewCount}
                location={card.location}
                title={card.title}
                price={card.price}
            />
        )
    })

    return (
        <div>
            <Navbar />
            {cards}
        </div>
    )
}
```

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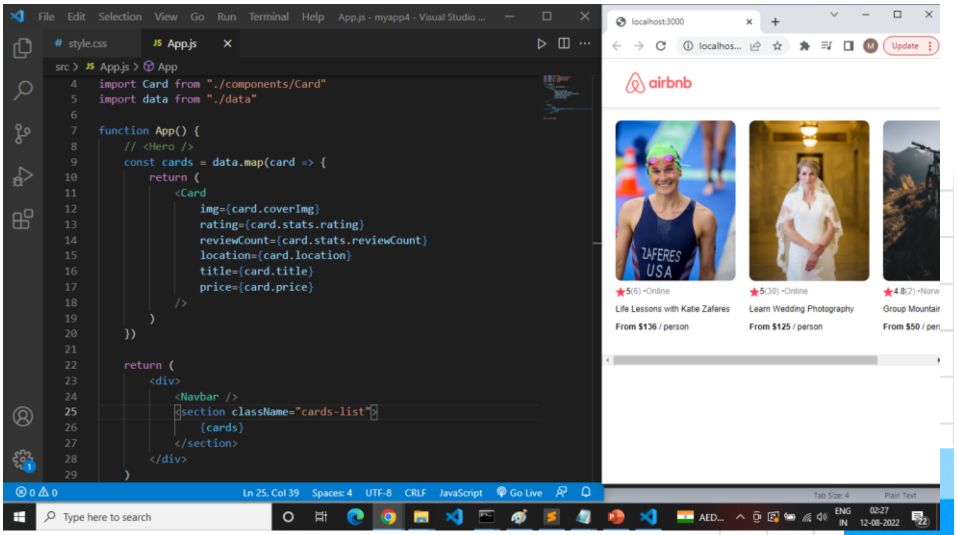
airbnb – cards component



```
import Card from "./components/Card"
import data from "./data"

function App() {
    // <Hero />
    const cards = data.map(card => {
        return (
            <Card
                img={card.coverImg}
                rating={card.stats.rating}
                reviewCount={card.stats.reviewCount}
                location={card.location}
                title={card.title}
                price={card.price}
            />
        )
    })

    return (
        <div>
            <Navbar />
            <section className="cards-list">
                {cards}
            </section>
        </div>
    )
```

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