

QUÉ ES

Una librería para componer interfaces y renderizarlas

QUÉ NO ES

Un framework completo con router, cliente HTTP, etc

¿PARA QUÉ?



Separar la UI en componentes reusables



Actualizar la UI automáticamente cuando los datos cambian

CARACTERÍSTICAS

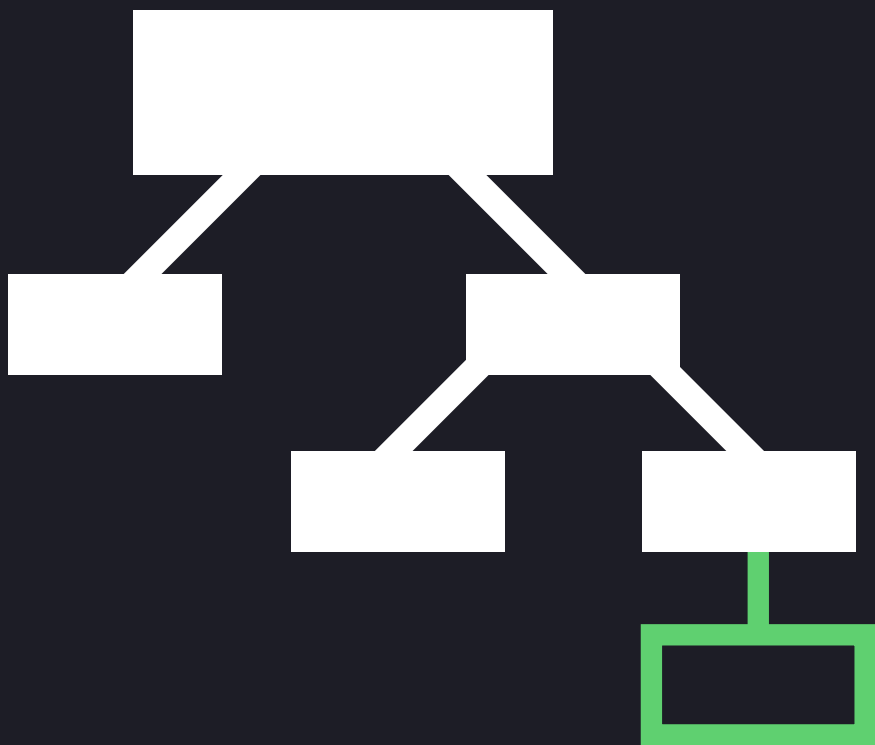
1 Virtual DOM

2 Flujo unidireccional de datos

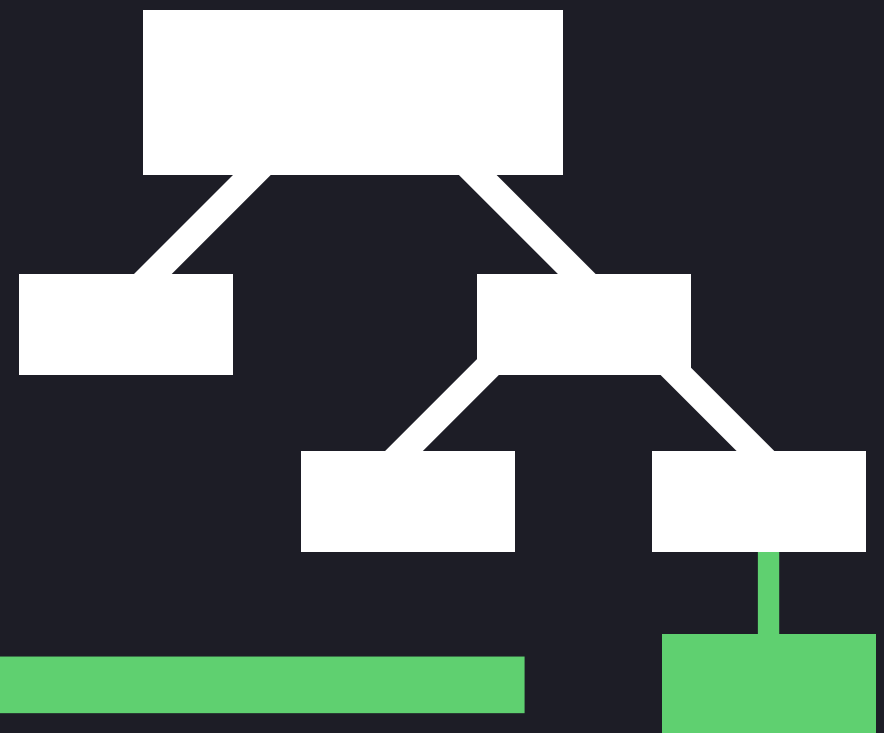
3 JSX

4 Componentes

VIRTUAL DOM



DOM



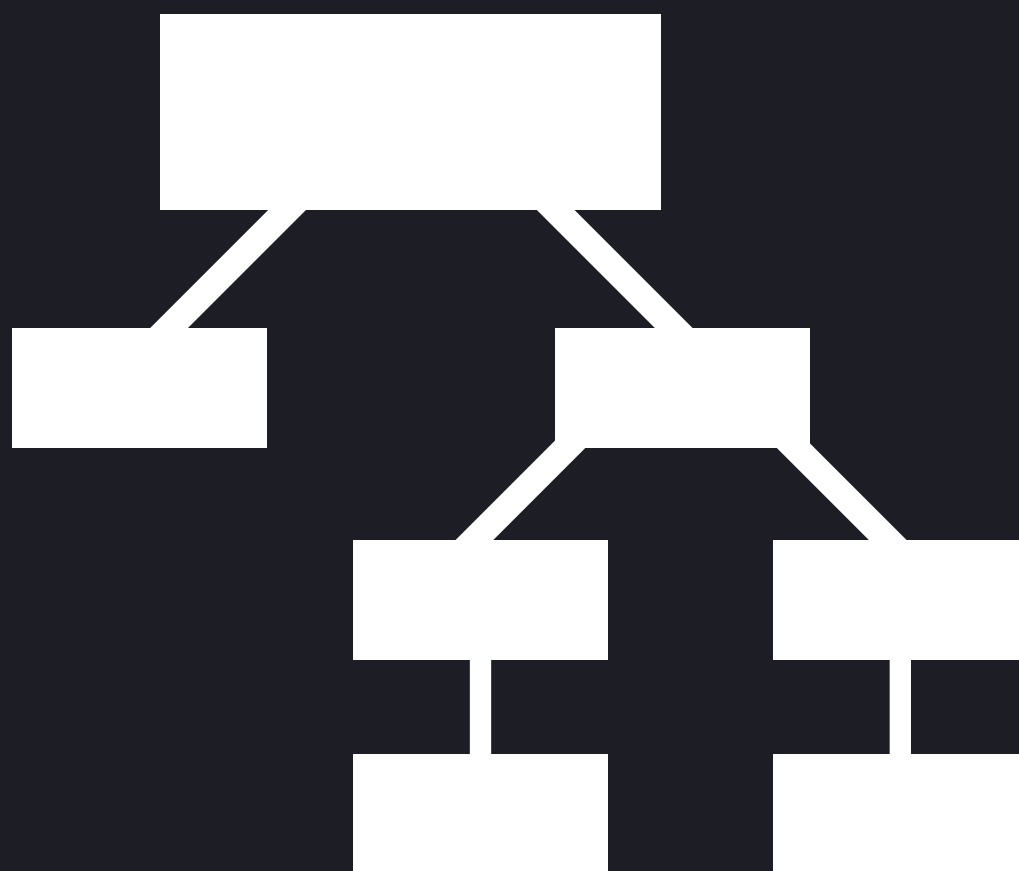
Virtual DOM



FLUJO UNIDIRECCIONAL DE DATOS



Datos



Eventos

JSX

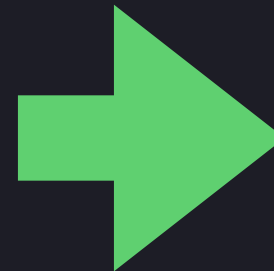
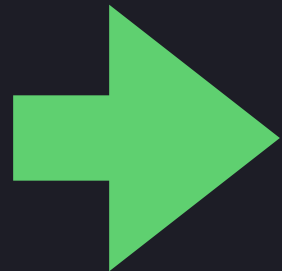
```
<a href="https://xkcd.com/221/" className="xkcd">  
    
</a>
```



```
React.createElement('a', {  
  href: "https://xkcd.com/221/",  
  className: "xkcd"  
},  
  React.createElement('img', {  
    src: "https://imgs.xkcd.com/comics/random_number.png"  
  })  
);
```

COMPONENTES

Props

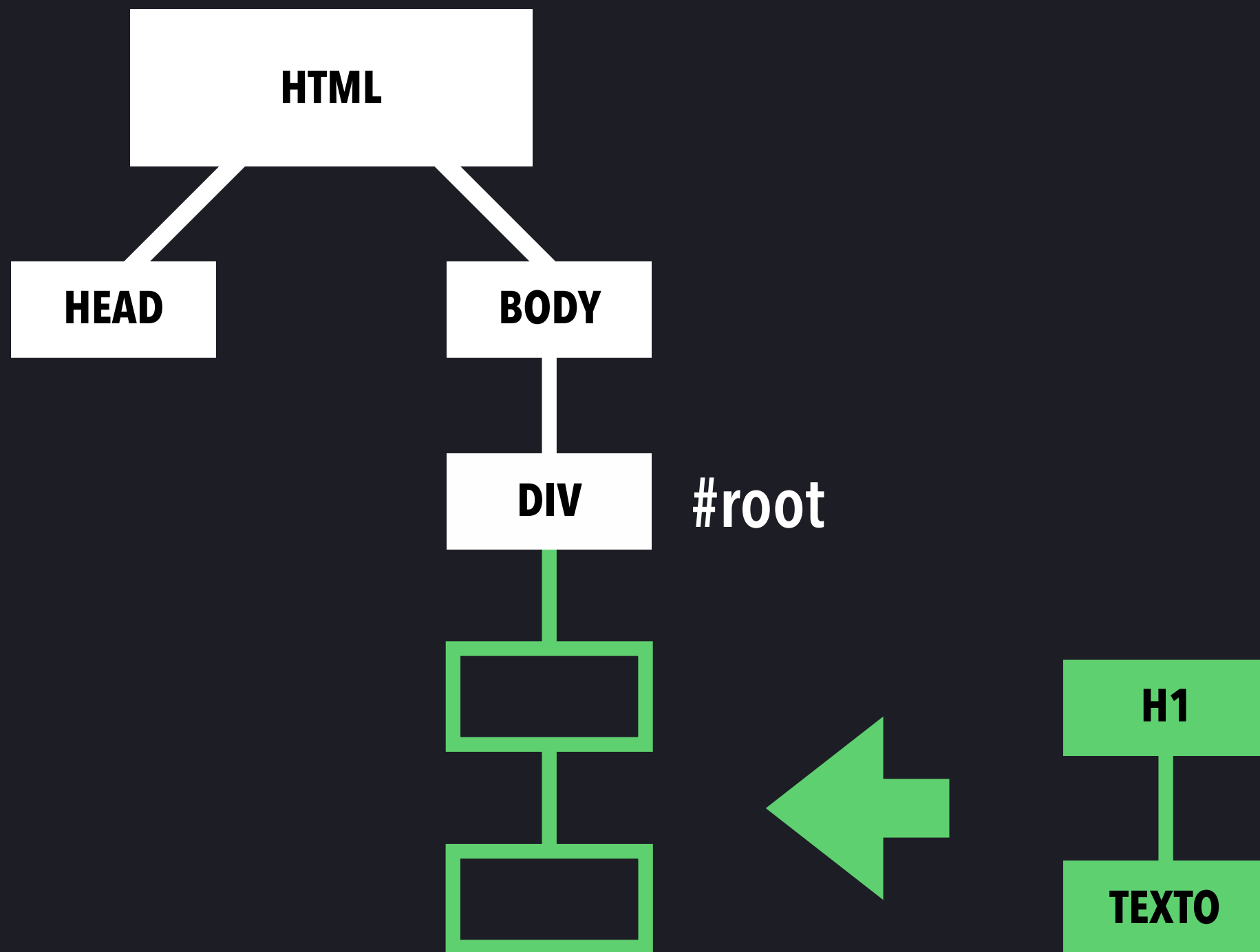


Render

```
import React from 'react';  
import { render } from 'react-dom';  
  
const Message = props => <h1>Hola {props.to}!</h1>;  
  
render(<Message to="mundo" />, document.getElementById('root'));
```



Hola mundo!



```
import React, { Component } from 'react';
import { render } from 'react-dom';

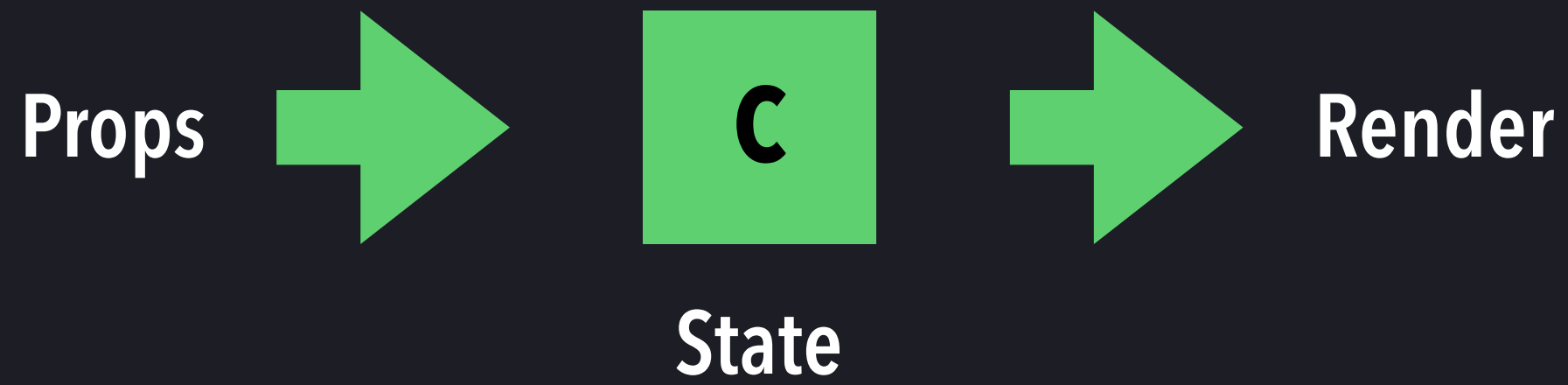
class Message extends Component {
  constructor(props) {
    super(props);
  }

  render() {
    return <h1>Hola {props.to}!</h1>;
  }
}

render(<Message to="mundo" />, document.getElementById('root'));
```



Hola mundo!




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

class Counter extends Component {
  constructor(props) {
    super(props);

    this.increment = this.increment.bind(this);

    this.state = {
      count: 0
    };
  }

  increment() {
    this.setState({ count: this.state.count + 1 });
  }

  render() {
    return (
      <div>
        <button onClick={this.increment}>
          +
        </button>
        <h1>{this.state.count}</h1>
      </div>
    );
  }
}

export default Counter;
```

+

0

CICLO DE VIDA DE LOS COMPONENTES

```

import React, { Component } from 'react';

class Message extends Component {
  constructor(props) {
    super(props);
  }

  componentWillMount() {

  }

  render() {
    return <h1>Hola {props.to}!</h1>;
  }

  componentDidMount() {

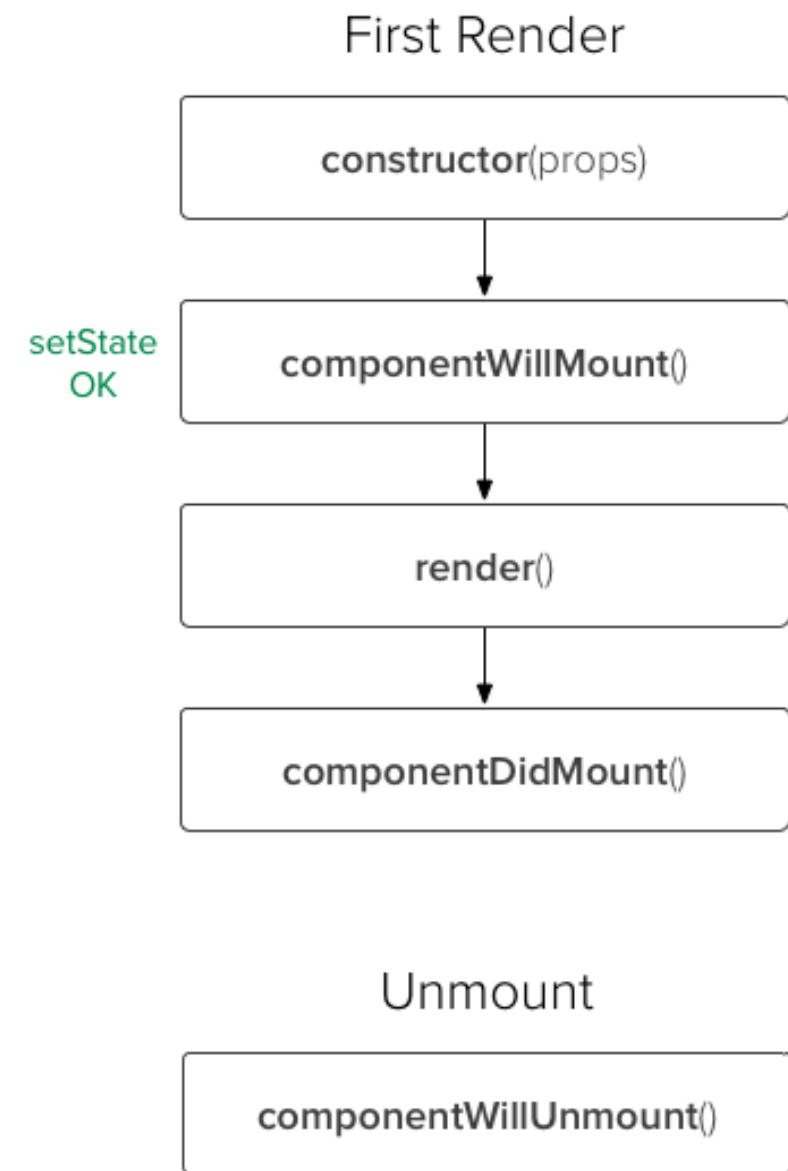
  }

  componentWillUnmount() {

  }
}

export default Message;

```



```

import React, { Component } from 'react';

class Message extends Component {
  componentWillReceiveProps(nextProps) {

  }

  shouldComponentUpdate(nextProps, nextState) {
    return true;
  }

  componentWillUpdate(nextProps, nextState) {

  }

  render() {
    return <h1>Hola {props.to}!</h1>;
  }

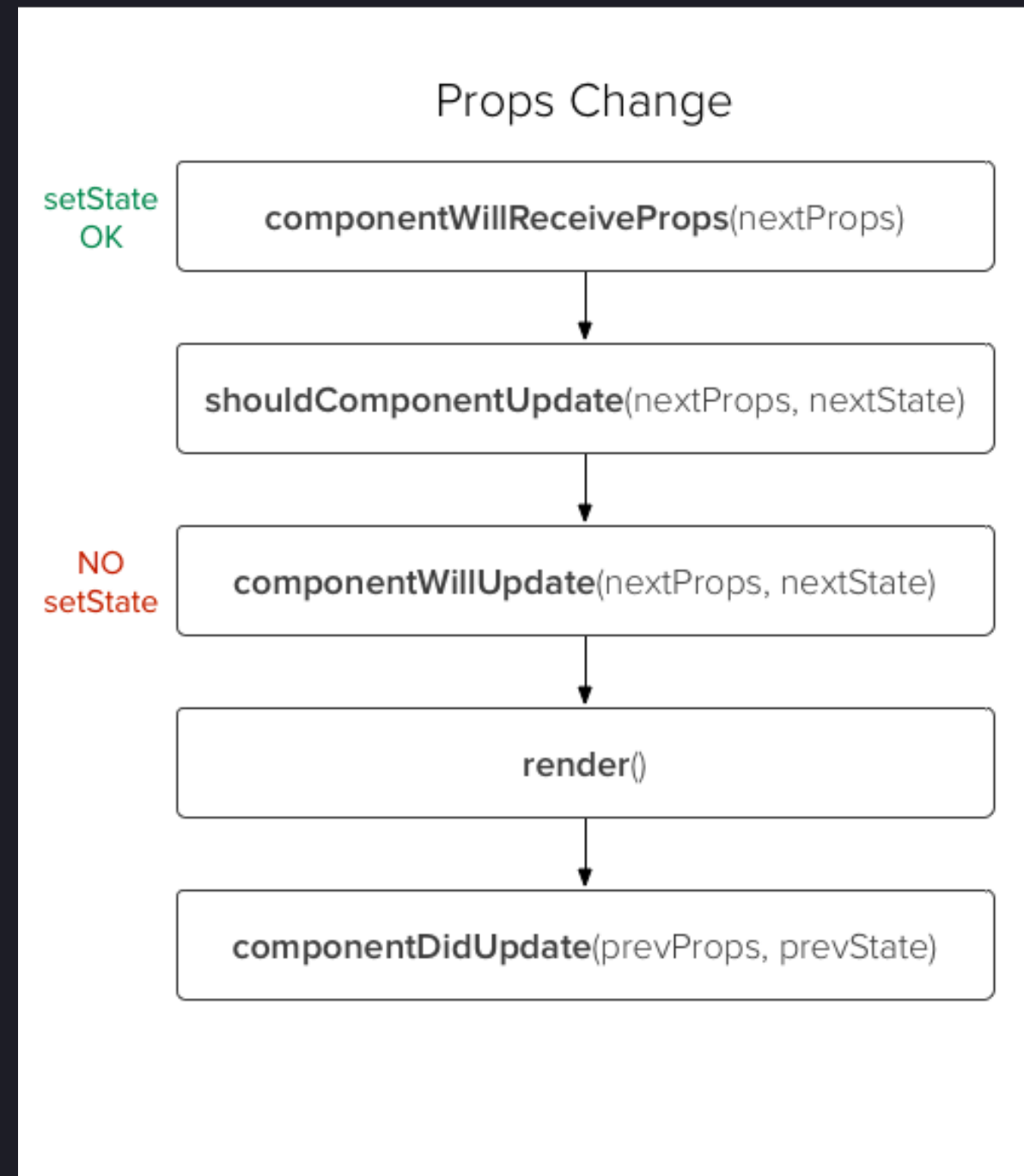
  componentDidUpdate(prevProps, prevState) {

  }

}

export default Message;

```



```

import React, { Component } from 'react';

class Message extends Component {
  shouldComponentUpdate(nextProps, nextState) {
    return true;
  }

  componentWillUpdate(nextProps, nextState) {

  }

  render() {
    return <h1>Hola {props.to}!</h1>;
  }

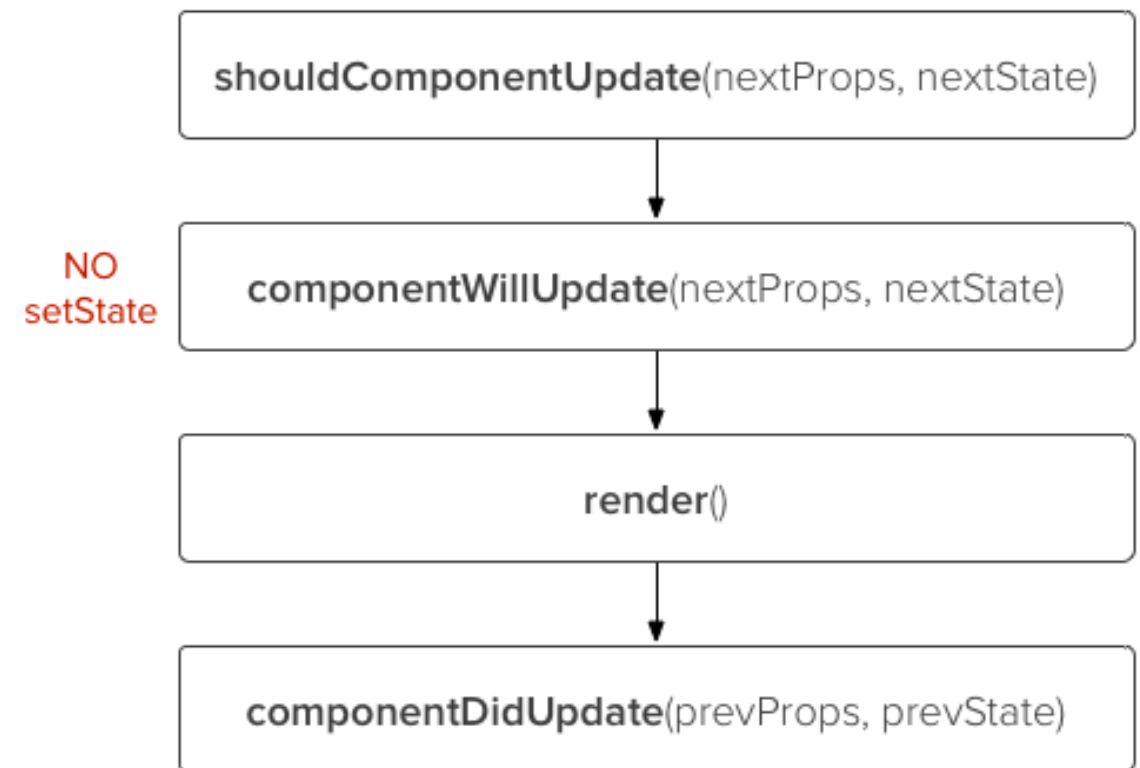
  componentDidUpdate(prevProps, prevState) {

  }
}

export default Message;

```

State Change



React Lifecycle Cheatsheet @pbesh

Cheatsheet by <https://twitter.com/pbesh>

EVENTOS

```
import React, { Component } from 'react';
import { render } from 'react-dom';
import Counter from './Counter';

class App extends Component {
  onCounterChange(value) {
    console.info(value);
  }

  render() {
    return <Counter onChange={this.onCounterChange} />;
  }
}

render(<App />, document.getElementById('root'));
```

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

class Counter extends Component {
  constructor(props) {
    super(props);

    this.increment = this.increment.bind(this);

    this.state = {
      count: 0
    };
  }

  increment() {
    this.setState(
      { count: this.state.count + 1 },
      () => this.props.onChange(this.state.count)
    );
  }

  render() {
    return (
      <div>
        <button onClick={this.increment}>
          +
        </button>
        <h1>{this.state.count}</h1>
      </div>
    );
  }
}

export default Counter;
```


TOOLING

```
import React from 'react';
import { render } from 'react-dom';

const Message = props => <h1>Hola {props.to}!</h1>;

render(<Message to="mundo" />, document.getElementById('root'));
```



BABEL



ES5



Webpack

Create React App build passing

Create React apps with no build configuration.

- [Getting Started](#) – How to create a new app.
- [User Guide](#) – How to develop apps bootstrapped with Create React App.

Create React App works on macOS, Windows, and Linux.


If something doesn't work, please [file an issue](#).

Quick Overview

```
npm install -g create-react-app  
  
create-react-app my-app  
cd my-app/  
npm start
```


Then open <http://localhost:3000/> to see your app.

<https://github.com/facebookincubator/create-react-app>



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Fiddle Author
**reactjs**

Fiddle Meta

External Resources2

AJAX Requests

Legal, Credits and Links

[JSFiddle Roadmap](#)
suggest and vote for features

1

HTML

<div id="container">
2<!-- This element's contents will be replaced with
your component. -->
3</div>
4

1

CSS

1

BABEL + JSX

class Hello extends React.Component {
2render() {
3return <div>Hello {this.props.name}</div>;
4}
5}
6
7ReactDOM.render(
8<Hello name="World" />,
9document.getElementById('container')
10);

Hello World

<https://jsfiddle.net/reactjs/69z2wepo>

> ♥ 🔗 📁 ☁ ⚠ ↻

/index.js

Prettify

Save

```
1 import React from 'react';
2 import { render } from 'react-dom';
3
4 const styles = {
5   display: 'flex',
6   justifyContent: 'center'
7 };
8
9 const Message = props => (
10   <div style={styles}>
11     <h1>Hola {props.to}!</h1>
12   </div>
13 );
14
15 render(<Message to="mundo" />, document.getElementById('root'));
```

< > ↻

https://zknpl2y6zp.codesandbox.io

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☐

Hola mundo!

<https://codesandbox.io>

¿PREGUNTAS?