

# How React makes me a better JavaScript developer?

@tavioalves

Who am I?



~~Front-end~~ Full Stack Developer at GeekHunter  
Computer Engineer by UFPA

*“Being a React developer makes you a better JavaScript developer.”*

— Robin Wieruch

High Order Functions

Ternary operator

“this”

ES6 built in functions

Class

Inheritance

Import and export

Templates literals

Destructuring

Spread operator

*“These are the fundamentals, which you don’t need necessarily to master before starting with React, but which will definitely come up while learning or practicing it.”*

— Robin Wieruch

# React and the beginner

```
import React, { Component } from 'react';
import logo from './logo.svg';
import './App.css';

export default class App extends Component {
  render() {
    return (
      <div className="App">
        <header className="App-header">
          <img src={logo} className="App-logo" alt="logo" />
          <p>
            Edit <code>src/App.js</code> and save to reload.
          </p>
          <a
            className="App-link"
            href="https://reactjs.org"
            target="_blank"
          >
            Learn React
          </a>
        </header>
      </div>
    );
  }
}
```

# JavaScript Class

```
class Developer {  
  constructor(firstname, lastname) {  
    this.firstname = firstname;  
    this.lastname = lastname;  
  }  
  
  getName() {  
    return this.firstname + ' ' + this.lastname;  
  }  
}  
  
var me = new Developer('Robin', 'Wieruch');  
  
console.log(me.getName());
```



# JavaScript Inheritance

```
class Developer {
  constructor(firstname, lastname) {
    this.firstname = firstname;
    this.lastname = lastname;
  }

  getName() {
    return this.firstname + ' ' + this.lastname;
  }
}

class ReactDeveloper extends Developer {
  getJob() {
    return 'React Developer';
  }
}

var me = new ReactDeveloper('Robin', 'Wieruch');

console.log(me.getName());
console.log(me.getJob());
```

# React Class

```
import React, { Component } from 'react';

class App extends Component {
  render() {
    return (
      <div>
        <h1>Welcome to React</h1>
      </div>
    );
  }
}

export default App;
```

# Let and Const

```
const PI = 3.14;  
let user = 'Otavio';
```

# Arrow Functions

```
// JavaScript ES5 function
```

```
function getGreeting() {  
  return 'Welcome to JavaScript';  
}
```

```
// JavaScript ES6 arrow function with body
```

```
const getGreeting = () => {  
  return 'Welcome to JavaScript';  
}
```

```
// JavaScript ES6 arrow function
```

```
//without body and implicit return
```

```
const getGreeting = () =>  
  'Welcome to JavaScript';
```

# Template Literals

```
function getGreeting(what) {  
  return 'Welcome to ' + what;  
}
```

```
// Template literals
```

```
function getGreeting(what) {  
  return `Welcome to ${what}`;  
}
```

# Destructuring

```
// no destructuring
const users = this.state.users;
const counter = this.state.counter;

// destructuring
const { users, counter } = this.state;
```

# Spread Operator

```
const props = {};
```

```
props.foo = x;
```

```
props.bar = y;
```

```
<Component {...props} />
```

# Map, Reduce and Filter

```
class App extends Component {  
  render() {  
    var users = [  
      { name: 'Robin' },  
      { name: 'Markus' },  
    ];  
  
    return (  
      <ul>  
        {users.map(user => <li>{user.name}</li>)}  
      </ul>  
    );  
  }  
}
```



# Ternary Operator

```
// Without ternary operator
```

```
const showUsers = false;
```

```
if (!showUsers) {  
  return null;  
}
```

```
return (  
  <ul>  
    {users.map(user => <li>{user.name}</li>)}  
  </ul>  
);
```

# Ternary Operator

```
// With ternary operator
const showUsers = false;

return (
  <div>
    {
      showUsers ? (
        <ul>
          {users.map(user => <li>{user.name}</li>)}
        </ul>
      ) : (
        null
      )
    }
  </div>
);
```

# Export

```
const person = {  
  firstname: 'Otavio',  
  lastname: 'Augusto',  
};  
  
export default person;
```

# Import

```
import person from './file.js';
```

```
console.log(person);
```

```
// output: { firstname: 'Otavio', lastname: 'Augusto' }
```

# High Order Functions

```
const users = [  
  { name: 'Robin' },  
  { name: 'Markus' },  
];  
  
const { query } = this.state;  
  
return (  
  <ul>  
    {users  
      .filter(user => query === user.name)  
      .map(user => <li>{user.name}</li>)  
    }  
  </ul>  
)
```

*“React doesn’t add any foreign abstraction layer on top as other web frameworks are doing it.  
Instead you have to use JavaScript.”*

— Robin Wieruch



**Robin Wieruch**

@rwieruch



All the fundamentals in JavaScript for React applications.  
Often React beginners realize that most of the learnin...  
robinwieruch.de

Hi Robin! How are you? I hope you are fine. I am a developer from Brazil, I am reaching you because I will have a talk at few days about "How React made me a better JavaScript developer" and your article [robinwieruch.de/javascript-fun...](https://robinwieruch.de/javascript-fun...) has greats topics that I want to show as examples at my talk, do you mind I use some of yours citations or code examples? Of course, I will give the proper credits and links to your website and article links. Thank you so much!



May 16 ✓

Hi Octavio. Sure thing! Please go for it. That's why I have put out the content :) Super glad that it helps you and that you can use it for your talk. Wish you best of luck :)



Octavio! Damn Autocorrect :)

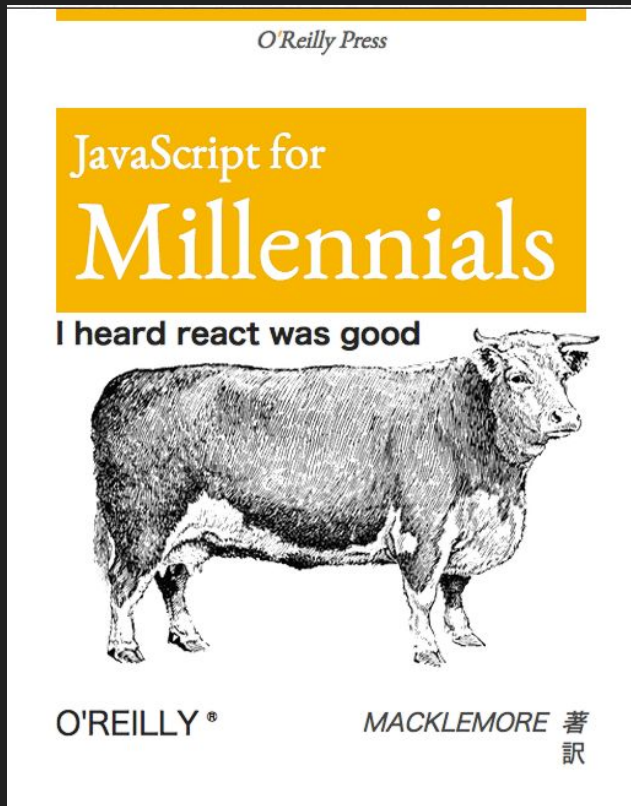
May 16

Thanks Robin! :D



1d ✓

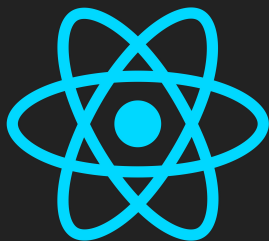
# Questions?





# Links

- <https://www.robinwieruch.de/javascript-fundamentals-react-requirements/>
- <https://medium.freecodecamp.org/functional-programming-principles-in-javascript-1b8fc6c3563f>
- <https://www.telerik.com/blogs/advanced-patterns-in-react>



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