

React.js

made simple

```
> $ whoami
```

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# Sobre o minicurso

- O básico do React
- Algumas boas práticas
- Pensando em componentes
- Dicas gerais



# What is React.js?

- A JavaScript library for building user interfaces.
- Declarative
- Component-Based



~~~Similares~~~





Quem usa?



# JSX



```
1 <h1 className="title">Hello World</h1>
```



```
1 React.createElement(  
2   "h1",  
3   { className: "title" },  
4   "Hello World"  
5 );
```



# JSX




```
1 const nav = (  
2   <nav className="menu">  
3     <ul>  
4       <li><a href="#">Home</a></li>  
5       <li><a href="#">About</a></li>  
6     </ul>  
7   </nav>  
8 )
```



```
1 var nav = React.createElement(  
2   "nav",  
3   { className: "menu" },  
4   React.createElement(  
5     "ul",  
6     null,  
7     React.createElement(  
8       "li",  
9       null,  
10      React.createElement(  
11        "a",  
12        { href: "#" },  
13        "Home"  
14      )  
15    ),  
16    React.createElement(  
17      "li",  
18      null,  
19      React.createElement(  
20        "a",  
21        { href: "#" },  
22        "About"  
23      )  
24    )  
25  )  
26 );
```

# 0 Primeiro Componente React



```
1 class HelloMessage extends React.Component {  
2   render() {  
3     return (  
4       <div>  
5         Hello {this.props.name}  
6       </div>  
7     );  
8   }  
9 }  
10  
11 ReactDOM.render(<HelloMessage name="Taylor" />, mountNode);
```

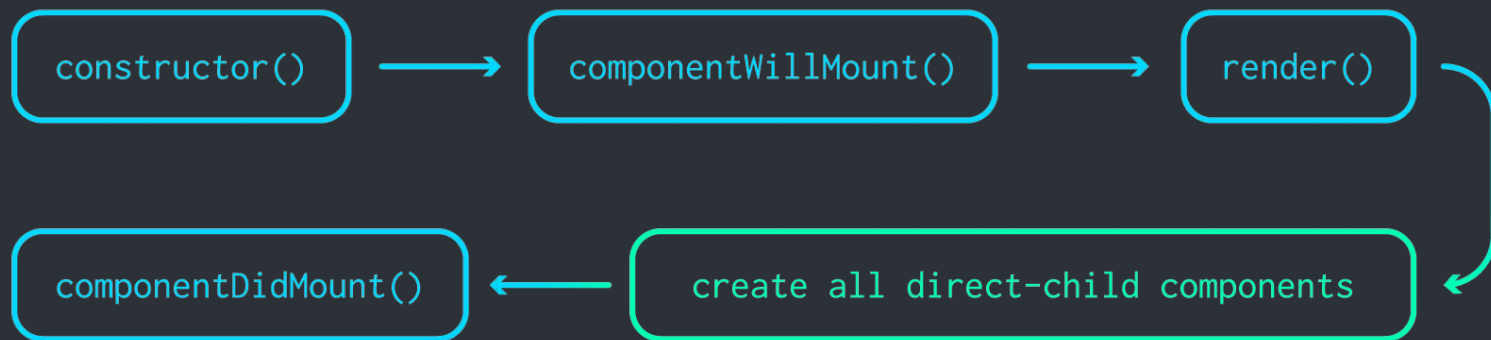


# The React Component *Lifecycle*

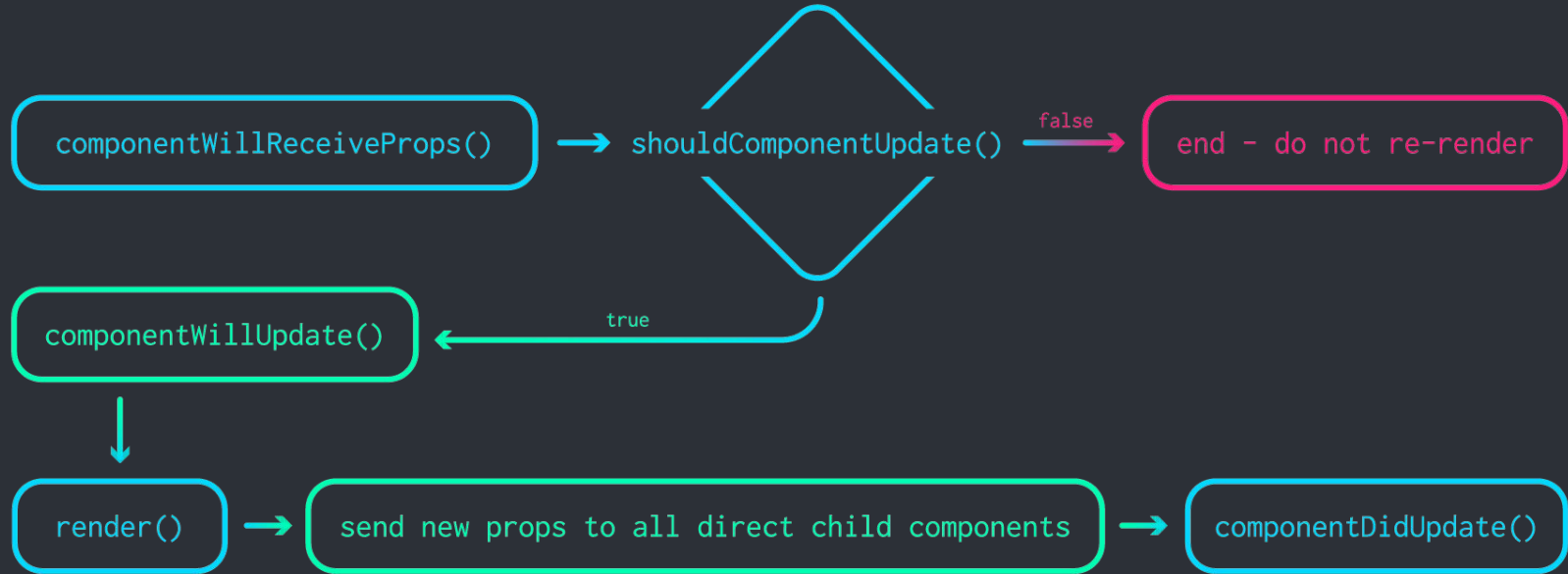
- Component creation
- Component re-rendering due to re-rendering of the parent component
- Component re-rendering due to internal change (e.g. a call to `this.setState()`)



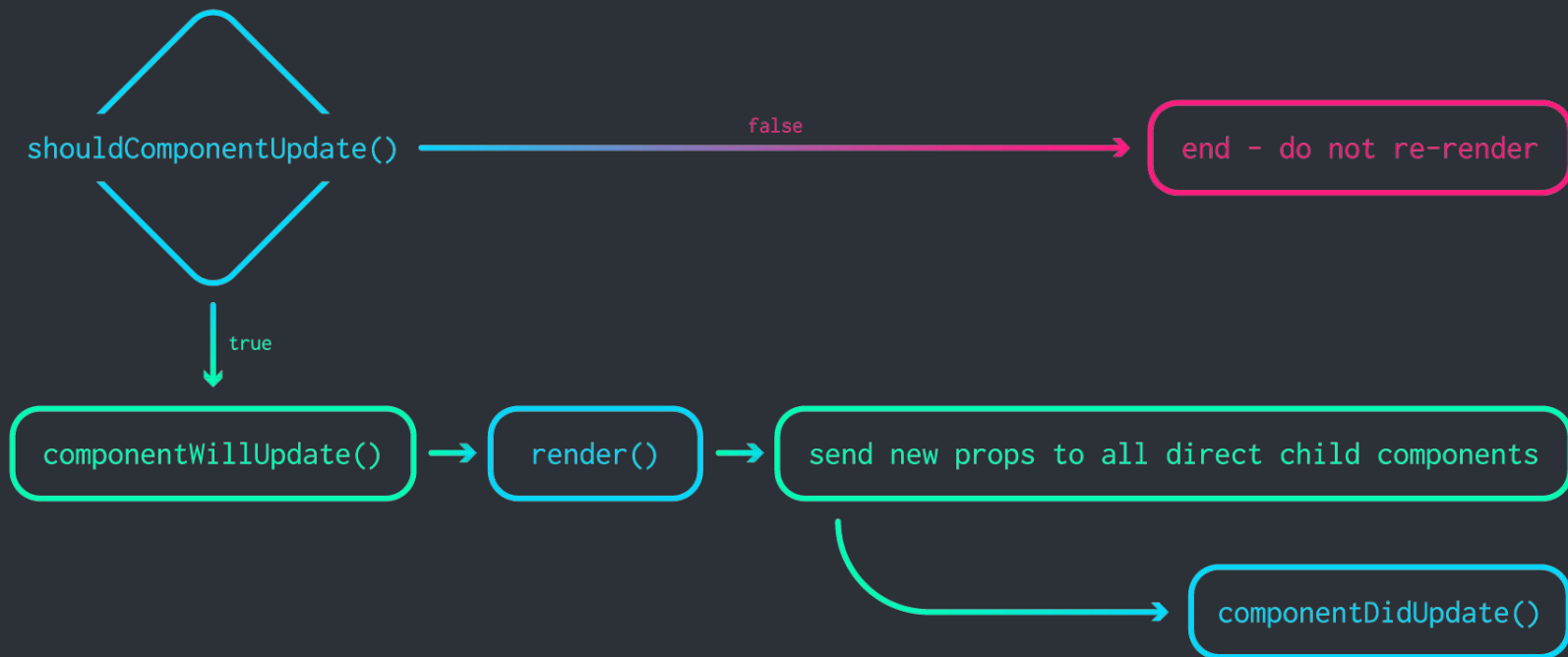
# Component creation



## Component re-rendering due to re-rendering of the parent component



Component re-rendering due to internal change (e.g. a call to `this.setState()`)



# CUIDADO!

- Componentes genéricos demais
- Componentes não reutilizáveis
- Re-renders desnecessários







**IT'S A  
TRAP**

# ES6/7

- Default Parameters
- Spread operator
- Arrow functions



# Default Parameters



```
1 const required = () => {throw new Error('Missing parameter')};  
2 const add = (a = required(), b = required()) => a + b;  
3  
4 add(1, 2) //3  
5 add(1) // Error: Missing parameter.
```

# Spread Operator



```
1 class MyContainer extends Component {
2   state = {
3     itemA: 'something',
4     itemB: 'another thing'
5   }
6
7   _onPress = () => {
8     // ...
9   }
10
11  _onPinch = () => {
12    // ...
13  }
14
15  render () {
16    return (
17      <MyComponent
18        propA={this.props.propA}
19        propB={this.props.propB}
20        itemA={this.state.itemA}
21        itemB={this.state.itemB}
22        onPress={this._onPress}
23        onPinch={this._onPinch}
24      />
25    )
26  }
27 }
```



```
1 class MyContainer extends Component {
2   state = {
3     itemA: 'something',
4     itemB: 'another thing'
5   }
6
7   _onPress = () => {
8     // ...
9   }
10
11  _onPinch = () => {
12    // ...
13  }
14
15  _generateProps = () => ({
16    ...this.props,
17    ...this.state,
18    onPress: this._onPress,
19    onPinch: this._onPinch
20  })
21
22  render () {
23    const props = this._generateProps()
24    return (
25      <MyComponent { ...props} />
26    )
27  }
28 }
```



```
1 let object1 = { a:1, b:2, c:3 }  
2 let object2 = { b:30, c:40, d:50 }  
3 let merged = { ...object1, ...object2 } //spread and re-add into merged  
4  
5 console.log(merged) // {a:1, b:30, c:40, d:50}
```

## Busquem conhecimento...

- `create-react-app`
- `react-awesome`
- `react-native`
- Gatsby
- React Brasil
- React DevTools
- Storybook
- SS Rendering
- Redux
- Jest





**TALK IS CHEAP**



**SHOW ME THE CODE**

`github.com/brenohq`

`git clone <URL-DO-PRIMEIRO-REPO>`

`cd react-made-simple-workshop`

`npm i`

`npm start`

kill npm start (CTRL+C)

git checkout step-1

npm start

npm i

CTRL+Click -> <http://localhost:1234>